

**P-REX MINI:
Pioneer Line Remover
Instruction Manual**



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WARNING

The engine exhaust from this product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

NOTICE OF REQUIREMENT OF SPARK ARRESTER MUFFLER

This equipment may create sparks that can start fires around dry vegetation. California Public Resources Code Section 4442.6 provides that it is unlawful to use or operate an internal combustion engine on any forest-covered, brush-covered, or grass-covered land unless the engine is equipped with a spark arrester maintained in effective working order. A spark arrester is a device constructed of nonflammable materials specifically for the purpose of removing and retaining carbon and other flammable particles over 0.0232 of an inch in size from the exhaust flow of an internal combustion engine that uses hydrocarbon fuels or which is qualified and rated by the United States Forest Service. Other states or federal areas may have similar laws. The Operator Should Contact Local Fire Agencies for Laws or Regulations Relating to Fire Prevention Requirements. **THIS EQUIPMENT DOES NOT HAVE A SPARK ARRESTER AND YOU SHOULD CONTACT YOUR AUTHORIZED DEALER FOR THE PURCHASE OF A SPARKARRESTER.**

Inspect spark arrester daily; replace every 500 hours or as needed.

The Engine Owner's Manual provides information regarding the U.S. Environmental Protection Agency (EPA) and the California Emission Control Regulation of emission systems, maintenance and warranty.

Keep Engine Owner's Manual with your unit. Should the Engine Owner's Manual become damaged or illegible, replace immediately. Replacements may be ordered per the information found in the Product Information section of the owner's manual.

Federal law and California State law prohibit the following acts or the causing thereof:

- 1. The removal or rendering inoperative by any person other than for purposes of maintenance, repair, replacement, of any device or element of design incorporated into any equipment for the purposes of emissions control prior to or after its sales or delivery to the ultimate purchaser or while it is in use, or**
- 2. The use of the equipment after such device or element of design has been removed or rendered inoperative by any person**

Table of Contents

General Information	1
GameLine Paint and the P-REX Mini Removal System.....	1
To the New Owner	1
Warranty	1
Customer obligations	1
Model and Serial Number Information.....	1
Operations	2
Safety Controls.....	2
Starting.....	2
Stopping	2
Engaging Brushes	3
Water and Blitz Application	3
Water	3
Blitz.....	4
Paint Removal and Extractions Operation	7
Maintenance and Adjustments	8
Lubrication	8
Hydraulic System.....	8
Belts.....	9
Removing or replace Belts	9
Removing Belts	10
Remove Water Pump Belt.....	10
Remove Hydraulic Belt.....	11
Remove Drive Belt.....	11
Installing belts	12
Brushes.....	12
Brush removal	12
Brush Installation	13
Brush Spring Clip Issues	13
P-REX MINI Maintenance Schedule.....	14
TROUBLESHOOTING GUIDE.....	15
Water Issues.....	16
Hydraulic Drive Release	17
Blitz Pump	17
Engine Will Not Start.....	18
Engine stalled while running.....	19
Plugged Nozzles	19
STORAGE.....	20
Storage for long periods.....	20
P-REX MINI Parts Data Sheet.....	21
P-REX MINI Spare Parts List.....	22
INDEX.....	W

General Information

The P-REX Mini Line Remover was specifically designed to remove GameLine Paint from synthetic turf infilled systems. Its innovative design turns synthetic turf paint removal into a one-person job for efficient line removal without wear and tear to the turf fibers. By facilitating all the steps of the GameLine removal process – applying Blitz remover solution, agitating the paint/remover mix and applying rinse water; the P-REX Mini saves time and man-hours.

GameLine Paint and the P-REX Mini Removal System

GameLine paint is a durable, waterborne paint system that can withstand weather, wear and tear but, when needed, can be re-liquefied/dissolved when Blitz remover solution is applied. The Blitz remover solution activates the paint resins to make it breakdown. This “activation” is subject to a variety of conditions that may occur on any given field, including the temperature, the amount of paint to be removed or even the condition of the turf. The P-REX MINI gives the user the tools to control their cleaning effectiveness while minimizing waste of materials and time.

The P-REX MINI application system can apply Blitz remover solution evenly to a line with its sprayer. This application approach allows the operator to more efficiently apply remover solution.

To the New Owner

The purpose of this manual is to assist owners in the operation and maintenance of the Pioneer **P-REX MINI Line Remover**. Please review this portion of your manual for correct operation of the unit before you begin.

The Pioneer P-REX MINI uses a Hustler® FasTrak as a base drive unit on which a high-pressure water and Blitz spray system, and a hydraulic brush system have been added to remove paint from synthetic turf. These portions of the unit are unique to the P-REX MINI and will need special instructions, not found in the other

manufacturer’s manual. This portion of your manual is an addendum to the operation and maintenance manual. It includes only the changes and modifications made to the original unit. Please follow the detailed instructions and recommendations for routine maintenance and procedures that apply to the central unit. It’s important that you read and understand the complete manual before using the P-REX MINI.

Please read additional operation manuals supplied for correct operation & maintenance of that unit.

Warranty

Warranty for a period of one (1) year after equipment receipt, Pioneer Athletics warrants the **P-REX MINI Line Remover** machine as free from defects in material and workmanship. Warranty includes non-wearable parts and shipping of parts and/or equipment to and from Pioneer Athletics.

Customer obligations

This warranty is expressly conditioned on the buyer’s obligation to perform regular maintenance on and care for any equipment and supplies in accordance with any operating instructions and maintenance, a copy of which the buyer acknowledges receiving and to which the buyer agrees to be bound. If the buyer does not comply with such instructions, and that failure results in the need for replacement parts, the buyer shall bear the full cost of such replacement parts at Pioneers discretion.

Model and Serial Number Information

Model

Serial #

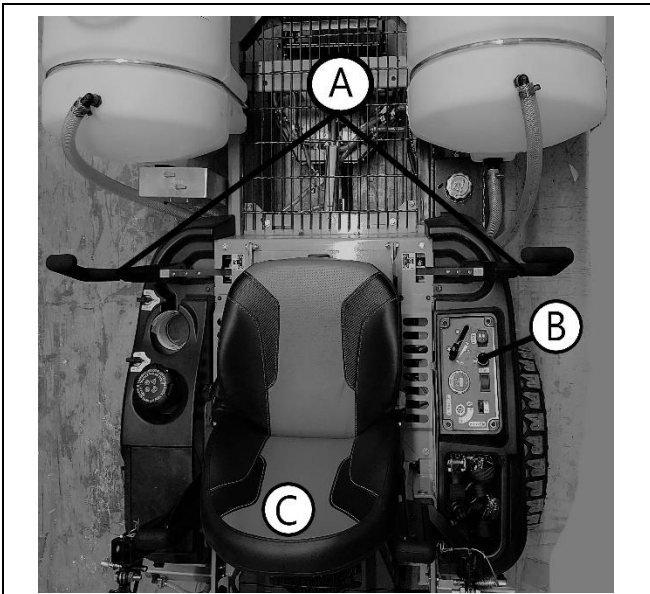
Date of Purchase

Operations

Safety Controls

There are three (3) components to the safety interlock system that must be in place to start the engine [Figure 1]

1. The steering arms must be in the parking brake position (all the way out) – (A)
2. The deck clutch knob must be in the off position (down) – (B)
3. The seat must be in the down position – (C)



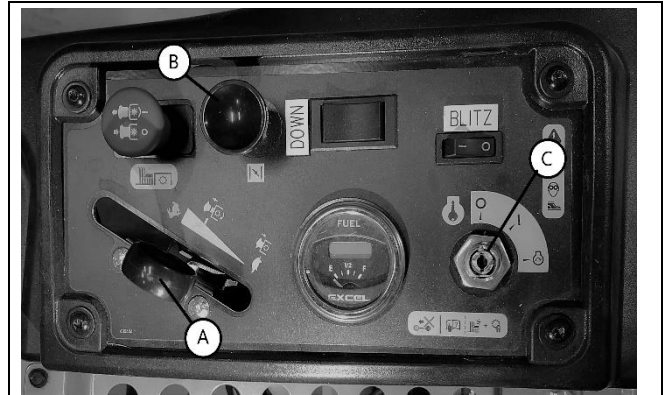
A – Steering Arms (2)
B – Choke Knob
C – Seat

Figure 1

Starting

Once the safety components are in place, the motor can be started following this procedure [Figure 2]

