

PLUGR™

Rock Solid™ A Division of Industrial Machine Specialties, Inc.

603 "L" Street Lincoln, NE 68508 (888) 418-9065 Fax (402) 474-6604 Web Site: Rocksolidx.com Email: sales@rocksolidx.com

PLUGR AERATOR MANUAL **including:**

Model PL400B Briggs & Stratton 5.5 HP Intek
Model PL400H Honda 5.5 HP OHV
22" Compact Turf Aerator

Model PL410B Briggs & Stratton 5.0 HP Intek
Model PL410H Honda 4.0 HP OHV
22" Rental Turf Aerator

Model PL600B Briggs & Stratton 5.5 HP Intek
Model PL600H Honda 5.5 HP OHV
30" Commercial Turf Aerator

Model PL800B Briggs & Stratton 6.5 HP Intek
Model PL800H Honda 5.5 HP OHV
30" Pro Turf Aerator

Model: _____

Serial Number: _____

PLUGR AERATOR SPECIFICATIONS

PL400

Machine Width	22"
Aeration Width Per Pass	22"
Hole Centers	3 5/8" x 6"
Hole Depth (Up to)	2 3/4"
Plug Diameter	5/8"
Approx. Sq. Ft. Per Hour (Up to)	22,000
Shipping Weight	245 lbs.
Actual Machine Weight	213 lbs.
Ball Bearing Wheel	10"
Belt Drive Clutch	V-type
Nylatron Cam Bearings	

PL410

Machine Width	22"
Aeration Width Per Pass	22"
Hole Centers	3 5/8" x 6"
Hole Depth (Up to)	2 3/4"
Plug Diameter	5/8"
Approx. Sq. Ft. Per Hour (Up to)	22,000
Shipping Weight	219 lbs.
Actual Machine Weight	188 lbs.
Ball Bearing Wheel	10"
Belt Drive Clutch	V-type
Nylatron Cam Bearings	

PL600

Machine Width	30"
Aeration Width Per Pass	30"
Hole Centers	3 5/8" x 6"
Hole Depth (Up to)	2 3/4"
Plug Diameter	5/8"
Approx. Sq. Ft. Per Hour (Up to)	27,500
Shipping Weight	295 lbs.
Actual Machine Weight	254 lbs.
Ball Bearing Wheel	10"
Belt Drive Clutch	Double V-type
Nylatron Cam Bearings	

PL800

Machine Width	30"
Aeration Width Per Pass	30"
Hole Centers	2 1/4" x 8"
Hole Depth (Up to)	2 3/4"
Plug Diameter	5/8"
Approx. Sq. Ft. Per Hour (Up to)	27,500
Shipping Weight	317 lbs.
Actual Machine Weight	276 lbs.
Ball Bearing Wheel	10"
Belt Drive Clutch	Double V-type
Nylatron Cam Bearings	

ASSEMBLY INSTRUCTIONS

PL400

Handle: The folding handle comes attached from the factory. To place into service, retract the handle lock collar, tilt the handle all the way back and engage the handle lock collar into the locked position. Reverse the procedure to tilt handle into storage position.

Engine: Engine and gear case are factory filled with high quality detergent SAE 30 oil, (SE, SF, or SG). Check level prior to operation. Please refer to the engine manual or call the engine manufacturer at the phone number listed in the engine instructions if there are any questions regarding the engine. NOTE: GASOLINE CAN BE HAZARDOUS. HANDLE GASOLINE CAREFULLY AT ALL TIMES! USE LEAD FREE GASOLINE **WITHOUT** OIL MIXED IN.

PL410

Handle: The folding handle comes attached from the factory. To place into service, retract the handle lock collar, tilt the handle all the way back and engage the handle lock collar into the locked position. Reverse the procedure to tilt handle into storage position.

Retractor Plate Holder: To prevent marring the cover with the retractor cable, hook chain over retractor plate bolt before folding handle.

Engine: Engine and gear case are factory filled with high quality detergent SAE 30 oil, (SE, SF, or SG). Check level prior to operation. Please refer to the engine manual or call the engine manufacturer at the phone number listed in the engine instructions if there are any questions regarding the engine. NOTE: GASOLINE CAN BE HAZARDOUS. HANDLE GASOLINE CAREFULLY AT ALL TIMES! USE LEAD FREE GASOLINE **WITHOUT** OIL MIXED IN.

