Caution! Read Safety and General Instructions carefully before using saw for the first time.

You should record the Serial Number of your Scarifier on this Owner's/Operator's Manual and on the Warranty Card. The Warranty Card must be sent back with all the required pertinent information for the warranty to take effect.

Caution! Read Safety and General Instructions carefully before using saw for the first time.

Made in the U.S.A.
We at PEARL want to congratulate you on selecting the PASG Scarifier. We are certain that you will be pleased with your purchase. PEARL takes pride in producing the finest products in the industry.

Operated correctly, your PASG Scarifier should provide you with years of quality service. In order to help you, we have included this manual. This owners manual contains information necessary to operate and maintain your PASG Scarifier safely and correctly. Please take a few minutes to familiarize yourself with the PASG Scarifier by reading and reviewing this manual.

If you should have questions concerning your PASG Scarifier, please feel free to call our friendly customer service department at: 800-969-5561

Regards,

PEARL

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.
# PASG SCARIFIER TABLE OF CONTENTS

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## ORDERING and RETURN INSTRUCTIONS
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Read and follow all safety, operating and maintenance instructions. Failure to read and follow these instructions could result in injury or death to you or others. Failure to read and follow these instructions could also result in damage and/or reduced equipment life.

SAFETY MESSAGES

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.

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

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

SAFETY PRECAUTIONS

- **ALWAYS** read this Owner’s Manual before operating the machine.
- **ALWAYS** keep the Blade Guard in place.
- **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 PLACES**
- **DO NOT** use power tools in damp or wet locations nor expose them to rain. Always keep the work area well lighted.
KEEP CHILDREN AWAY
All visitors and children should be kept a safe distance from work area.

MAKE THE 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.

USE THE PROPER EXTENSION CORD
If using an extension cord make sure it is in good condition first. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage that will result in a loss of power and overheating. TABLE 1, Page 9 shows the correct AWG size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

USE PROPER APPAREL
DO NOT wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry that may be caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

ALWAYS wear approved eye protection.

ALWAYS wear approved respiratory protection.

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

DISCONNECT TOOLS
Power tools should always be disconnected before servicing or when changing accessories, such as blades, bits, cutters, and the like.
**ALWAYS** place the power ON/OFF switch in the **OFF** position when the saw is not in use.

**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.

**CHECK FOR DAMAGED PARTS**
Before using a power tool, check for damaged part. 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. Always check moving parts for proper alignment or binding. Check for broken parts and 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.

**NEVER LEAVE A TOOL 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.

**CALIFORNIA PROPOSITION 65 MESSAGE**

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

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

For further information, consult the following sources:
http://www.cdc.gov/niosh/consilic.html
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 those dust masks that are specially designed to filter out microscopic particles.
HAZARD SYMBOLS

**ELECTRICAL SHOCK**

*NEVER* touch electrical wires or components while the engine is running. They can be sources of electrical shock which could cause severe injury or burns.

**ROTATING PARTS**

Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate the motor with covers, shrouds, or guards removed.

**OVER SPEED**

*NEVER* tamper with the governor components or settings to increase the maximum speed. Severe personal injury and damage to the engine or equipment can result if operated at speeds above maximum.

**DO NOT EXPOSE TO RAIN**

*DO NOT* expose to rain or use in damp locations.

**WARNING**

Sawing and drilling generates 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).

**WARNING**

ELECTRICAL REQUIREMENTS AND GROUNDING INSTRUCTIONS

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

⚠️ WARNING

In case of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

- Do not modify the plug provided – if it will not fit the outlet; have the proper outlet installed by a qualified electrician.
- Improper connections of the equipment-grounding conductor can result in a risk of electric shock. The equipment-grounding conductor is the insulated conductor that has an outer surface that is green, with or without yellow stripes. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
- Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
- Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
- Repair or replace a damaged or worn cord immediately.

⚠️ WARNING

This tool is intended for use on a circuit that has an outlet that looks like the one shown in Sketch A. The tool has a grounding plug that looks like the plug illustrated in Sketch A. A temporary adapter, which looks like the adapter illustrated in Sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in Sketch B, if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, and the like, extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box.

NOTE: Use of a temporary adapter is not permitted in Canada.
To avoid the possibility of the appliance plug or receptacle getting wet, position the machine to one side of a wall mounted receptacle. This will prevent water from dripping onto the receptacle or plug. A “drip loop,” shown in the picture below, should be arranged by the user to properly position the power cord relative to the power source.

The “drip loop” is that part of the cord below the level of the receptacle, or the connector, if an extension cord is used. This method of positioning the cord prevents the travel of water along the power cord and coming in contact with the receptacle.

If the plug or receptacle gets wet, **DO NOT** unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the tool. Then unplug and examine for presence of water in the receptacle.

### WARNING

Use only extension cords that are intended for outdoor use. These extension cords are identified by a marking “Acceptable for use with outdoor appliances; store indoors while not in use.” Use only extension cords having an electrical rating not less than the rating of the product. Do not use damaged extension cords. Examine extension cords before using and replace if damaged. Do not abuse extension cords and do not yank on any cord to disconnect. Keep cords away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting the product from the extension cord.

### WARNING

To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch the plug with wet hands. Use of under sized extension cords result in low voltage to the motor that can result in motor burnout and premature failure. PEARL warns that equipment returned to us showing signs of being run in a low voltage condition, through the use of undersized extension cords will be repaired or replaced totally at the customer’s expense. There will be no warranty claim.

To choose the proper extension cord,
- Locate the length of extension cord needed in the table below.
- Once the proper length is found, move down the column to obtain the correct AWG size required for that length of extension cord.

### Extension Cord Minimum Gage for Length

<table>
<thead>
<tr>
<th>VOLTS</th>
<th>TOTAL LENGTH OF CORD IN FEET</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>25 ft. AWG</td>
</tr>
<tr>
<td>115V</td>
<td>14</td>
</tr>
<tr>
<td>230V</td>
<td></td>
</tr>
</tbody>
</table>
SAFETY LABEL LOCATIONS:

Safety labels are located according to Figures 1 to 7 below. The labels contain important safety information. Please read the information contained on each safety label. These labels are considered a permanent part of your saw.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>LOCATION</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Operators Console</td>
<td>Scarifier</td>
</tr>
<tr>
<td>2.</td>
<td>Frame, Left Side</td>
<td>Scarifier</td>
</tr>
<tr>
<td>3A.</td>
<td>Engine Mount</td>
<td>Scarifier</td>
</tr>
<tr>
<td>3B.</td>
<td>Engine Mount</td>
<td>Scarifier</td>
</tr>
<tr>
<td>3C.</td>
<td>Engine Mount</td>
<td>Scarifier</td>
</tr>
<tr>
<td>3D.</td>
<td>Engine Mount</td>
<td>Scarifier</td>
</tr>
<tr>
<td>4A.</td>
<td>Tank, Front</td>
<td>Engine</td>
</tr>
<tr>
<td>4B.</td>
<td>Tank, Front</td>
<td>Engine</td>
</tr>
<tr>
<td>5.</td>
<td>Tank, Left Side</td>
<td>Engine</td>
</tr>
<tr>
<td>6A.</td>
<td>Tank, Top</td>
<td>Engine</td>
</tr>
<tr>
<td>6B.</td>
<td>Tank, Top</td>
<td>Engine</td>
</tr>
<tr>
<td>6C.</td>
<td>Tank, Top</td>
<td>Engine</td>
</tr>
<tr>
<td>6D.</td>
<td>Tank, Top</td>
<td>Engine</td>
</tr>
<tr>
<td>7.</td>
<td>Air Filter Cover</td>
<td>Air Filter Service Information</td>
</tr>
</tbody>
</table>
PASG SCARIFIER SAFETY

PASG-2 SCARIFIER SPECIFIC WARNINGS:

- Read Owners Manual
- Wear Protective Gear for Head, Lungs, Ears and Eyes

PRODUCT SPECIFICATIONS:
The PASG is a versatile Scarifier. Operated and used according to this manual, the PASG Scarifier will provide years of dependable service.

General Description:
The PASG is engineered with an 8” Cutting Drum and reliable 8 horsepower Honda engine. The PASG is designed with fine depth control allowing the operator to make depth adjustments in 1/16-inch increments.

Motor and Weight Specifications:
Motor and Weight specifications for the PASG are listed in Table 2 below.

<table>
<thead>
<tr>
<th>Motor Type</th>
<th>4-stroke, Overhead valve, single cylinder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Power Output</td>
<td>9 Hp</td>
</tr>
<tr>
<td>Max RPM</td>
<td>3600 RPM</td>
</tr>
<tr>
<td>Cutting Drum Speed</td>
<td>2300 RPM</td>
</tr>
<tr>
<td>Fuel Tank Capacity</td>
<td>1.59 Gallons (6.0 Liters)</td>
</tr>
<tr>
<td>Engine Oil Capacity</td>
<td>1.16 Quarts (1.1 Liters)</td>
</tr>
<tr>
<td>Weight</td>
<td>185 lbs.*</td>
</tr>
</tbody>
</table>

Table 2

Drum Capacity:
The PASG uses a 6-inch diameter 8-inch long cutting drum with 6 hardened steel shafts that will accommodate the most common cutting discs.

Scarifier Usage:
The PASG is designed to grind surfaces, remove old coatings, prepare surfaces before applying new coatings, roughen surfaces, groove surfaces and slot surfaces.

Features:
- Conveniently placed engine controls for ease of usage
- Engage/Disengage Lever allowing the operator to raise or lower the cutting drum without changing the cutting depth setting
- Ergonomically designed handlebar to reduce operator fatigue
- Poly micro V-belt to ensure maximum power transfer from the engine to the cutting drum

* Without the Cutting Drum installed.
UNPACKING:
Your PASG has been shipped from the factory thoroughly inspected. Only minimal assembly is required.

If not already done, remove the PASG from the pallet and place it on a flat surface (lift the scarifier using the lifting points shown below).

CONTENTS:
In the containers, you will find one (1) PASG, one (1) cutting drum, one (1) owner’s manual, and one (1) Honda owner’s manual.

TRANSPORT:

1. The PASG weighs approximately one hundred and eighty-five (185) pounds (with the Cutting Drum assembled the scarifier weighs approximately 230 pounds), use care when transporting.
2. Two people are required to transport the PASG.

To lift the scarifier, each person will stand on opposite sides of the PASG and grasp the rear Handlebar and the front Handle/Stand to lift, as shown below.
ASSEMBLY:
Follow the assembly instructions to prepare your PASG for operation.

Handlebar Adjustment:
Adjust the Handlebar for ease of operation and comfort of the user.

(A) Locate the Handlebar retaining bolts

(B) Remove the Retaining Bolts using 9/16 wrenches and/or sockets

(C) Raise or lower the Handlebar as needed

(D) Align one set of Retaining Bolt holes in the Handlebar to the holes in Scarifier Frame

(E) Install the Retaining Bolts and tighten using 9/16 wrenches and/or sockets
CUTTING DRUM ASSEMBLY:

Because the Cutting Drum assembly is a complex process, the assembly procedure will be broken into several parts.

Cutting Drum Removal:

(A) Rotate the PASG to rest on the Handle/Stand

(B) Locate the Shaft Cover, Retaining Bolts

(C) Remove the Shaft Cover, Rear Retaining Bolt and loosen the Front Retaining Bolt using 9/16 wrenches and/or sockets

(D) Pivot the Shaft Cover to expose the end of the Cutting Drum Shaft

(E) Remove the Shaft, Retaining Nut Cover from the Belt Guard to expose the Shaft, Retaining Nuts

(F) Using a 15/16-inch socket, loosen the Outer Shaft, Retaining Nut

(G) Place an Index Finger on the end of the Cutting Drum, Shaft

(H) Remove the Outer Shaft, Retaining Nut using your Middle Finger as shown

(I) Repeat Step H for the Inner Shaft, Retaining Nut

NOTE: Use care when removing the Shaft, Retaining Nuts to prevent the Retaining Nuts from falling inside the Belt Guard.
(J) Grasp the Cutting Drum as shown

(K) Push the Cutting Drum away from the belt side of the PASG to loosen the Shaft

(L) Place a rod in the hole on the end of the Shaft, and while holding the Cutting Drum, remove the Shaft

(M) Remove the Cutting Drum and Shaft from the PASG
CUTTING DRUM DISASSEMBLY:

NOTE: The Cutting Drum may be disassembled from either end.

(A) Rotate the Cutting Drum onto either end and locate the Retaining Ring, Retaining Screws

(B) Remove the 3 Retaining Screws using a 7/16-inch wrench

(C) Remove the Drum Retaining Ring

(D) If present, remove the three Flat Washer Spacers

(E) Place the Retaining Ring and Flat Washer Spacers in a secure location
CUTTING DRUM ASSEMBLY:

NOTE: The Cutting Drum may be disassembled from either end.

(A) Pull the Cutting Disc Shafts out the open side of the Cutting Drum as shown.

(B) Assemble the Cutting Drum using Cutting Discs and Disc Spacers (See Cutting Drum Configuration).

(C) Continue with Step B until the Cutting Drum assembly is complete.

(D) Place the Cutting Drum on the closed end, with the open end facing upward.

(E) Obtain the Retaining Ring and Flat Washer Spacers.

(F) Install the 3 Flat Washer Spacers (if used) over the 3 Retaining Ring, Retaining Screw holes.