1. Move throttle to 1/2 open run position (A)
2. Pull up on choke knob (B)
3. Turn key clockwise until engine starts (C)

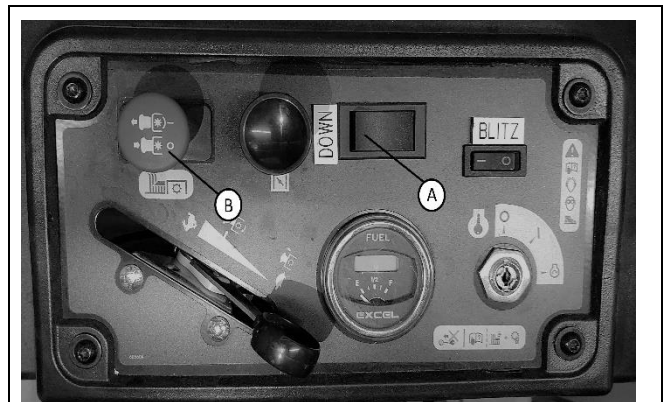


A – Throttle
B – Choke Knob
C – Ignition Key

Figure 2

Stopping

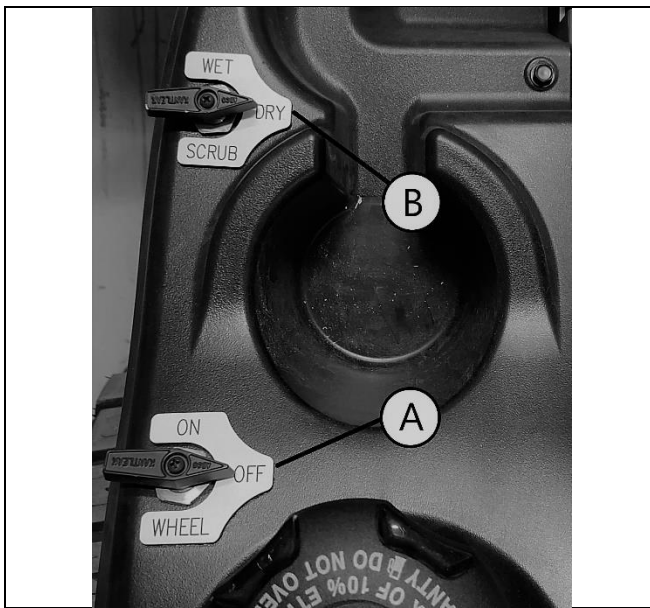
1. Raise the brush (A) and depress the brush clutch switch (B) [Figure 3]



A – Brush position Switch
B – Brush Clutch Knob

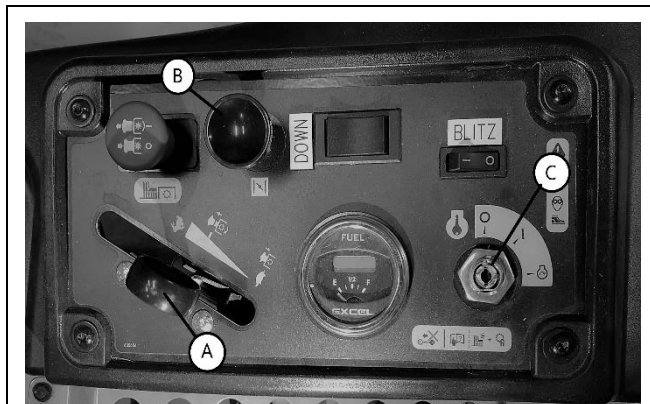
Figure 3

2. Turn the Wheel spray to off (A), turn the Scrub spray to DRY (OFF) (B) [Figure 4]



A – Wheel Spray
B – Scrub Selection

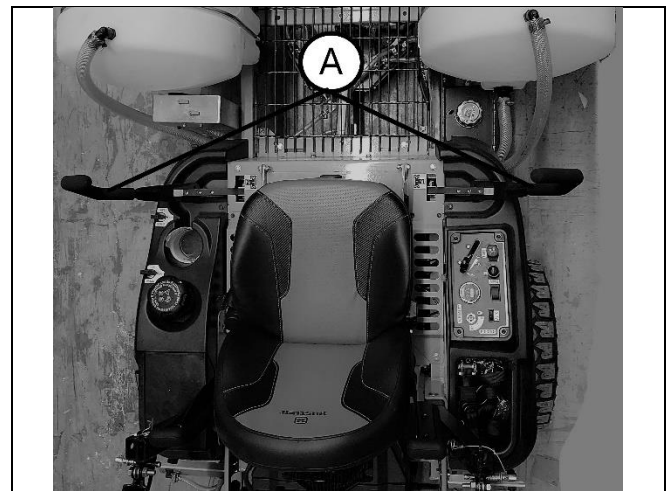
Figure 4



A – Throttle
B – Choke Knob
C – Ignition Key

Figure 5

3. Decrease throttle to idle, let engine run at low idle for a short time (A) [Figure 5]
4. Turn key counter-clockwise to stop position and remove key (B) [Figure 5]
5. Place the steering arms in the park break position (A) (all the way away from operator) [Figure 6]



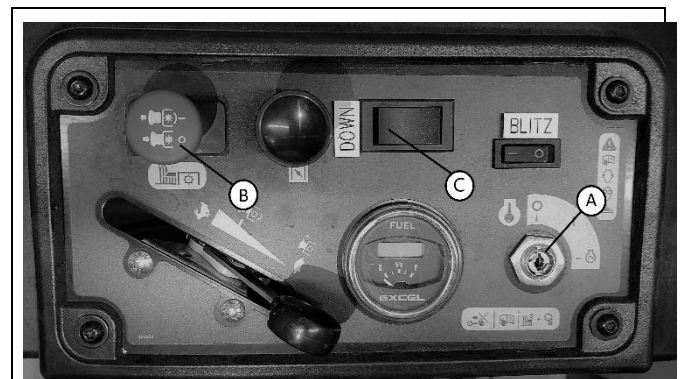
A – Steering Arms (2)

Figure 6

Engaging Brushes

The brush operation will start with the rinse water when the brush clutch is engaged.

1. Start the engine (A) [Figure 7]
2. With engine running and brushes raised, pull red brush clutch knob up (B) to the “ON” position to engage brushes
3. Raise and lower brushes using rocker switch (C)
4. Push deck knob down to disengage brushes and stop them from spinning (B)



A – Throttle
B – Choke Knob
C – Ignition Key

Figure 7

Water and Blitz Application

Water

The water system of the P-REX MINI is adjustable and can run water to the individual components as needed (wheel spray and brush) **but** the machine must be running at **full throttle**,

Run water to the wheel spray/rinse nozzles

Move wheel switch to on position – (A)
[Figure 8]

When the brush clutch knob is pulled up, the water will turn on and spray on the rear wheels.

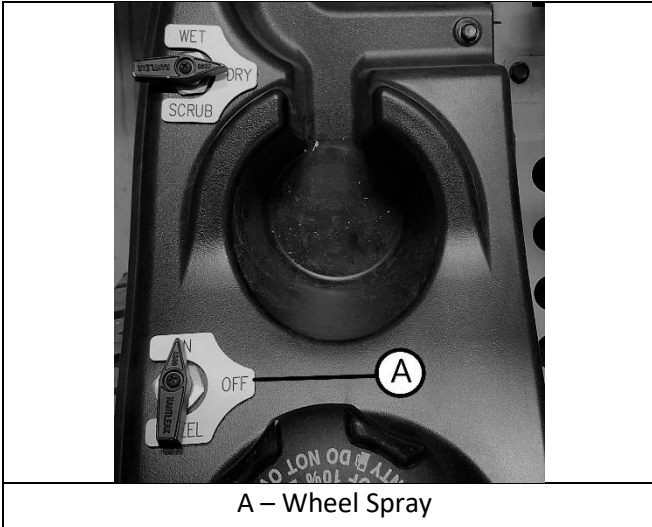


Figure 8

Run water to the brush nozzles

Move the Scrub switch to “WET” position - (A)
[Figure 9]

When the brush clutch knob is pulled up, the water will turn on and spray on the brush area.

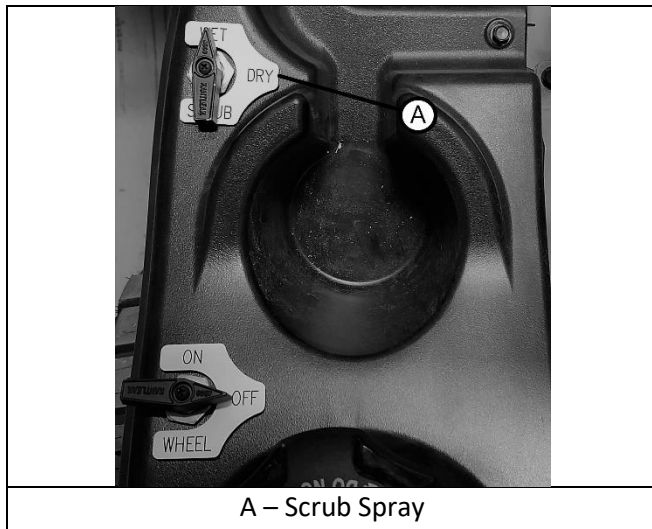


Figure 9

Blitz

Blitz remover can be delivered to two places near the brush; in-front and behind the scrubbing area. The Blitz control panel is located to the left of the operator behind the steering arm.