PL600/800

Handle: Slide the handle onto the frame pegs. The control levers should be facing upward. Insert the two (2) clevis pins and fasten with the two (2) hairpin cotter keys or the hardware that is provided.

Retractor Cable: Solid wire cable with identical ends attaches to black retractor plate with 1/4" x 1 1/2" bolt and lock nut. This is installed at the factory. The other end is placed on the left side handle lever. Remove washer and cotter key. Install cable and place washer and cotter key back in position. Be sure to spread cotter key.

Clutch Rod: Solid rod attaches by a spring to the right handle lever. After installing handle, remove cover and connect rod into the single rear hole of the clutch pivot bracket. Use cotter key provided.

Engine: Engine and gear case are factory filled with high quality detergent SAE 30 oil, (SE, SF, or SG). Check level prior to operation. Please refer to the engine manual or call the engine manufacturer at the phone number listed in the engine instructions if there are any questions regarding the engine. NOTE: GASOLINE CAN BE HAZARDOUS. HANDLE GASOLINE CAREFULLY AT ALL TIMES! USE LEAD FREE GASOLINE **WITHOUT** OIL MIXED IN.

Safety Instructions

Turf aerators are designed exclusively for the purpose of the improvement of turf grass by removing "plugs" of existing turf to allow the flow of nutrients, water and oxygen to the roots. Any other use is unadvisable and can cause serious injury or death.

DO

- Always follow operating instructions
- Operate only with the guard/cover in place
- Wear protective equipment including hearing protection, eye shields and proper footwear
- Read and heed all warning labels affixed to the machine
- Remove spark plug wire when machine is not being used to prevent operation without instruction
- Clear area to be aerated of all loose objects and all children
- Flag sprinkler heads and other hidden obstacles and holes
- Practice operation in an open area prior to operation in tight areas
- Keep hands and feet away from operating parts
- Use hearing protection. Tested noise levels range from 86.4dB(A) - 89.5dB(A).

NEVER ALLOW CHILDREN TO OPERATE POWER EQUIPMENT

DO NOT

- Operate on severe slopes (exceeding 15°)
- Allow children to operate or be within 50' of operation
- Operate without guard/cover attached
- Operate when footing is unsure
- Leave machine unattended while running
- Operate when dark or hard to see clearly
- Override the safety shutoff switch
- Lift guard/cover without positioning body to avoid lift injury
- Allow feet to be placed under the rear of machine
- Operate without instructions
- Allow others to operate without access to instructions
- Operate without warning labels clearly readable.

Operating Instructions

CAUTION! KEEP FINGERS FROM BEING PINCHED UNDER THE MOVING HAND LEVERS DURING ENGAGEMENT.

Right hand lever: This lever engages the drive belt idler. Pull it back to engage. This lever must be held down for machine operation. When released, forward motion will stop. If the lever fails to spring forward when released, contact the manufacturer immediately for adjustment instructions as this is a safety feature.

Left hand lever: This lever swings the plug mechanism forward into the operating position. With the right hand lever engaged, release the transport lock on handle and allow lever to move forward. It will automatically pull itself into operating position.

To aerate: Pull the right hand lever back and hold. Release the left hand lever and allow it to move forward. Do not push machine while operating. The holes will be deeper if you allow the PLUGR to pull itself forward as the tines penetrate the soil.

To stop PLUGR: Release the right hand lever. It will automatically spring forward to disengage belt idler. Pull the left hand lever back and engage transport lock. SHUT OFF ENGINE if not continuing.

To open access cover: To open access cover, remove center screw and release rubber latches. Reverse procedure to replace cover.

Maintenance Instructions PL400

Cam bearing: Grease cams on the zerks provided every 10 hours of operation. Use any standard grade automotive grease.

Shaft bearings: Grease both crank shaft ball bearings on the zerks provided every 100 hours of operation.

Wheel bearings: Grease wheel ball bearings on the zerks provided every 100 hours of operation.

Engine oil/filter: See engine manufacturer's instructions. Change oil and filter at least once a season per engine manual.

V-Belt: Adjust the clutch cable at the bracket on the handle by moving the two jam nuts. Be sure to re-tighten jam nuts. Do not overtighten v-belt. This puts a load on the engine gear box bearings. The belt is tight enough when it does not slip during operation.