(G) Place the Retaining Ring onto the end of the Cutting Drum, aligning the Retaining Screw Holes.

(H) Install the 3 Retaining Screws into the Cutting Drum (do not cross-thread the screws).

(I) Tighten the 3 Retaining Screws using a 7/16-inch wrench.
CUTTING DRUM INSTALLATION:

NOTE: The Cutting Drum may be disassembled from either end.

(A) Install the Cutting Drum into the PASG; align the Cutting Drum with the Shaft-side Bearing and install the Cutting Drum, Shaft

(B) Verify the Cutting Drum and Shaft are fully installed and seated

(C) Install the Shaft, Inner Retaining Nut

(D) Using a 15/16-inch socket tighten the Shaft, Inner Retaining Nut

(E) Obtain the Shaft, Outer Retaining Nut

(F) Install the Shaft, Outer Retaining Nut

(G) Using a 15/16-inch socket tighten the Shaft, Outer Retaining Nut

(H) Install the Shaft, Retaining Nut Cover onto the Belt Guard

(I) Pivot the Shaft Guard Cover into position and install the Rear Retaining Bolt
Tighten the Shaft Guard
Cover Retaining Bolts
using 9/16 wrenches and/
or sockets

FILLING OIL RESERVOIR:

NOTE: SAE 10W-30 is recommended for general use in temperatures of –4°F (20°C) and above. If you are operating outside of this range, consult the chart in this manual. Engine Oil Capacity is 1.16 US qt (1.1l).

(A) Rotate the PASG upright
(B) Remove Dipstick
(C) Fill Oil Reservoir

NOTE: When installing the Oil Dipstick, ensure the threads are aligned with the threads of the Oil Reservoir so as not to “cross-thread” the dipstick.

(D) Add Oil until level reaches the bottom edge of fill hole
(E) Install Dipstick
(F) Clean up excess oil
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. Refuel in a well-ventilated area.
4. Keep gasoline away from appliance pilot lights, barbecues, 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.
3. Use unleaded gasoline with a pump octane rating of 86 or higher.

- **(A)** Remove the Fuel Cap
- **(B)** Fill Fuel Tank
- **(C)** Verify fuel level is below the throat of the Fuel Tank
- **(D)** Install the Fuel Cap
VACUUM SETUP FOR OPERATION:

The PASG Scarifier is designed for use with a vacuum. PEARL recommends using the PASG with a vacuum to reduce the amount of dust generated during operation.

PEARL does not endorse any specific vacuum type, but does recommend the customer use the PASG with a dry dust collector (designed for wood dust) as opposed to a standard wet/dry vacuum.

(A) Obtain a vacuum of the type specified above

(B) Remove the Cap from the Vacuum Connection Point

(C) Using a 2 1/2-inch hose, connect the Vacuum to the PASG at the Vacuum Connection Point

(D) Verify the hose connections are secure at the PASG and the Vacuum
Pre-start Inspection:
The pre-start inspection should be performed before beginning any job. If Cutting Discs are worn, or are missing carbide inserts (carbide cutting discs only), replace the discs before starting work.

NOTE: The carbide tips on carbide cutting discs are approximately 1/4-inch in length. When the carbide disc is worn to the end of the carbide tip, the tip may fall out leaving a small hole.

(A) Inspect the Cutting Discs for excessive wear and missing tips

(B) Inspect Engine for leaks

(C) Inspect the PASG for general damage and/or loose hardware

(D) Verify the Height Adjusting Wheel moves freely and the PASG moves up and down smoothly

(E) Verify the PASG rolls freely

(F) Check for proper oil level (See Maintenance section if low)

(G) Check for proper fuel level (See Maintenance section if low)

(H) Check Air Filter for cleanliness (See Maintenance section if dirty)
STARTUP:

**WARNING** 1. Carbon monoxide gas is toxic breathing it can cause unconsciousness and/or death.
2. Avoid any areas or actions that expose you to carbon monoxide.

**NOTE:** If restarting a warm engine leave the Choke Lever in the **OPEN** position.

(A) Verify the Engage/Disengage Lever is in the “Lift” position

(B) Raise the Cutting Drum to the highest position

(C) Place Fuel Valve in the ON position

(D) Place Choke Lever in the CLOSED position

(E) Move the Throttle Lever to 1/3rd open

(F) Place Engine Switch in the ON position

(G) Pull Starter Cord slowly, until slack is removed and resistance is felt

(H) Pull Starter Cord straight back in a smooth fast motion

(I) Place Choke Lever in the OPEN position when engine is warm
The PASG is capable of performing several different operations simply by changing drum configuration. The following steps describe how the PASG is operated in any configuration:

(A) Start the PASG in accordance with Engine Start, Step 1 of the STARTUP section

(B) Raise the Cutting Drum to the highest position

(C) Place the Engage/Disengage Lever in the “Lower” position

(D) Adjust the height of the Cutting Drum for the Job being performed (See Basic Grinding Techniques)

(E) Locate the Vibration Lock

(F) Lock the height of the drum using the Vibration Lock

(H) Push the PASG at a smooth, even pace to perform the cut

(I) Place the Engage/Disengage Lever in the “Lift” when the cut is complete

NOTE: When turning the PASG, lift the Rear Wheels off the ground, and pivot the PASG on the Front Wheels.
BASIC GRINDING TECHNIQUES:

NOTE: The Height Adjustment Hand-wheel will adjust the depth (up or down) of the Cutting Drum by 1/16 of an inch per turn.

Leveling a Surface:
A) Configure the Cutting Drum for Grooving
B) Locate the lowest spot and highest spot on the surface
C) Adjust the height of the Cutting Drum to remove approximately 1/16 of an inch from the High spot
D) Set the Vibration Lock
E) Move the PASG in a smooth forward motion.
F) When the Cutting Discs are no longer contacting the surface, return the PASG to the starting position
G) Repeat Steps A through E until the Surface is level (See Figure 1)

![Figure 1](image1)

Cutting / Grooving a Surface:
A) Configure the Cutting Drum for Grooving
B) Adjust the Cutting Drum Depth until the SG-2 is cutting grooves approximately 1/8 of an inch
C) Move the PASG in a smooth forward motion
D) Should the Cutting Discs loose contact with the surface, repeat Step B and continue forward motion
E) Repeat Steps A through D until the desired number of grooves are cut (See Figure 2)

![Figure 2](image2)
Roughening or Preparing a Surface:
A) Configure the Cutting Drum for Grooving
B) Adjust the Cutting Drum Depth until the Cutting Discs are contacting the surface (increase the depth of the Cutting Drum as necessary to increase the “roughness of the surface”
C) Move the PASG in a smooth forward motion
D) Should the Cutting Discs loose contact with the surface, repeat Step B and continue forward motion
E) Repeat Steps A through D until the desired number of grooves are cut (See Figure 3)