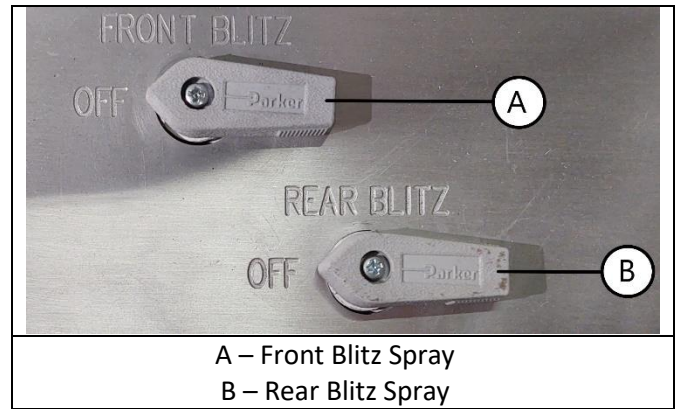


Figure 10

Front Blitz Spray

1. To run Blitz through the Front Spray boom (A)
[Figure 11]

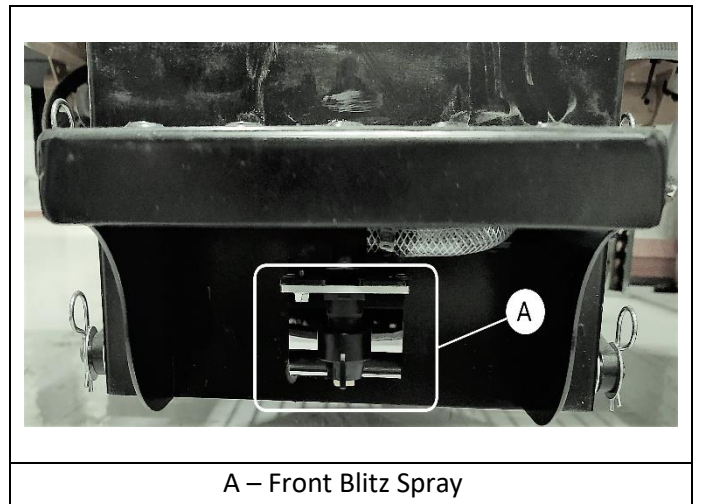


Figure 11

2. Turn Blitz switch to the “FRONT BLITZ” position (A) [Figure 12].

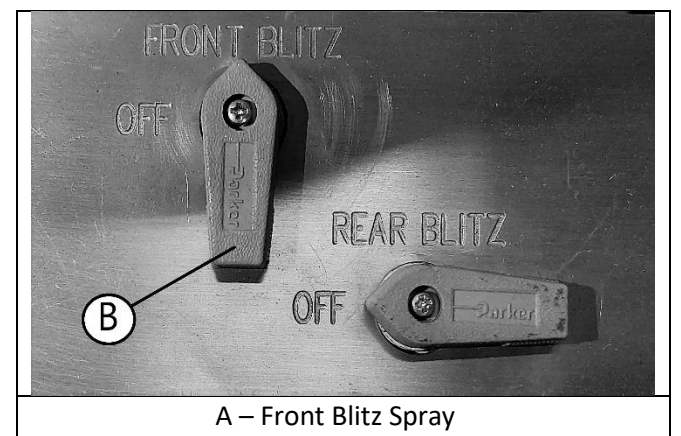
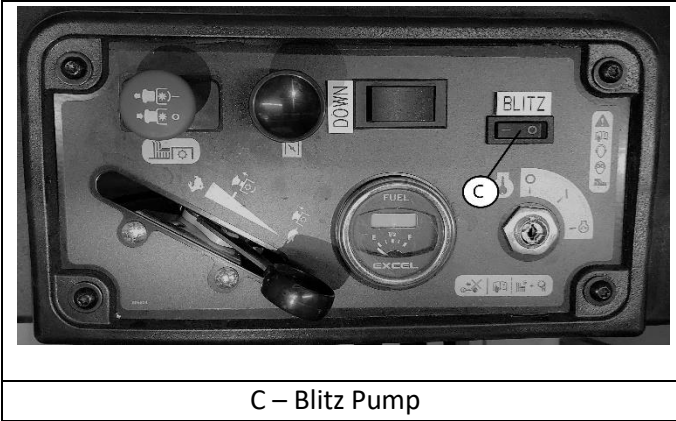


Figure 12

- Then turn on the pump, using the switch on the control panel (C) [Figure 13]. This will spray Blitz through the spray nozzle in front of the scrubbing area.

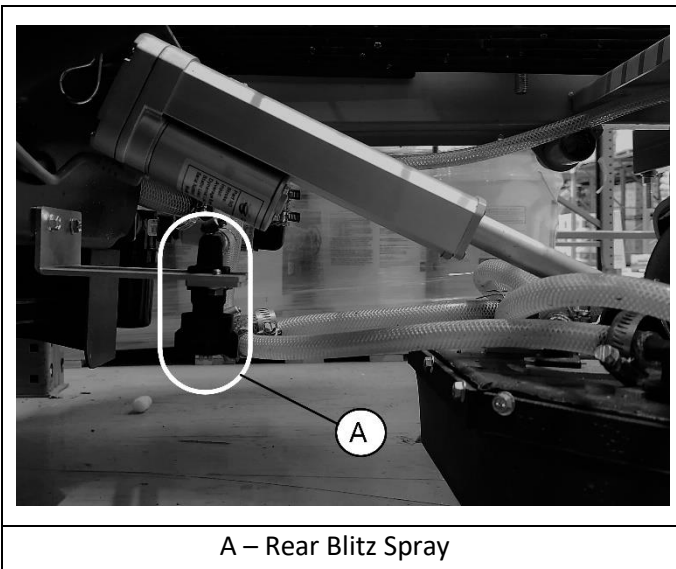


C – Blitz Pump

Figure 13

Rear Blitz Spray

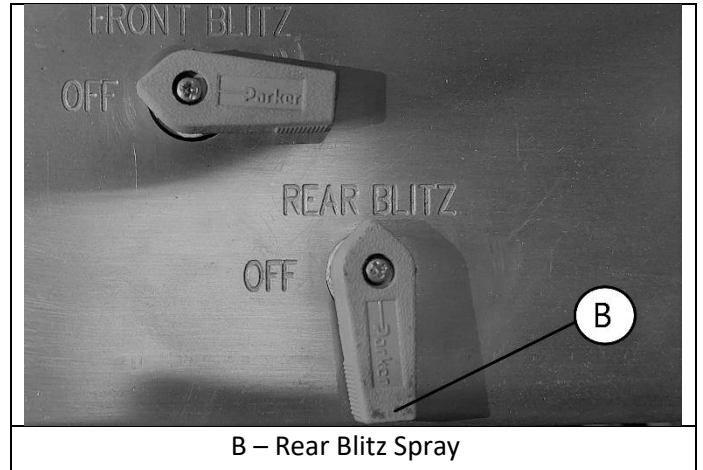
- To run Blitz through the Rear Spray boom, (directly behind the brush) (A) [Figure 14]



A – Rear Blitz Spray

Figure 14

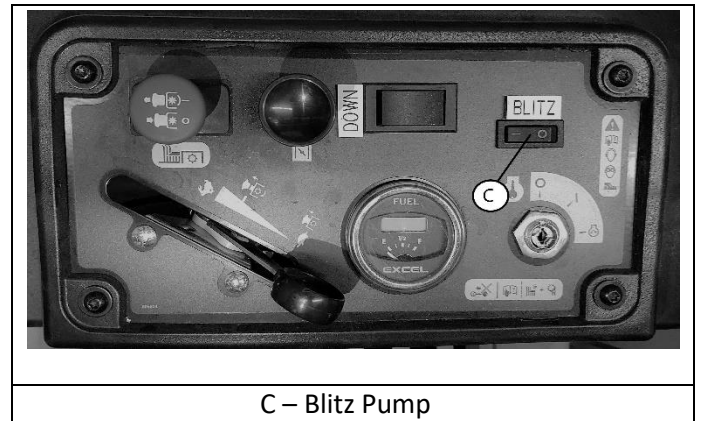
- Turn Blitz switch to the “REAR BLITZ” position (B) [Figure 15].



B – Rear Blitz Spray

Figure 15

- Then turn on the pump, using the switch on the control panel (C) [Figure 16]. This will spray Blitz through the spray nozzle behind the scrubbing area.