Tines (threaded type): These are adjustable by only the thickness of the jam nut approximately 1/4" and the openings should face the rear of the PLUGR. They are replaceable by loosening the jam lock nut and unscrewing the tine. All threads are right hand. Install the tine with the jam lock nut on the tine and use maximum threads inserted into the plugger casting. Tighten jam lock nut against the plugger casting.

Decals: All safety decals are available for replacement at no cost. Do not operate without all warning labels clearly readable.

Maintenance Instructions PL410

Cam bearings: Grease cams on the zerks provided every 10 hours of operation. Use any standard grade automotive grease. Lubricate through the access cover.

Shaft bearings: Grease both crank shaft ball bearings on the zerks provided every 100 hours of operation.

Wheel bearings: Grease wheel ball bearings on the zerks provided every 100 hours of operation.

Engine oil/filter: See engine manufacturer's instructions. Change oil and filter at least once a season per engine manual.

V-Belt: Adjust the clutch cable at the bracket on the frame by moving the cable to the next hole. Do not overtighten v-belt. This puts a load on the engine gear box bearings. The belt is tight enough when it does not slip during operation.

Tines (threaded type): These are adjustable by only the thickness of the jam nut approximately 1/4" and the openings should face the rear of the PLUGR. They are replaceable by loosening the jam lock nut and unscrewing the tine. All threads are right hand. Install the tine with the jam lock nut on the tine and use maximum threads inserted into the plugger casting. Tighten jam lock nut against the plugger casting.

Decals: All safety decals are available for replacement at no cost. Do not operate without all warning labels clearly readable.

Maintenance Instructions PL600, PL800

Cam bearing: Grease cams on the zerks provided every 10 hours of operation. Use any standard grade automotive grease.

Shaft bearings: Grease both crank shaft ball bearings on the zerks provided every 100 hours of operation.

Wheel bearings: Grease wheel ball bearings on the zerks provided every 100 hours of operation.

Engine oil/filter: See engine manufacturer's instructions. Change oil and filter at least once a season per engine manual.

V-Belt: Adjust V-belt tightness with adjustment holes in pivoting clutch bracket. It should only be necessary to move to the next hole. Do not overtighten V-belt. This puts a load on the engine gear box bearings. The belt is tight enough when it does not slip during the operating cycle.

Tines (threaded type): These are adjustable by only the thickness of the jam nut approximately 1/4" and the openings should face the rear of the PLUGR. They are replaceable by loosening the jam lock nut and unscrewing the tine. All threads are right hand. Install the tine with the jam lock nut on the tine and use maximum threads inserted into the plugger casting. Tighten jam lock nut against the plugger casting.

Decals: All safety decals are available for replacement at no cost. Do not operate without all warning labels clearly readable.

Machine Labels

**CHECK OIL BEFORE EACH USE.
GREASE ALL FITTINGS EVERY 10 HOURS OF OPERATION.**

TO AERATE

1. Retract Tines With Left Control Lever.
2. Begin Forward Motion of Aerator Manually.
3. Engage Right Drive Lever With Aerator Already in Motion.

Operation Label

CAUTION!
AWKWARD LIFT.



COVER MUST LIFT STRAIGHT UP TO ACCESS MECHANISM!

Lifting Caution Label
(Not Included on PL410)

ALWAYS USE EYE AND EAR PROTECTION.



THIS MACHINE PRODUCES NOISE LEVELS THAT TEST IN THE RANGE OF 86.4dB(A) - 89.5dB(A).

Protective Equipment Label

PLACE CHAIN OVER RETRACTOR PLATE BOLT BEFORE FOLDING HANDLE

Operation Label
(PL410 only)

WARNING

- HOT MUFFLER
- MAY EXCEED 150°

Warning: Hot

WARNING

- SHIELD MISSING
- DO NOT OPERATE

Warning: Shield

DANGER

PINCH POINT



Pinch Point Label

DANGER

KEEP SHIELD IN PLACE MOVING PARTS
KEEP HANDS AND FEET AWAY WHEN IN OPERATION
SHUT ENGINE OFF WHEN SERVICING



Pinch Point Label

Transport Position
Posición de transporte
Slowly Release to Aerate
Lentamente soltar para airear