Cutting Drum Configurations:
The following Cutting Drum configurations allow the user to set up the PASG Cutting Drum for the most commonly used configurations.
**SHUTDOWN:**

**Normal Engine Shutdown:**

- **(A)** Verify the Engage/Disengage Lever is in the “Lift” position
- **(B)** Raise the Cutting Drum to the highest position
- **(C)** Move the Throttle Lever to lower blade speed
- **(D)** Place Engine Master Switch in the OFF position
- **(E)** Place Fuel Valve in the OFF position

**Emergency Engine Shutdown:**

- **(A)** Place Engine Master Switch in the OFF position
- **(B)** Move the Throttle Lever to lower blade speed
- **(C)** Place Fuel Valve in the OFF position
- **(D)** Verify the Engage/Disengage Lever is in the “Lift” position
- **(E)** Raise the Cutting Drum to the highest position
CLEANUP:
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 scarifier should be cleaned following every use.  
2. Using a garden hose or pressure washer can force water into the air cleaner or muffler opening.  
3. Use care when cleaning around electrical components.

A) Clean the PASG with soap and water  
B) Verify the engine is off and cool before beginning to clean  
C) Clean around the Depth Control Wheel bearing  
D) Clean the Depth Control Screw  
E) Clean the remainder of the exterior surface of the scarifier (except the engine)  
F) Clean engine throttle linkage with a dry cloth  
G) Remove the Cutting Drum (See Setup Section)  
H) Clean the Shaft Penetration Hole of the Cutting Drum  
I) Clean the Cutting Drum, Shaft
MAINTENANCE:

New Maintenance:
Perform the following after initial purchase and operation of the saw.

(A) Change engine oil after 1st month or 1st 20 operating hours (See Engine Oil Change)

(B) Check and adjust tension on all V-belts following 1st 48 hours of operation (See V-belt Inspection)

Maintenance Following Use:
The following maintenance should be performed following each use. Use Light oil, such as WD-40 or 3 in 1 when lubricating parts.

NOTE: Due to the material used in the Cutting Drum and Shaft, it is critical that Steps C and D be performed.

(A) Shutdown the Engine (See Normal Engine Shutdown)

(b) Check Air Filter for cleanliness (See Maintenance section if dirty)

(c) Clean engine throttle linkage with a dry cloth

(D) Lubricate the Cutting Drum Shaft cleaned in Step I of the Cleanup Section

(E) Reinstall the Cutting Drum into the PASG

(F) Lubricate the outer surface of the Cutting Drum
Lubricate the Front Wheel Assembly

Lubricate the Rear Wheel Assembly

Lubricate the Engage/Disengage Pivot Shaft

Lubricate the Depth Control Screw

Reinstall engine Throttle Linkage

Monthly Maintenance:
The following should be performed monthly. Items should be lubricated using a waterproof grease.

Verify the tightness of all bolts and screws found on the PASG

Lubricate the Height Adjusting Wheel Bearing

Lubricate the Depth Control Screw

Lubricate the Cutting Drum, Shaft Bearings

Lubricate the Front Wheel Assembly Bearings

Clean engine Air Filter (See Engine Air Filter Inspection Cleaning and Replacement)
Six (6) Month Maintenance:
Perform the following maintenance every six months.

(A) Change engine oil
(See Engine Oil Change)

(B) Clean Fuel Sediment Cup
(See Fuel Sediment Cup Cleaning)

(C) Clean and Readjust engine Spark Plug
(See Spark Plug Adjustment and Replacement)

Yearly and Two-Year Maintenance:
Perform the following maintenance every year.

(A) Replace engine Air Filter
(See Engine Air Filter Inspection Cleaning and Replacement)

(B) Replace Spark Plug
(See Spark Plug Adjustment and Replacement)

(C) Inspect V-belts
(See V-Belt Inspection, Adjustment and Replacement)

(D) Check/Adjust Idle Speed
Check/Adjust Valve Clearance
(Shop Maintenance Required)

(E) Check Fuel Line
(2-Year Maintenance Only, Shop Maintenance Required)
Check Fuel Level:

**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, barbecues, 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.
3. Use unleaded gasoline with a pump octane rating of 86 or higher.

(A) Remove Fuel Cap
(B) Fill Fuel Tank
(C) Verify fuel level is below the throat of the Fuel Tank
(D) Install Fuel Cap
Checking Oil Level:

**NOTE:**
1. Engine Oil Capacity is 1.16 US qt (1.1 l).
2. When installing the Oil Dipstick, ensure the threads are aligned with the threads of the Oil Reservoir so as not to “cross-thread.”

(A) Replace engine Air Filter  
(See Engine Air Filter Inspection Cleaning and Replacement)

(B) Replace Spark Plug  
(See Spark Plug Adjustment and Replacement)

(C) Inspect V-belts  
(See V-Belt Inspection, Adjustment and Replacement)

(D) Fill Oil Reservoir

(E) Add Oil until level reaches The bottom edge of fill hole

(F) Install Dipstick

(G) Clean up excess oil
Changing Oil:
Oil is a major factor affecting performance and service life. Use 4-stroke automotive detergent oil.

SAE 10W-30 is recommended for general use. Other viscosity oil shown in the chart below may be used when the average temperature in your area is within the recommended range.

**NOTE:**
1. Drain used oil while the engine is warm.
2. Conform to Federal, State and Local laws, codes and ordinances relative to environmental protection for oil disposal.

(A)  Lower the PASG to its lowest position

(B)  Free the Oil Drain Line

(C)  Place a catch basin below the Oil Drain Line and remove the Drain Cap using two 1/2 –inch wrenches

(D)  Drain Oil the engine oil (conform to Federal, State and Local laws for disposal

(E)  Using two 1/2 – inch wrenches, install the Drain Cap onto the Oil Drain Line (Ensure the Cap is tight)

(F)  Fill the Oil Reservoir (See Checking Oil Level for filling instructions)
ENGINE AIR FILTER INSPECTION CLEANING AND REPLACEMENT:

(A) Remove the Air Filter Cover

(B) Remove the Dual Air Filter

(C) Separate the outer Foam Filter from the inner Paper Filter

(D) Clean the Foam Filter with warm soapy water – allow to air dry

(E) Dip the Foam Filter in clean engine oil – Squeeze out excess oil

(F) Inspect Paper Filter, tap on hard surface to clean or use 30psi air (direct air inside filter to clean)

(G) Remove the 3 Cyclone Filter Assembly retaining screws

(H) Remove the Cyclone Filter Assembly from the Air Filter Cover

(I) Separate the Air Guide from the Cyclone Housing and clean using soap and water
(J) Clean the Air Filter Base
DO NOT allow dirt to enter the carburetor intake

(K) Install the Foam Filter over the Paper Filter

(L) Install the Dual Air Filter

(M) Install the Air Guide into the Cyclone Housing

(N) Install the Cyclone Filter Assembly into the Air Filter Cover

(O) Install the 3 Cyclone Filter Assembly retaining screws

(P) Install the Air Filter Cover
Cutting Drum Change-out:

**WARNING** Disconnect the tool before servicing and when changing accessories, such as blades, bits, cutters, and the like.