C – Blitz Pump

Figure 16

Dual Blitz Spray

1. To run Blitz through both Spray booms, turn both Blitz switch to the on position (A) & (B) [Figure 17].
2. Then turn on the pump, using the switch on the control panel (C) [Figure 18]. This will spray Blitz through the both spray nozzles in front and behind the scrubbing area.

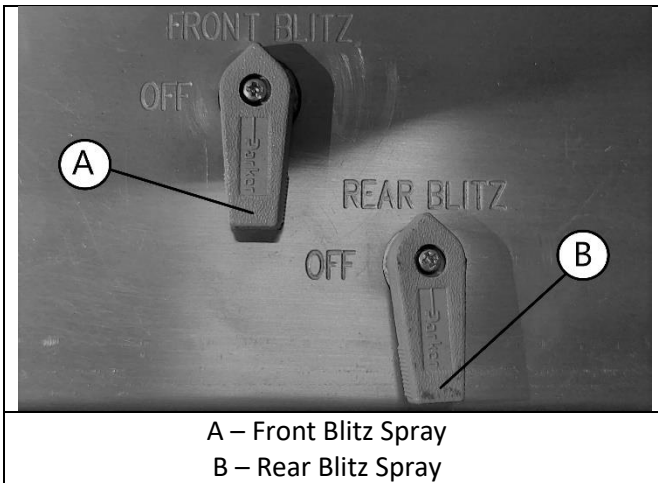


Figure 17

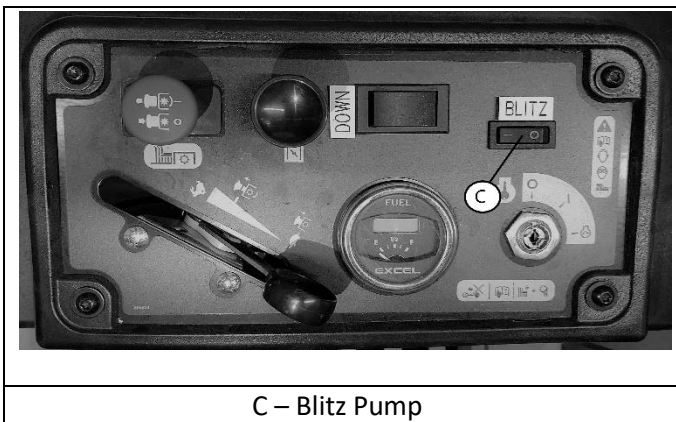


Figure 18

Paint Removal and Extractions Operation

This is a general approach to paint removal and extraction. Variations in turf, weather, and paint quantities could require variations to this procedure.

1. Dry Scrub – turn the “SCRUB” selector to “DRY” and start the brush rotating by pulling up the Brush Clutch knob. Drive over the painted area to be removed. This agitation will break up the paint and loosen turf fibers for better Blitz remover application coverage. Keep brush high, only apply enough brush (downward) pressure so that the fibers are agitated but not displacing infill rubber.
2. Apply Blitz - apply Blitz to the desired nozzle(s). Apply the Blitz to the area that can be worked without Blitz evaporating. Allow the Blitz remover to activate the GameLine paint being removed. The length of time is dependent on temperature, humidity, and amount of paint.
3. Remove Paint – turn on the water and start the brush spinning; drive SLOWLY over the painted area to be removed.
4. Repeat if necessary. Some areas, with several layers of paint, will require multiple cleanings to completely remove.

Notes:

Maintenance and Adjustments

The adjustments listed below include the additions to the base unit. Refer to the Operator's and General Service Manuals for more detailed information.

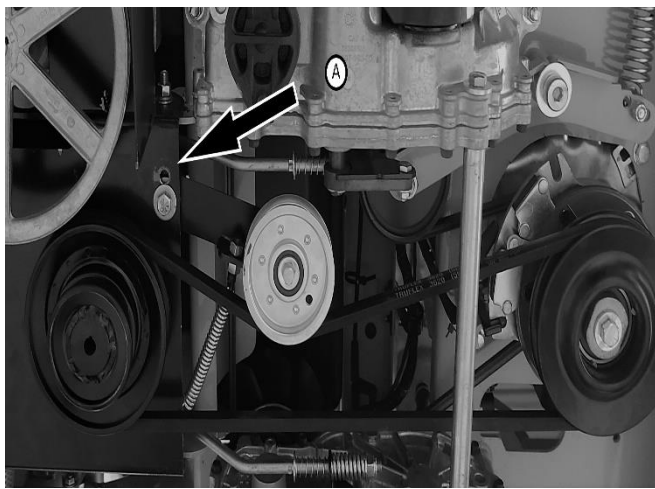
Tires

The P-REX Mini brush require that the tires be inflated to equal amounts per side. Check tire pressure before each use.

1. Drive wheels 29 - 32 psi (200–220 KPa)
2. Front wheels 25 - 28 psi (172–193 KPa)

Lubrication

The P-REX MINI has an additional grease (zerk) fitting beyond the normal lubrication points of the base unit. The additional fitting can be found at base of the hydraulic belt idler arm. (A) [Figure 19] & [Figure 20] See the General Service Manual for more information



A – Grease (zerk) Fitting

Figure 19



A – Grease (zerk) Fitting

Figure 20

Hydraulic System

The hydraulic system of the P-REX MINI is supplying the power to turn the brush.

1. Check Hydraulic oil levels every 50 hours – Fluid levels should be 1 inch from top of reservoir, located on the right side of the driver, near the control arm. [Figure 21]
2. Use only **15W50 synthetic oil or 20W50 synthetic oil**. Full Synthetic 20W50 Hydrostatic Transmission Oil is recommended. [Figure 19]

NOTE: The reservoir will require approximately 1.25 U.S. gallons (4.75 liter) of **15W50 synthetic oil or 20W50 synthetic oil** when replacing the oil after an oil and filter change. **Do not overfill the reservoir.**

3. The front bush hydraulic system can be disconnected from the hydraulic system at the quick release connections located under foot grate. [Figure 19]



Hydraulic Tank

Figure 21

Belts

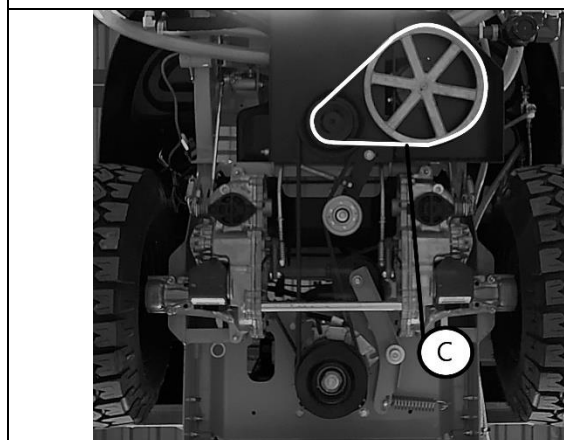
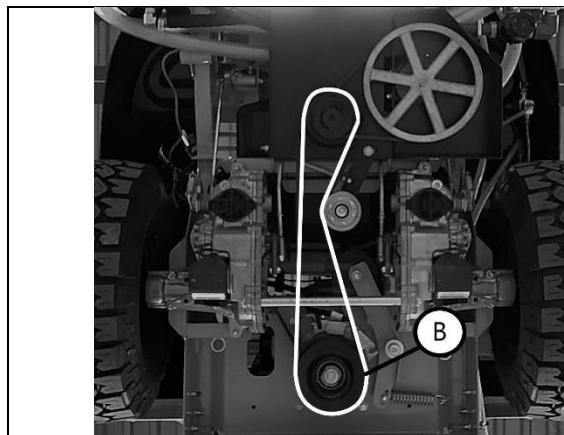
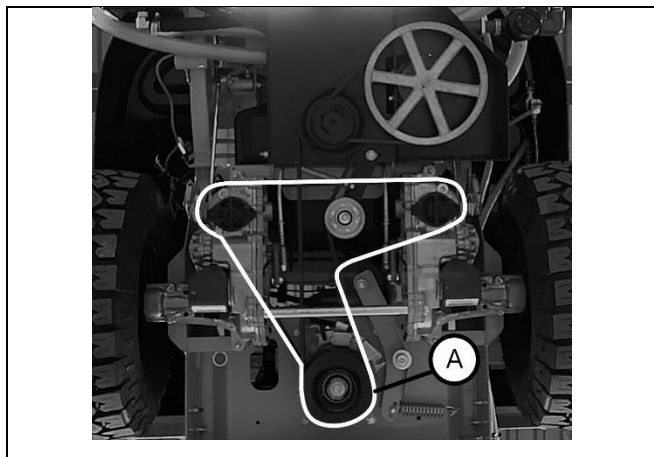
The P-REX MINI has three (3) belts, they should be checked regularly for wear.