Left Hand Engagement Lever-Top

Aeration Position
Posición de aeración
Pull Back on Handle to Transport
Llu Estire el manubrio hacia atrás para transportar



Right Hand Engagement Lever-Bottom

Release to Disengage Power
Soltar para desengranar energía



Right Hand Engagement Lever-Top

Pull Back to Engage Power
Estire hacia atrás para engranar energía



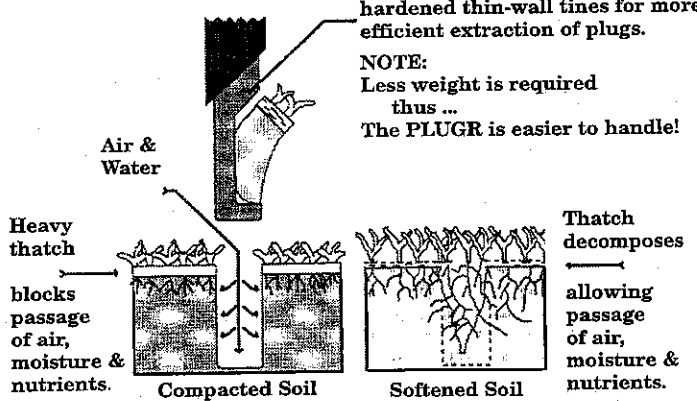
Right Hand Engagement Lever-Bottom

ROCK SOLID DIVISION OF IMS
503 L STREET
LINCOLN, NEBRASKA

MODEL _____
SERIAL _____
YEAR _____
WT. _____ LBS. _____ KG.

Product Label

How the ROCK SOLID PLUGR helps enrich your lawn.



The ROCK SOLID PLUGR utilizes hardened thin-wall tines for more efficient extraction of plugs.

NOTE:
Less weight is required
thus ...
The PLUGR is easier to handle!

Air & Water

Heavy thatch blocks passage of air, moisture & nutrients.

Compacted Soil

Softened Soil

Thatch decomposes allowing passage of air, moisture & nutrients.

WARRANTY

PL400, PL600, PL800

WARRANTY

LIMITED WARRANTY FOR ROCK SOLID PLUGR LAWN AERATOR (engine excluded)

For one full year from date of purchase and first use, Rock Solid will replace for the original purchaser free of charge any parts of the machine (excluding engine, tines and belts) found upon examination by Rock Solid or its approved agent to be defective in material or workmanship or both. In addition, the entire crankshaft assembly will be warranted for two full years subject to the same conditions above. Rock Solid will not reimburse any party for warranty labor. This is the exclusive warranty.

All transportation charges on parts submitted for replacement must be borne by purchaser. For warranty service contact the dealer from whom you purchased machine or the factory in Lincoln, Nebraska which reserves the right to examine the machine and make its own evaluation at its option. THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM DATE OF PURCHASE. TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. LIABILITY FOR CONSEQUENTIAL DAMAGES UNDER ANY AND ALL WARRANTIES ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW. Some jurisdictions do not allow limitations on how long an implied warranty lasts, and some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which may vary from jurisdiction to jurisdiction.

PL410

WARRANTY

LIMITED WARRANTY FOR ROCK SOLID PLUGR LAWN AERATOR (engine excluded)

For one full year from date of purchase and first use, Rock Solid will replace for the original purchaser free of charge any parts of the machine (excluding engine, tines and belts) found upon examination by Rock Solid or its approved agent to be defective in material or workmanship or both. Rock Solid will not reimburse any party for warranty labor. This is the exclusive warranty.

All transportation charges on parts submitted for replacement must be borne by purchaser. For warranty service contact the dealer from whom you purchased machine or the factory in Lincoln, Nebraska which reserves the right to examine the machine and make its own evaluation at its option. THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM DATE OF PURCHASE. TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. LIABILITY FOR CONSEQUENTIAL DAMAGES UNDER ANY AND ALL WARRANTIES ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW. Some jurisdictions do not allow limitations on how long an implied warranty lasts, and some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which may vary from jurisdiction to jurisdiction.



603 L Street
Lincoln NE 68508

**Ask for a FREE Demonstration Video or View it on the Web at
www.rocksolidx.com**

Phone: 888-418-9065

Fax: 402-474-6604 or email: sales@rocksolidx.com

Pluigr aerators are manufactured by Rock Solid™, a division of Industrial Machine Specialties, Inc.