(A) Remove the Shaft Cover, Rear Retaining Bolt and loosen the Front Retaining Bolt using 9/16 wrenches and/or sockets

(B) Remove the Shaft, Retaining Nut Cover from the Belt Guard to expose the Shaft, Retaining Nuts

(C) Using a 15/16-inch socket, loosen the Outer Shaft, Retaining Nut

(D) Place an Index Finger on the end of the Cutting Drum, Shaft

(E) Remove the Outer Shaft, Retaining Nut using your Middle Finger as shown

(F) Repeat Step C through E for the Inner Shaft, Retaining Nut

(G) Remove the Cutting Drum and Shaft

(H) Reconfigure the Cutting Drum as needed

(I) Install the Cutting Drum into the PASG; align the Cutting Drum with the Shaft-side Bearing and install the Cutting Drum, Shaft
(J) Verify the Cutting Drum and Shaft are fully installed and seated

(K) Install the Shaft, Inner Retaining Nut

(L) Using a 15/16-inch socket tighten the Shaft, Inner Retaining Nut

(M) Obtain the Shaft, Outer Retaining Nut

(N) Install the Shaft, Outer Retaining Nut

(O) Using a 15/16-inch socket tighten the Shaft, Outer Retaining Nut

(P) Install the Shaft, Retaining Nut Cover onto the Belt Guard

(Q) Pivot the Shaft Guard Cover into position and install the Rear Retaining Bolt

(R) Tighten the Shaft Guard Cover Retaining Bolts using 9/16 wrenches and/or sockets
Reconfigure the Cutting Drum:

(A) Remove the Cutting Drum from the PASG (See Cutting Drum Change-out)

(B) Place the Cutting Drum on end and remove the 3 Retaining Screws using a 7/16-inch wrench

(C) Remove the Retaining Ring from the Cutting Drum

(D) If present, remove the three Flat Washer Spacers

(E) Place the Retaining Ring and the 3 Flat Washer Spacers in a secure location

(F) Pull the Cutting Disc Shafts and remove the Cutting Discs and Disc Spacers

(G) Assemble the Cutting Drum using Cutting Discs and Disc Spacers (See Cutting Drum Configuration)

(H) Continue with Step B until the Cutting Drum assembly is complete

(I) Place the Cutting Drum on the closed end, with the open end facing upward
(J) Obtain the Retaining Ring and Flat Washer Spacers

(K) Install the 3 Flat Washer Spacers (if used) over the 3 Retaining Ring, Retaining Screw holes

(L) Place the Retaining Ring onto the end of the Cutting Drum, aligning the Retaining Screw Holes

(M) Install the 3 Retaining Screws into the Cutting Drum (do not cross-thread the screws)

(N) Tighten the 3 Retaining Screws using a 7/16-inch wrench

(O) Install the Cutting Drum into the PASG; (See Cutting Drum Change-out)
Fuel Sediment Cup Cleaning:

**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, barbecues, electric appliances, power tools, etc.
5. Wipe up spills immediately.

**NOTE:**

1. Conform to Federal, State and Local laws for the proper disposal of fuel.
2. 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.
3. **DO NOT** use stale or contaminated gasoline or an oil/gasoline mixture.
4. An OSHA approved ladder is recommended when fueling the saw.
5. When installing the Sediment Cup retaining bolt, ensure the threads of the bolt are aligned with the threads on the Fuel Valve so as not to “cross-thread the nut.”

(A) Place Fuel Valve in the OFF position

(B) Loosen the Fuel Sediment Cup

(C) Remove the Fuel Sediment Cup (The Fuel Sediment Cup will contain fuel)

(D) Clean Fuel Sediment Cup using a nonflammable solvent – allow Sediment Cup to dry

(E) Reinstall and tighten the Fuel Sediment Cup
Spark Plug Adjustment and Replacement:

**CAUTION** DO NOT work around the engine while hot.

**NOTE:**
1. Recommended spark plugs are: NGK – BPR6ES or DENSO – W20EPR-U
2. When installing the Spark Plug, ensure the threads of the are aligned with the threads in the engine so as not to "cross-thread" the plug.

(A) Remove the Air Filter for easier access to the Spark Plug (See Air Filter Cleaning and Replacement)

(B) Remove Spark Plug Cap clean cap and around spark plug

(C) Remove the Spark Plug using a 13/16-inch Spark Plug Socket

(D) Inspect Spark Plug if worn replace Spark Plug and go to step E

(E) Clean with a wire brush and re-gap the Spark Plug

(F) Install the Spark Plug by Hand DO NOT cross-thread the Spark Plug

(G) Tighten the Spark Plug If new, tighten 1/2-turn, if old, tighten 1/8-1/4 turn using a 13/16-inch Spark Plug Socket

(H) Install the Spark Plug Cap verify the Spark Plug Cap is seated

(I) Install the Air Filter (See Air Filter Cleaning and Replacement)
Dust Screen Brush Change Out:

**NOTE:** The four (4) Brushes should be replaced at the same time (PEARL Part # 15819).

(A) Inspect the Dust Screen Brushes for wear

(B) Loosen the end of each Brush Holder with a Flat Blade Screwdriver

(C) Slide each Brush out of its Brush Holder

(D) Obtain Replacement Brushes

(E) Slide the new Brushes into the Brush Holders

(F) Pinch the end of the Brush Holders to hold each Brush in place
Front Wheel Change Out:

**NOTE:** The two (2) Front Wheels should be replaced at the same time (PEARL Part # 138529).

1. **(A)** Rotate the PASG to rest on the Handle/Stand
2. **(B)** Loosen the Retaining Collar of each Wheel using a 5/32-inch Allen Wrench
3. **(C)** Move the Retaining Collars toward the center of the Axle and then slide the Axle out of the PASG
4. **(D)** Obtain 2 replacement Wheels and remove the Dust Cover from one side of each Wheel
5. **(E)** Seat the Front Wheels into the Wheel-well with the Dust Cover side facing inward
6. **(F)** Slide the Axle through one Wheel, Install the 2 Retaining Collars and then slide the Axle through the second Wheel
7. **(G)** Push the Retaining Collars against the Front Wheels and then tighten them with a 5/32-inch Allen Wrench
Rear Wheel Change Out:

**NOTE:** The two (2) Rear Wheels should be replaced at the same time (PEARL Part # 158520).

(A) Rotate the PASG to rest on the Handle/Stand

(B) Locate the Rear Wheel Truck Assembly

(C) Remove the Rear Wheel Truck Assembly Retaining Nuts using 3/4-inch wrenches

(D) Remove the Rear Wheel Truck Assembly Retaining Bolts

(E) Lower the Rear Wheel Truck Assembly

(F) Remove the Rear Wheel Retaining Cotter Pin, Shim Washer and Rear Wheel from each side of the Assembly

(G) Obtain replacement wheels

(H) Install the new Rear Wheel, Shim Washer and Cotter Pin on each side of the Assembly

(I) Install the Rear Wheel Truck Assembly Retaining Nuts and Bolts removed in Steps C and D using 3/4-inch wrenches
V-Belt Inspection, Adjustment and Replacement:
In order to ensure the PASG operates at peak efficiency, the power transmission V-belt should be inspected monthly and changed if any signs of damage and/or excessive wear is observed.