Belt part numbers: [Figure 22]

Drive (Wheels) Belt (A) - Part # PM1026

Hydraulic (Brush) Drive Belt (B) - Part # PM1025

Water Pump Drive Belt (C) - Part # PP1040



A – Drive Belt

B – Hydraulic Belt

C – Water Pump Belt

Figure 22

Removing or replace Belts

Inspect belts frequently for wear and serviceability.

Replace a belt that shows signs of:

- severe cuts
- tears
- separation
- weather checking
- cracking
- burns caused by slipping

Slight raveling of belt covering does not indicate failure, trim ravelings with a sharp knife.

Inspect the belt pulley grooves and flanges for wear. A new belt, or one in good condition, should never run against the bottom of the groove. Replace the pulley when this is the case, otherwise, the belt will lose power and slip excessively.

Never pry a belt to get it on a pulley as this will cut or damage the fibers of the belt covering.

Keep oil and grease away from belts, and never use belt dressings. Any of these will destroy the belt composition in a very short time.

WARNING

Untrained maintenance personnel should never attempt to make any adjustments or repairs to the drive system while the engine is running. **The following procedures should be performed by trained maintenance personnel only.**

WARNING

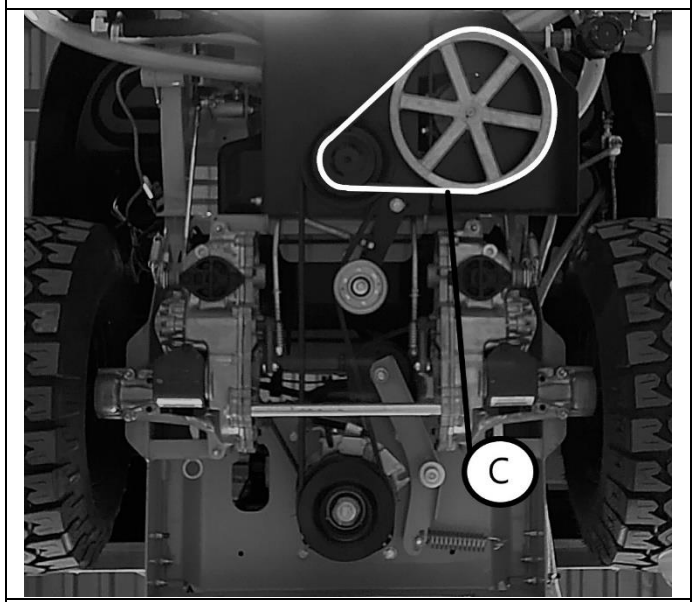
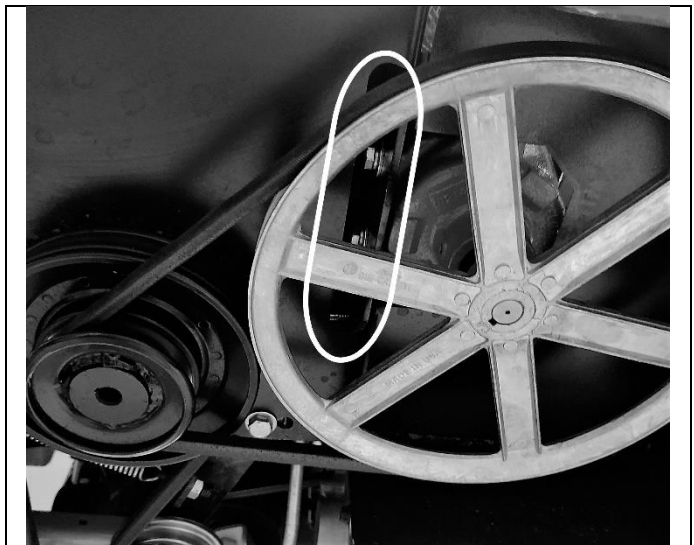
- Potential for serious injury!
- Never work under the machine or attachment unless it is safely supported with jack stands.
- Make certain machine is secure when it is raised and placed on the jack stands.
- **Use only certified jack stands.** Use only appropriate jack stands, with a minimum weight rating of 2000 pounds (910 kg) to block the unit up.
- Use in pairs only.
- Follow the instructions supplied with the jack stands.
- The jack stands should not allow the machine to move when the engine is running and the drive wheels are rotating.
- Do not allow the wheels to come in contact with the floor or any object that would permit the unit to propel itself.
- To prevent injury, stay clear and exercise caution when rotating the wheels.

Removing Belts

To remove any belt, follow these steps:

Remove Water Pump Belt

1. Loosen the bolts holding the water pump housing to the mounting plate. Slide the pump to remove the tension on the belt. This will allow the belt to fit around the pulley. [Figure 23]

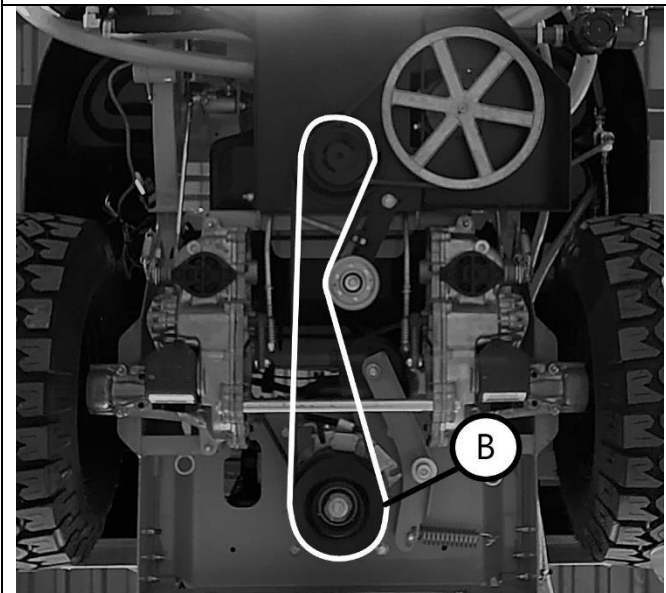
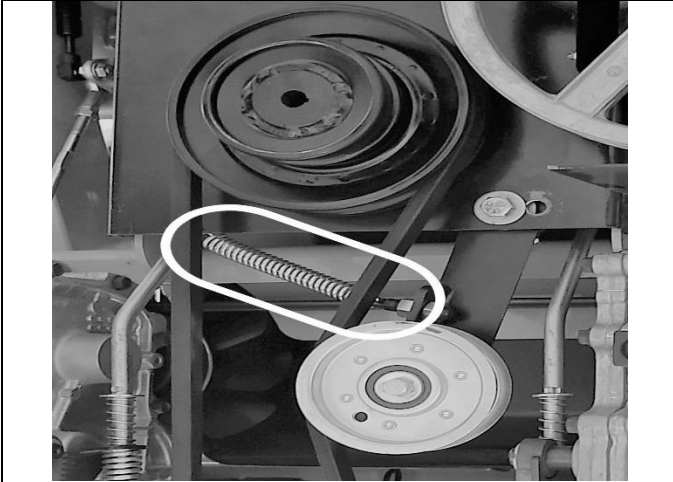


C - Water Pump Belt

Figure 23

Remove Hydraulic Belt

2. Loosen jam nuts on the spring holding eye tab bolt. This will release the tension on the Idler arm mount and pulley. This will allow the belt to fit around the pulley. [Figure 24]

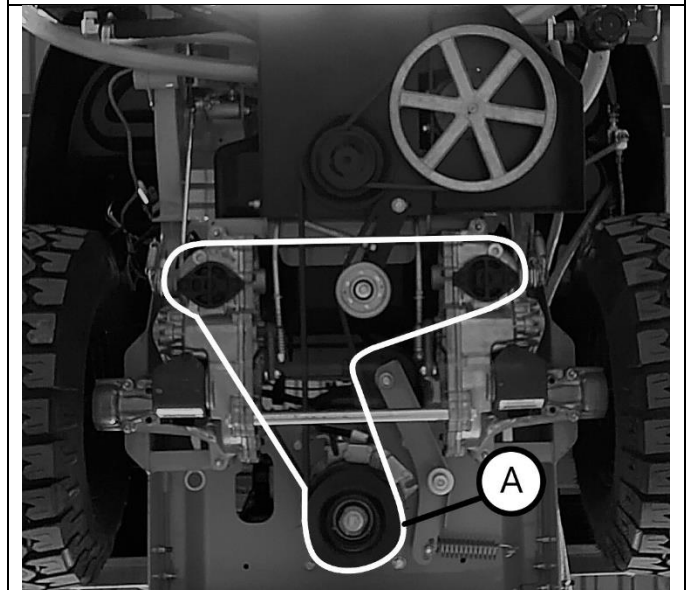


B – Hydraulic Pump Belt

Figure 24

Remove Drive Belt

3. Remove the spring from the mount. This will release the tension on the Idler arm mount and pulley. This will allow the belt to fit around the pulleys. [Figure 25]



Spring Eye Tab Bolt

Figure 25

Installing belts

To install the belt, reverse the process listed above.

If any belt is removed:

1. Tension on belts should be returned to approximately 10 Lbs./in
2. Adjust the tension on the belt using the idler arm (drive belt and hydraulic) or breaker bar (water) and tighten the mounting screws.
3. Failure to do this will cause slipping and premature wearing to the belts.

Brushes

The P-REX Mini brush should be cleaned after every use or if they become full of infill, paint or debris. They can be easily removed without tools.

Brush removal

1. Rotate the brush until the spring clip is lined up with the access area on the brush mount. [Figure 26]

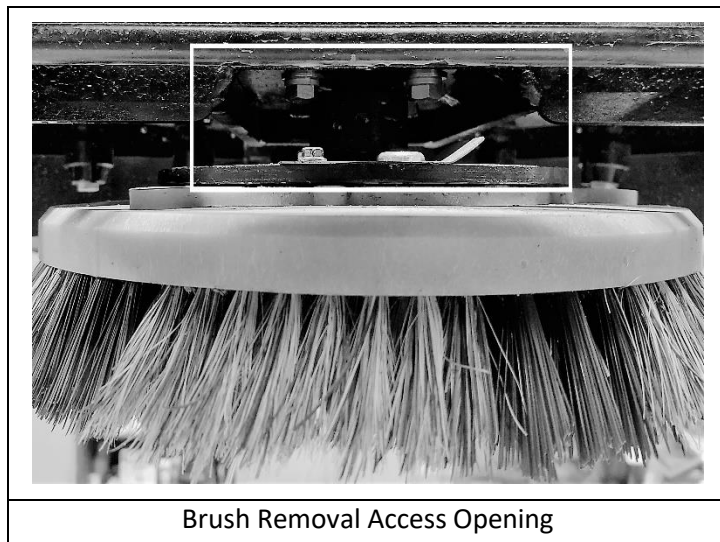


Figure 26

2. Lift spring clip and rotate brush anti-clockwise, approximately 1". By rotating the brush, this will unlock the lug from the spring clip. Line up the mounting lug with the access area on the brush mounting plate. [Figure 27]



Brush Removal

Figure 27

3. Once lug is lined up with the access hole, the brush will disengage (drop) from the mounting plate. [Figure 28]



Brush Mounting Plate

Figure 28

4. Drop the brush, bristle side down, from approximately 12", onto concrete or other hard surface to dislodge infill, paint or debris.
5. Lean brushes on side edge and spray with hose until clean. Repeat until bristles are clean

Brush Installation

1. Clean top of brush.
2. Clean top and bottom of the brush mounting plate and spring clips of all infill, paint and debris.
3. Line up brush lugs with the access holes in the brush mounting plate, lift the brush up into the brush mounting plate.
4. Rotate the brush clockwise. As brush rotates, the lug will push the spring clip up allowing the lug to pass into the locking position.
[Figure 29]



Brush Install

Figure 29

Brush Spring Clip Issues

1. If spring clip does not lock, there may be debris between the spring clip and hydraulic mounting plate
2. Remove brush and inspect for debris.
3. Remove spring clip from mounting plate using two (2) hex head screws.
4. Clean/remove debris from the spring clip.
5. Check the spring clip for straightness, wear or damage. Replace spring clip if necessary.
6. Clean hydraulic mounting plate
7. Re-install spring clip.
8. Clean the top of the brush, removing all infill, paint and debris.
9. Re-install brush (follow Brush Installation procedure).

P-REX MINI Maintenance Schedule

Before Every Use

1. Check that water valve is in the open position
2. Check in-line water filter
3. Check that all nozzles are clear and spraying normally- wheel, brush and blitz
4. Fill water tanks
5. Check engine and hydraulic oil levels

After Every Use

1. Clean brush after or during every use; recommended to clean out during every other water fill. An extra brush is recommended
2. Clean all loose debris
3. Flush Blitz pump with water if not going to be used for more than a week

Monthly Maintenance

1. Grease front wheel bearings
2. Grease pump idler pulley
3. Check engine oil
4. Check tire pressure
5. Check Belts for wear
6. Clean water inlet filter

Yearly or Seasonal Maintenance

1. Change fuel filter
2. Change oil and hydraulic fluids
3. Replace spark plugs
4. Replace fuel evaporation system filter

TROUBLESHOOTING GUIDE

SYMPTOMS	PROBABLE CAUSES	SUGGESTED REMEDIES
Water not spraying	Water valve closed	Check Main Water Valve is in "ON" position (See Water Pump Issues)
	Blown fuse	Check Main Fuse (See Water Pump Issues)
	Spray tips clogged	Remove and blow out spray tip with compressed air; replace
Unit engine won't start; unit needs to be moved manually	Hydraulic system is sealed	Release Hydraulic By-pass (See Hydraulic Drive Release)
Blitz stops spraying	Blitz pail empty	Replace pail
	Spray tips clogged	Remove and blow out spray tip with compressed air; replace
	Blitz pump stops working	Corroded wires: Clean and grease connections (See Blitz Pump Stops)
Engine will not start	Engine has not been started recently	Turn ignition key for short time. (See Engine Starting – Operator's Manual)
	Steering control levers are not in park/lock position	Check if Steering control levers are all the way out
	Steering control levers lock switches are still actuated (switch is located under seat, in front of the fuel tank)	Move Steering control levers in and out of park/lock position to release stuck switch Manually release stuck switch by pulling button out
	Blown fuse	Check fuses (See Engine will not Start)
	Brush clutch engaged	Check the Brush clutch position (See Engine will not Start)
	Engine stalls and will not start	Check fuel gage levels
		Check fuel shut off valve (See Fuel Shut-off Valve – Operator's Manual)
Brush falls off easily Brush won't mount	Check spring clip	Remove debris and re-install
	Spring clip bent	Replace spring clip

Water Issues

If water is not spraying.

1. Fill water tanks
2. Check if the main water valve (A) [Figure 30] is in the open position
3. Clear the filter of debris (B) [Figure 31]
4. Clean spray tips and filter screens. [Figure 32]