**NOTE:** When a new belt is installed, it should be inspected and re-tensioned after the first forty-eight (48) hours of operation.

(A) Remove the Cutting Drum (See Cutting Drum Change-out, Section 10)

(B) Locate and remove the Belt Guard Retaining Screws using a 9/16-wrench

(C) Remove the Belt Guard

(D) Inspect the V-belt for excessive wear, cracks and cuts – if worn, proceed to step F

(E) Check V-belt for proper tension if tension correct, go to step O (proper tension is 1/2-inch deflection of the belt)

(F) Locate the Engine Mounting Plate Bolts on both sides of the PASG

(G) Loosen the Front Engine Mounting Plate Bolts on both sides of the PASG using a 9/16-inch wrench

(H) Loosen the Rear Engine Mounting Plate Bolts on both sides of the PASG using a 9/16-inch wrench

(I) Locate the V-belt Adjusting Screw Lock Nut inside the Cutting Drum Well. Loosen the nut using a 9/16-inch wrench
Locate the V-belt Adjusting Screw inside the Cutting Drum Well. Loosen the screw using a 9/16-inch wrench.

Remove the V-belt from the Engine and Cutting Drum Pulleys.

Clean and verify the alignment of the Engine and Cutting Drum Pulleys.

Obtain and install a new V-belt onto the Engine and Cutting Drum Pulleys.

Verify the V-belt is seated in all grooves of the Engine and Cutting Drum Pulleys.

Pull the front of the Engine Mounting Plate away from the PASG Frame to tension the V-belt.

Tighten the V-belt Adjusting Screw one turn using a 9/16-inch wrench.

Verify the tension of the V-belt (proper tension is 1/2-inch deflection of the belt).

Repeat Steps P and Q until proper tension has been reached (proper tension is 1/2-inch deflection of the belt).
(S) Tighten the V-belt Adjusting Screw Lock Nut using a 9/16-inch wrench

(T) Tighten the Engine Mounting Plate Bolts on both sides of the PASG using a 9/16-inch wrench

(U) Install the Belt Guard

(V) Tighten the Belt Guard Retaining Screws using a 9/16-wrench

(W) Install the Cutting Drum into the PASG; (See Cutting Drum Change-out)
## PASG SCARIFIER

### PARTS LIST

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| B    | ASSEMBLY, FRAME |      |         |
| B1   | FRAME WELDMENT (PEARL RED) | 1    | PA58609 |
| BA1  | FRAME WELDMENT (ORANGE) | 1    |         |
| B2   | PLATE, SERIAL NUMBER | 1    | PA57458 |
| B3   | #7 X 5/16 DRIVE SCREW | 4    | PA227214 |
| B4   | CAP, 2"OD VINYL | 1    | PA58914 |
| B5   | LABEL, 1 ¾ X 5” PEARL LOGO | 1    | PA54335 |
| B6   | LABEL, CAUTION, HANDS AND FEET | 1    | PA55585 |
| B7   | LABEL, CAUTION, DO NOT OPERATE WITH GUARDS REMOVED | 1    | PA55587 |

| C    | ASSEMBLY, FRAME DUST SCREEN |      |         |
| C1   | SCREEN, RIGHT SIDE, FRAME DUST | 1    | PA58594 |
| C2   | SCREEN, LEFT SIDE, FRAME DUST | 1    | PA58595 |
| C3   | SCREEN, FRONT / BACK, FRAME DUST | 2    | PA58596 |
| C4   | SCREW, 1/4-20 X 1/2 PAN HEAD PHILLIPS CAP | 4    | PA55452 |
| C5   | SCREW, 1/4-20 X 1/2 FLAT HEAD PHILLIPS CAP | 4    | PA55812 |
| C6   | NUT, 1/4-20 KEPS | 8    | PA53941 |
| C7   | WASHER, 1/4 SAE FLAT | 8    | PA51915 |

| D    | ASSEMBLY, FRONT AXLE |      |         |
| D1   | WHEEL, FRONT, 5 DIA. X 2 | 2    | PA38537 |
| D2   | COLLAR, 3/4 SET | 2    | PA53814 |
| D3   | AXLE, 3/4 DIA. FRONT | 1    | PA58522 |

| E    | ASSEMBLY, TRUCK |      |         |
| E1   | TRUCK, WELDMENT | 1    | PA58099 |
| E2   | WASHER, 3/4 SHIM | ~    | PA53699 |
| E3   | WHEEL, 4 DIA. X 2 | 2    | PA58520 |
| E4   | PIN, COTTER, 1/8 X 1 ½ | 2    | PA53861 |
| E5   | BOLT, 1/2-13 X 4 HEX HEAD TAP | 2    | PA56626 |
| E6   | WASHER, 1/2 SAE FLAT | 4    | PA50924 |
| E7   | NUT, 1/2-13 TOP LOCK, HEX | 2    | PA53943 |

### Notes
- Reference only items are indicated by **REFERENCE ONLY**.
- Parts are listed with their corresponding QTY and PART#.
## MK-SG-2 SCARIFIER  INTRODUCTION