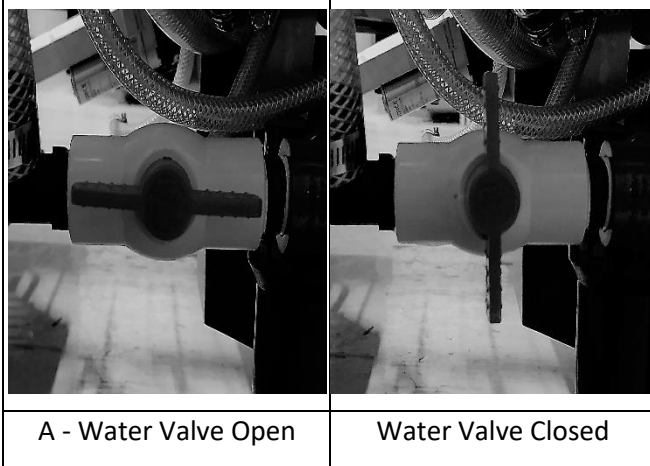


Figure 30

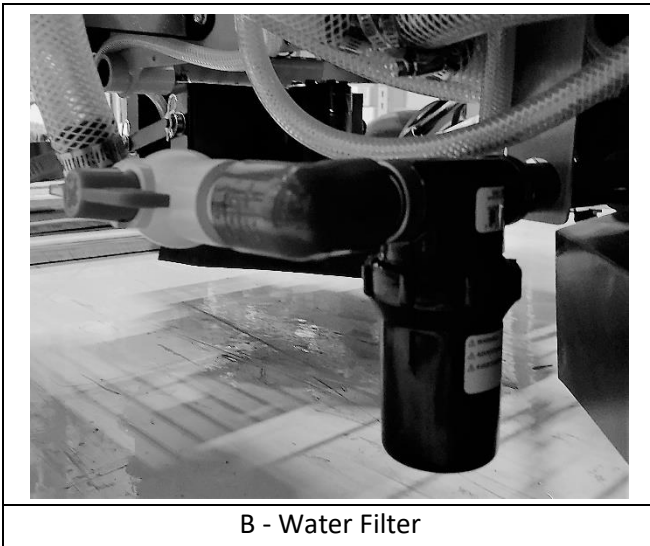


Figure 31

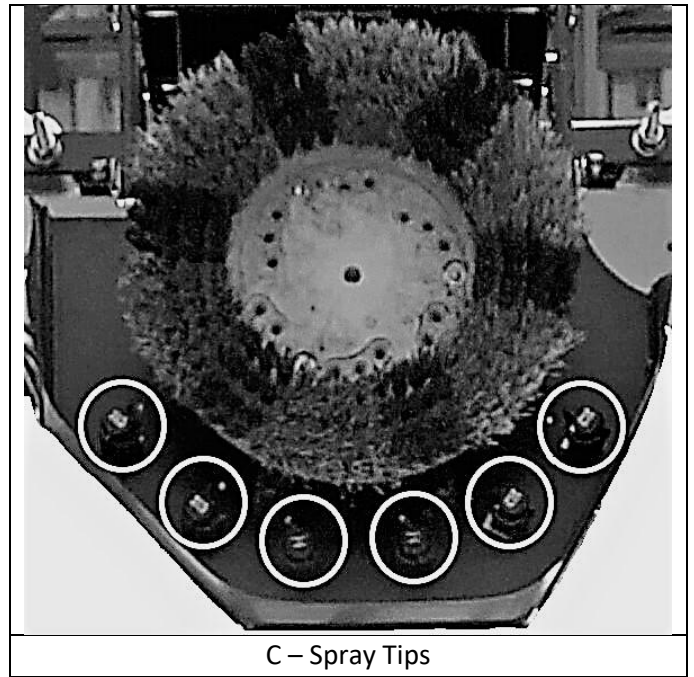


Figure 32

Brush Issues

If the brush will not raise

1. Check main fuse – [Figure 33]

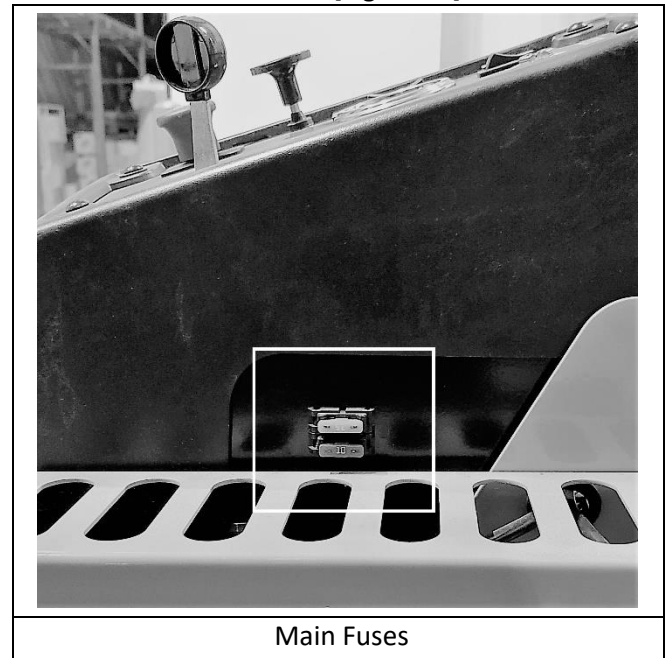


Figure 33

Hydraulic Drive Release

This unit is equipped with a method to release the hydraulic pressure to the drive wheels so the unit can be moved manually. There is a “ring pull” lever that is built into each drive wheel transmission. By activating this “ring pull”, this will disconnect the hydraulic power to the drive wheels and allow the unit to be pushed by hand.

1. Locate the hydraulic drive transmission manifolds under the engine. [Figure 34]
2. Find the “ring pull”. [Figure 35]
3. Pull the ring towards the rear of the unit.
4. Move towards the wheel to lock.
5. Move machine to desired location.
6. Re-engage the transmission by moving the “ring pull” back in.
7. **DO NOT RUN EQUIPMENT OR ENGAGE HYDRAULIC SYSTEM WITH THE TRANSMISSION IN THE OPENED POSITION**

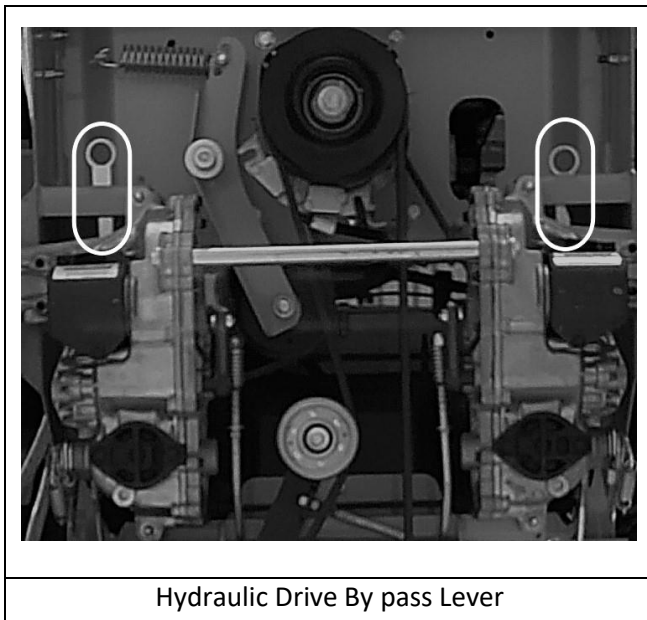


Figure 34

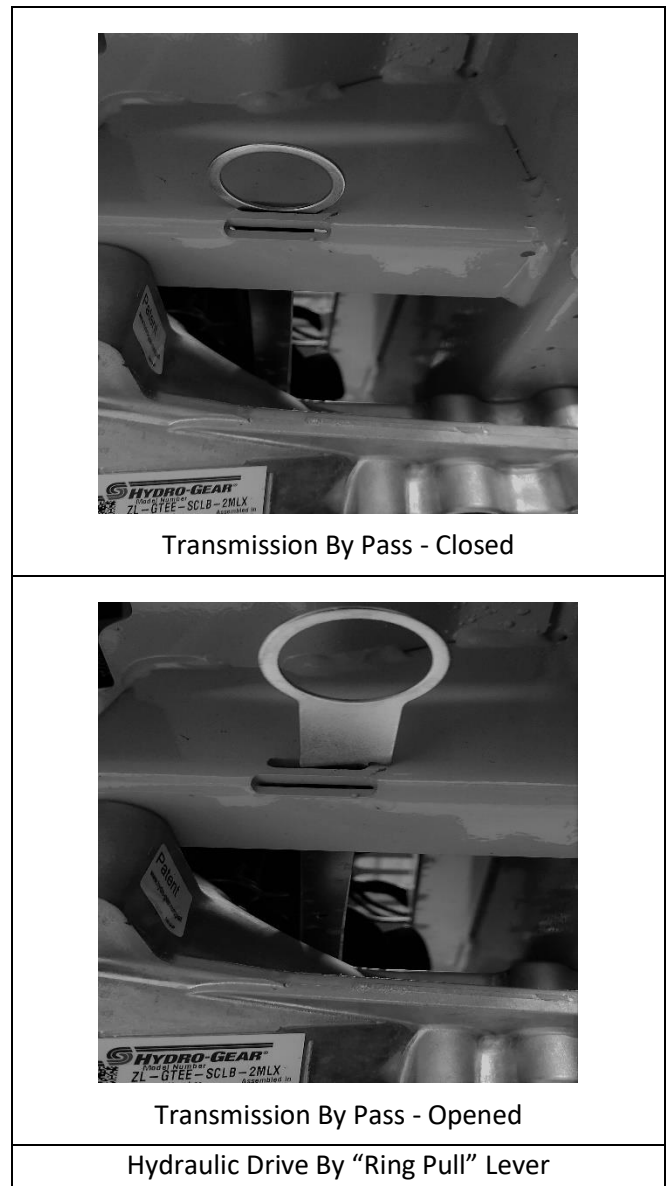


Figure 35

Blitz Pump

If Blitz solution stops spraying out of the nozzles,

1. Check the inlet tube is not clogged
2. Check pump plumbing connections
3. Check the filter is not clogged by unscrewing the bottom half of the filter unit and cleaning the screen
4. Check the wire connections on the Blitz pump—located at the rear of engine Remove any corrosion and coat with a Dielectric grease and reinstall. - [Figure 36]



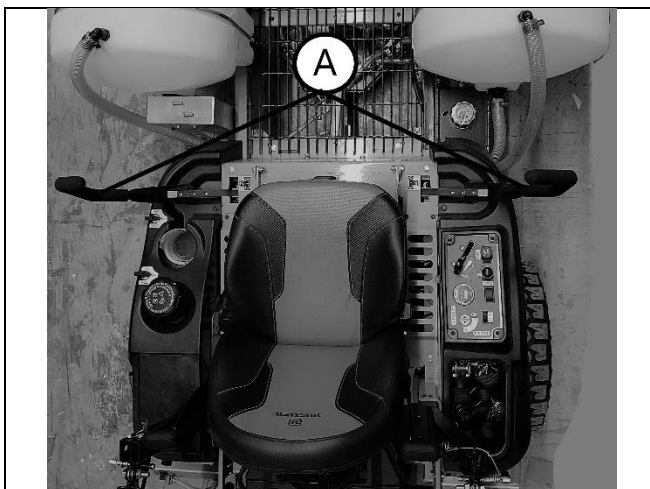
Blitz Tank Pump Connections

Figure 36

Engine Will Not Start

If the engine has not been started or is being restarted but won't turn over

1. Check Operations Manual.
2. Be sure the steering handles are in the full out position. Check the switch. [Figure 37]



A – Steering Arms (2)

Figure 37

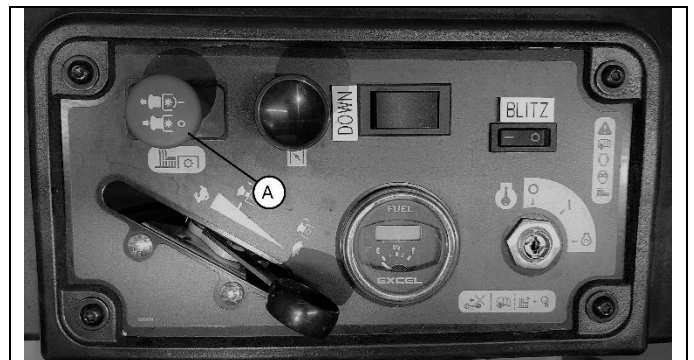
3. Check the fuses. – [Figure 38]



Main Fuses

Figure 38

4. Check that the Brush Clutch knob is in the down/ off position. – [Figure 39]

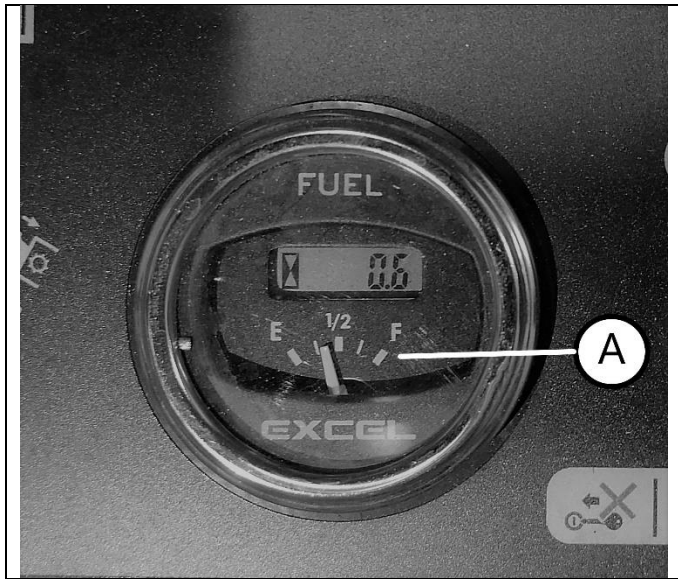


Brush Clutch Knob

Figure 39

Engine stalled while running

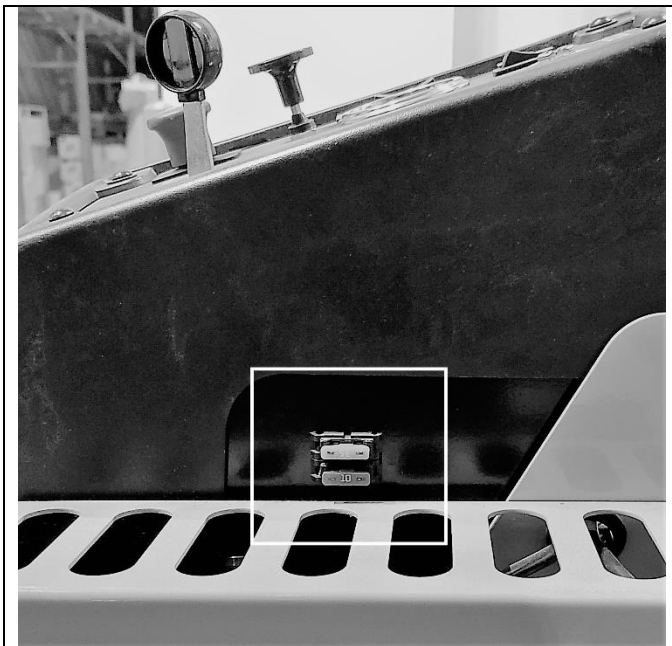
1. Check the fuel gauge. [Figure 40]



A - Fuel gauge

Figure 40

2. Check Fuses. [Figure 41]



Main Fuses

Figure 41

Spray Nozzles

If you notice a nozzle not spraying well or at all:

1. Remove head by twisting cap anti-clockwise using the flanges and pull it away from the base – [Figure 42]



Spray Head Removal

Figure 42

2. Clear debris from nozzle or replace nozzle tip
3. Remove and clean screen filter, replace (if needed)
4. Reinstall cap by lining up the grooves on the inside of the cap with the tabs on the base and turn clock-wise – [Figure 43]



Spray Head Removal

Figure 43

STORAGE

Storage for long periods

1. Drain all the water – Remove the water out of the tanks and lines by removing the inline filter and opening the water shut off ball valve.
2. Replace the inline filter and turn on the water pump to remove any remaining water in the system.
3. Fill water tanks with anti-freeze.
4. Turn on water pump until the anti-freeze sprays out all nozzles.
5. Leave anti-freeze in tank.
6. Drain any remaining Blitz Remover solution from the Blitz tank. Thoroughly flush the Blitz tank with water until clean. With clean water in the Blitz tank, turn the Blitz pump on and flush the pump, rear boom and front brush spray nozzles until clean water runs out of the tips.
7. Fill Blitz tank with anti-freeze.
8. Turn on Blitz pump until the anti-freeze sprays out all rear boom and front brush spray nozzles.
9. Leave anti-freeze in tank.
10. Remove the gas from the gas tanks and run the engine until it completely runs out of gas. Or you can put a gas stabilizer in the tanks and run for two minutes and put it away for storage.

Notes:

P-REX MINI Parts Data Sheet

<u>Part Name</u>	<u>MFG Spec</u>	<u>Pioneer Part Number</u>
Hydraulic Pump:	10565	P1050
Hydraulic Belt:	5L-620	PM1025
Hydraulic Motor:	BMP(H)-160-H4-K-P	P1050
Brush Actuators:	S#1701060169	PM2011
Water Pump#	6500C 6 Roller	PM1000
Water Filter#	3350-0034A 3/4"	P1039
Brush Diameter:	1 ea. @ 12"	PM1001
Blitz Pump:	Surflow 8000-443-236	P1003
Spray Nozzles		
Wheel:	2 ea. Green V DG80015VS	PM1022
Brush:	4 ea. Yellow V DG8002VS	P1089
2 ea. Blue V DG8003VS	PM1020	
Blitz:	2 ea. Yellow V DG8002VS	P1089
Nozzle Screen:	Blue – 100	P1088

P-REX MINI Spare Parts List

<u>PART NUMBER</u>	<u>PART DESCRIPTION</u>	<u>QTY PER UNIT</u>
PM1001	12 INCH DUAL FIBER FLAT BRUSH	1
PM2011	LINEAR ACTUATOR-BRUSH	1
PM1022	SPRAY NOZZLES (WHEEL) - GREEN	2
P1089	SPRAY NOZZLES (BRUSH) - YELLOW	4
PM1020	SPRAY NOZZLES (BRUSH) - BLUE	2
P1089	SPRAY NOZZLES (BLITZ) - YELLOW	2
PM1021	SPRAY NOZZLES (BLITZ) - RED	2
P1088	SPRAY NOZZLES SCREEN	10
0111	NOZZLE CAP - QUICK RELEASE	10
Included	SPRAY NOZZLES SEAL	10
P2019	30 AMP FUSE	1
PM1026	DRIVE (WHEEL) BELT	1
P1040	WATER PUMP BELT	1
PM1025	HYDRAULIC PUMP BELT (5L620)	1
P1047	BLITZ INTAKE TUBE	1
P1003	BLITZ PUMP	1
P1039	WATER STRAINER	1

INDEX

Belts	9	Safety Controls	2
Blitz	4	Serial Number	1
Blitz Pump	17	Spare Parts List	22
Brush Issues	16	Spray Nozzles	19
Brush Spring Clip Issues	13	Stalled Engine.....	19
Brushes	12	Starting.....	2
Controls	2	Stopping.....	2
Customer obligations	1	Storage	20
Data Sheet	21	Tires	8
Engaging Brushes	3	To the New Owner	1
Engine Will Not Start.....	18	Troubleshooting.....	15
Hydraulic Drive Release	17	Vacuum Nozzles	4
Hydraulic System	8	Warranty	1
Lubrication	8	Water	3
Maintenance Schedule	14	Water and Blitz Application.....	3
Rear Spray Boom	5, 6	Water Issues.....	16
Removal and Extractions.....	7	Water Pump Issues	16
Removal System.....	1	Wheel Nozzles.....	4
Removing Belts	10		

Notes:



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