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# PASG SCARIFIER
## INTRODUCTION

| L8 | WASHER, 1/2 SPLIT LOCK | 1 | PA53524 |
| L9 | WASHER, 1/2 SAE FLAT | 1 | PA50924 |
| M1 | ASSEMBLY, ENGINE MOUNT | - | N/A |
| MA1 | ENGINE, MOUNT (PEARL RED) | 1 | PA58101 |
| | ENGINE, MOUNT (ORANGE) | 1 | PA58101-OR |
| M2 | BOLT, 3/8-16 X 1 HEX HEAD CAP | 4 | PA52507 |
| M3 | WASHER, 3/8 SAE FLAT | 9 | PA50923 |
| M4 | WASHER, 3/8 SPLIT LOCK | 3 | PA50925 |
| M5 | NUT, 3/8-16 NYLOCK HEX | 2 | PA52505 |
| M6 | NUT, 3/8-16 HEX | 3 | PA01188 |
| M7 | BOLT, 3/8-16 X 3 HEX HEAD TAP | 1 | PA55830 |
| M8 | LABEL, CAUTION, BELT TENSION | 1 | PA55583 |
| M9 | LABEL, CAUTION, SPARKPLUG | 1 | PA55579 |
| N1 | ASSEMBLY, ENGINE, 9HP HONDA | - | PA55396 |
| N2 | ENGINE, HONDA GX240 9 HP W/ CYCLONE FILTER | 1 | PA55396 |
| N3 | DEFLECTOR, HONDA | 1 | PA55375 |
| N4 | SCREW, 6-32 X 3/8 PAN HEAD PHILLIPS SELF-TAPPING CAP | 3 | PA53466 |
| N5 | PULLEY, 2 ½"OD, POLY-V | 1 | PA58470 |
| N6 | POLLY-V-BELT (350J16) | 1 | PA58469 |
| N7 | NUT, 3/8-16 HEX | 4 | PA01188 |
| N8 | WASHER, 3/8 SPLIT LOCK | 4 | PA50925 |
| N9 | WASHER, 3/8 SAE FLAT | 8 | PA50923 |
| N10 | SCREW, 3/8-16 X 2 HEX HEAD CAP | 4 | PA53485 |
| N11 | PIN, THROTTLE CONTROL | 1 | PA51284 |
| N12 | SCREW, 8-32 X 1/2 PAN HEAD PHILLIPS CAP | 1 | PA52517 |
| N13 | PIN, COTTER, 1/16 X 3/4 | 1 | PA52518 |
| N14 | PLUG, ¾ FLUSH HEAD BUTTON | 1 | PA56615 |
| N15 | OIL DRAIN, M12 X 3/8 PUSH | 1 | PA57577-02 |
| N16 | LABEL, CAUTION, HOT SURFACE, 1.5 X 3.0 | 1 | PA55578 |
| N17 | LABEL, WARNING, REFUELING, 1.5 X 3.0 | 1 | PA55580 |
| N18 | LABEL, DANGER, CALIFORNIA, 1.5 X 3.0 | 1 | PA55581 |
| N19 | LABEL, DANGER, LETHAL EXHAUST, 1.5 X 3.0 | 1 | PA55582 |
| P1 | ASSEMBLY, BELT GUARD | - | N/A |
| PA1 | GUARD, BELT (PEARL RED) | 1 | PA58104 |
| | GUARD, BELT (ORANGE) | 1 | PA58104-OR |
| P2 | SCREW, 3/8-16 X 1 HEX HEAD CAP | 3 | PA52507 |
| P3 | WASHER, 3/8 SAE FLAT | 3 | PA50923 |
| P4 | WASHER, 3/8 SPLIT LOCK | 3 | PA50925 |
| P5 | PLUG, 2" DIA REMOVABLE | 1 | PA58538 |
| P6 | LABEL, CAUTION, BELT TENSION | 1 | PA55583 |
| P7 | LABEL, CAUTION, GUARDS IN PLACE | 1 | PA55587 |

### Parts List

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
<th>PART#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q</td>
<td>ASSEMBLY, SHAFT GUARD</td>
<td>-</td>
<td>N/A</td>
</tr>
</tbody>
</table>
# PASG SCARIFIER

## INTRODUCTION

**Q1**
- GUARD, SHAFT (PEARL RED)
- GUARD, SHAFT (ORANGE)
- 1
- PA58581
- PA58581-OR

**Q2**
- SCREW, 3/8-16 X 1 1/4 HEX HEAD CAP
- 2
- PA50774

**Q3**
- WASHER, 3/8 SAE FLAT
- 4
- PA50923

**Q4**
- WASHER, 3/8 SPLIT LOCK
- 2
- PA50925

**Q5**
- NUT, 3/8-16 HEX
- 2
- PA01188

## ASSEMBLY, DRUM BEARING

**R1**
- HOUSING, BEARING
- 2
- PA58467

**R2**
- BEARING
- 1
- PA58468

**R3**
- BEARING, 1" HEX ID
- 1
- PA60834

**R4**
- SHAFT, PULLEY
- 1
- PA58466

**R5**
- SCREW, 3/8-24 X 3/4 SOC HEAD CAP
- 4
- PA58496

**R6**
- PULLEY, 4.0"OD, POLY-V (16J40 X 1 ¼ BORE)
- 1
- PA58472

**R7**
- SCREW, 3/8-24 X 1 HEX HEAD CAP
- 8
- PA57803

**R8**
- WASHER, 3/8 SAE FLAT
- 8
- PA50923

**R9**
- WASHER, 3/8 SPLIT LOCK
- 8
- PA50925

## ASSEMBLY, 8" DRUM

**S1**
- DRUM, WELDMENT, 8"
- 1
- PA58461

**S2**
- BUSHING, DRUM (.515 ID) OR (33/64 ID)
- 18
- PA58462

**S3**
- SHAFT, 8" HARDEN STEEL
- 6
- PA58463

**S4**
- RING, DRUM RETAINING
- 2
- PA58464

**S5**
- SCREW, 5/16-18 X ¾ TAP,
- 6
- PA51369

**S6**
- WASHER, 5/16 SPLIT LOCK
- 6
- PA51747

**S7**
- WASHER, 5/16 FLAT SAE
- 6
- PA51754

**S8**
- BUSHING, FLANGED (.515 ID) OR (33/64 ID)
- 12
- PA65248

## ASSEMBLY, 8" DRUM, DRIVE SHAFT

**T1**
- SHAFT, 8" DRUM, DRIVE
- 1
- PA58465

**T2**
- NUT, 5/8-11 HEX JAM (LEFT HAND THRED)
- 2
- PA58577

## ASSEMBLY, HANDLEBAR

**U1**
- HANDLEBAR
- 1
- PA58359

**U2**
- HANDGRIP
- 2
- PA50842

**U3**
- SCREW, 3/8-16 X 1 HEX HEAD CAP
- 2
- PA56602

**U4**
- WASHER, 3/8 SPLIT LOCK
- 4
- PA50925

**U5**
- WASHER, 3/8 SAE FLAT
- 4
- PA50923

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**Parts List:**
- GUARD, SHAFT (PEARL RED)
- GUARD, SHAFT (ORANGE)
- SCREW, 3/8-16 X 1 1/4 HEX HEAD CAP
- WASHER, 3/8 SAE FLAT
- WASHER, 3/8 SPLIT LOCK
- NUT, 3/8-16 HEX
- HOUSING, BEARING
- BEARING
- BEARING, 1" HEX ID
- SHAFT, PULLEY
- SCREW, 3/8-24 X 3/4 SOC HEAD CAP
- PULLEY, 4.0"OD, POLY-V (16J40 X 1 ¼ BORE)
- SCREW, 3/8-24 X 1 HEX HEAD CAP
- WASHER, 3/8 SAE FLAT
- WASHER, 3/8 SPLIT LOCK
- DRUM, WELDMENT, 8"
- BUSHING, DRUM (.515 ID) OR (33/64 ID)
- SHAFT, 8" HARDEN STEEL
- RING, DRUM RETAINING
- SCREW, 5/16-18 X ¾ TAP,
- WASHER, 5/16 SPLIT LOCK
- WASHER, 5/16 FLAT SAE
- BUSHING, FLANGED (.515 ID) OR (33/64 ID)
- SHAFT, 8" DRUM, DRIVE
- NUT, 5/8-11 HEX JAM (LEFT HAND THRED)
- HANDLEBAR
- HANDGRIP
- SCREW, 3/8-16 X 1 HEX HEAD CAP
- WASHER, 3/8 SPLIT LOCK
- WASHER, 3/8 SAE FLAT
## OPTIONAL DRUM ASSEMBLIES

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
<th>PART#</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA</td>
<td>ASSEMBLY, 8” DRUM, 78 x 5-POINT CARBIDE STAR</td>
<td>-</td>
<td>PADRUM5</td>
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<tr>
<td>AA2</td>
<td>Star, 5 Point Carbide Tip (1–3/4 OD x 5/8” ID)</td>
<td>78</td>
<td>PASTAR5</td>
</tr>
<tr>
<td>AA3</td>
<td>Spacer, Harden Steel</td>
<td>192</td>
<td>PASTAR0</td>
</tr>
<tr>
<td>BB</td>
<td>ASSEMBLY, 8” DRUM, 78 x 6-POINT CARBIDE STAR</td>
<td>-</td>
<td>PADRUM6</td>
</tr>
<tr>
<td>BB2</td>
<td>Star, 6 Point Carbide Tip (1–3/4 OD x 5/8”ID)</td>
<td>78</td>
<td>PASTAR6</td>
</tr>
<tr>
<td>BB3</td>
<td>Spacer, Harden Steel</td>
<td>192</td>
<td>PASTAR0</td>
</tr>
<tr>
<td>CC</td>
<td>ASSEMBLY, 8” DRUM, 108 x 18 SHARP TOOTH CUTTER</td>
<td>-</td>
<td>PADRUM18</td>
</tr>
<tr>
<td>CC2</td>
<td>Cutter, 18 Sharp Tooth Steel (2” OD x 9/16”ID)</td>
<td>108</td>
<td>PASTAR18</td>
</tr>
<tr>
<td>CC3</td>
<td>Spacer, Harden Steel</td>
<td>234</td>
<td>PASTAR0</td>
</tr>
<tr>
<td>DD</td>
<td>ASSEMBLY, 8” DRUM, 108 x 12 BLUNT TOOTH CUTTER</td>
<td>-</td>
<td>PADRUM12</td>
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<tr>
<td>DD2</td>
<td>Cutter, 12 Blunt Tooth Steel (2” OD x 5/8”ID)</td>
<td>108</td>
<td>PASTAR12</td>
</tr>
<tr>
<td>DD3</td>
<td>Spacer, Harden Steel</td>
<td>234</td>
<td>PASTAR0</td>
</tr>
</tbody>
</table>
THEORY OF SCARIFYING

The purpose of scarifying is to make scratches, superficial incisions or roughen a surface. There are a number of ways in which a concrete surface can be roughened, the advantage of a scarifying machine, is that it allows the user to control the amount of material removed over a large area.

A scarifier can be used to clean, level, roughen, groove, slot, or prepare a concrete surface for coating. The scarifier is able to perform each of these operations by using different types of cutting discs that are setup in different configurations on a cutting drum.

By varying the type of cutting disc and configuration of the cutting drum, a user can:

- Clean a surface of oil, grease, or paint prior to applying a coating or sealer
- Level high spots or misaligned joints
- Remove carpet or tile adhesives as well as paint
- Roughen or create non-slip surfaces
- Slot concrete surfaces for overlays
- Cut safety grooves to minimize slippage

Scarifier cutting discs are either carbide tipped or steel, and are star-shaped in design. Cutting discs may have five or more “points,” and the ends may be round, pointed or blunt depending on application.

Cutting discs designed with carbide inserts tend to be the most commonly used due to their extended life. As the disc is used, more of the carbide insert is exposed until the disc is worn below the bottom of the insert. Once worn below the insert, the disc must be replaced.
### PASG SCARIFIER

#### ACCESSORIES:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
</table>
| 1.   | PASTAR5 | Five Point Carbide Tip Cutting Disc  
Used for grinding, leveling, grooving, cleaning and surface preparation  
Average Life: 6000 to 8000 Sq Ft |
| 2.   | PASTAR6 | Six Point Carbide Tip Cutting Disc  
Used for grinding, leveling, grooving, cleaning and surface preparation  
Average Life: 8000 to 10000 Sq Ft |
| 3.   | PASTAR18| Eighteen Point Sharp Tooth Steel Disc  
Used for roughening, oil removal, carpet and tile adhesive removal, cleaning and surface preparation  
Average Life: 500 to 800 Sq Ft |
| 4.   | PASTAR12| Twelve Point Blunt Tooth Steel Disc  
Used for paint and oil removal, traffic and shop floor safety line removal, cleaning and surface preparation  
Average Life: 500 to 800 Sq Ft |
| 5.   | PASTAR0 | Hardened Steel Spacer  
Used to fill empty space between the Cutting Discs |
ORDERING INFORMATION

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

When ordering direct from PEARL 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 PEARL. A $5.00 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 – 800 969-5561 or 562 927-5561 and asking for Customer Service. For technical questions, call – 800 969-5561.

RETURN MATERIALS POLICY

To expedite the service relative to the return of a product purchased through PEARL, 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 – 800 969-5561 or 562 927-5561 and asking for Customer Service. For technical questions, call – 800 969-5561.

PACKAGING INSTRUCTIONS

• Remove the Cutting Head and Support Angle Assembly
• Dry the saw before shipping
• When packing, include the following: Saw, Diamond Blade, Blade Guard and Support Angle 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 PEARL Customer Service, toll free, at 800 969-5561 or 562 927-5561 for the Authorized Service Center closest to you or visit our web site at www.pearlabrasive.com. For technical questions, call – 800 969-5561.
CONTACT:
Please contact PEARL's Customer Service Department with any questions you might have regarding distributors, parts or service.
Telephone: (800) 969-5561
Fax: (866) 515-7569
Customer Service Hours: Monday through Friday, 5AM-4:30PM PST

Pearl Abrasive Company
6832 East Slauson Ave,
Commerce, CA 90040

PEARL'S LIMITED WARRANTY
PEARL 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 PEARL 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 PEARL 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 PEARL, 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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PEARL 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.