

# SUPER SHRED 3

## Owner's Manual



**Thank You for Purchasing a Super Shred 3!**

We appreciate having you as our customer and wish you many years of safe and satisfactory operation.

**SPLIT-FIRE SALES INC.**

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# Table of Contents

<b>1. Introduction</b>	<b>4</b>
1.1 How to use your Owner's Manual	4
1.2 Product Information	5
<b>2. Safety</b>	<b>6</b>
2.1 Safety Labels	7
2.2 Operation Safety	8
2.3 Storage Safety	9
2.4 CSA Certification	10
<b>3. Operating Instructions</b>	<b>11</b>
3.1 Before Operation	11
3.2 Operation	13
3.3 Troubleshooting	15
<b>4. Maintenance</b>	<b>17</b>
4.1 General Maintenance	17
4.2 Breakers	19
4.3 Wear Parts	20
4.4 Electrical	21
4.5 Warranty	23
4.6 Technical Support Contact	24

## 1.1 How To Use Your Owner's Manual

This owner's manual is a very important part of your new machine and should remain a permanent part of it. If the machine is sold, the operator's manual must go with it.

A copy of the owner's manual must always be located in the safety canister located on the back of the machine.



By reading the owner's manual you will help yourself and others avoid personal injury and/or damage to the machine. The information recorded in this manual will help you use this machine safely and effectively.

Once you read the manual and know how to operate the machine safely and correctly, others can read and be trained to operate the machine. The machine that is used in this manual for illustration may differ slightly from your model, but will be similar enough to help you understand the instructions.

Throughout this manual, "Back" and "Front" terms will be used. On the Super Shred 3 the "Back" refers to the power cord side. The "Front" refers to the side with the main electronic control panel. The terms "Left Hand" and "Right Hand" will also be used. These sides are determined when standing in front of the machine and facing the front control panel on the machine. Your machine has been tested and inspected to ensure proper performance and safety prior to leaving the factory.

## 1.2 Product Information

This product can be identified by the model sticker on the front of the machine (Super Shred 3).

### Main Specs:

Footprint: 36" X 36"

Capacity: 150 Liters

Shredder Size: 10"X12"

Shredder HP: 3 HP

Shredder RPM: 20 RPM

Shredder Rotor Thickness: 1/4"

Shredder Rotor Material: 4140

Shredder Spacer Material: 4140

Shredder Scraper Bar Material: 304 SS

Shredder Shaft Material: 304 SS

If you ever need to contact your dealer or the manufacturer for parts or questions regarding the operation or servicing of the machine, it is important to have the model number as well as all the necessary identification numbers.

Date of Purchase:

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Dealer Name:

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Dealer Phone Number:

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Frame Serial Number:

(Note: the serial number consists of the year/month of manufacture followed prefixed the model unit number.)

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## 2. Safety

Please carefully read and understand the warnings about safety concerns relating to machine damage and important servicing information. Please read all these messages to avoid personal injury and machine damage. The three main messages will start with:

**WARNING!!!** which suggests, a strong chance of personal injury or death to the operator or bystanders if procedures are ignored.

**IMPORTANT:** which suggests, a strong chance of potential damage to the machine may occur if procedures are ignored.

**NOTE:** which suggests, helpful information for proper operation and service

## 2.1 Safety Labels

The machine safety labels shown in the section below are very important. They are placed in areas on the machine that draw the attention of the operator to potential safety hazards on the machine. If at any time the stickers are removed, or come off during operation, contact your dealer or the manufacturer immediately for replacement decals.

The sticker graphic and explanation, details the potential safety hazards associated with each decal. Special attention should be given to these recommendations, they are outlined for your safety.



SS3-1



SS3-2



SS3-3



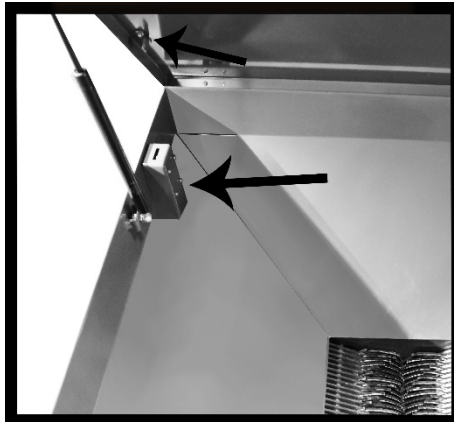
SS3-4

## 2.2 Operation Safety

### Warning!

DO NOT override, disconnect or customize safety switches in any form. This machine has been manufactured for safe operation with safety switches in place.

This machine uses safety switches on all compartment doors. If for any reason, switches wear out, break or become nonoperational, this machine must be disconnected and locked out until the safety switch is fixed and operational.



### Important:

This machine must only be used with soft organic material. Soft organics are products such as plant material, soft stems, fruit, meats, soft waste or any type of soft non-rigid material.



## 2.3 Storage Safety

### Important!

When storing your Super Shred 3 special attention should be drawn to the areas listed below.

#### 2 Weeks - 1 Month Storage

Before storage it is important that the machine is clean. Any time the machine is left for more than 2 weeks, the machine must be cleaned thoroughly. The cleaning process must include cleaning the upper hopper, degreasing shredder rotors and scraper bars, and removing any remnants from below the shredding box. It is also important to turn off the master switch and lockout the machine, so accidental operation cannot occur. When the machine is removed from storage, and prepared for operation, a safety switch inspection must occur. After a safety switch inspection, the machine is ready for operation.

#### 1+ Month Storage

All the steps must occur as with the 2 Week – 1 Month Storage cycle. It is important to ensure that the machine is clean to prevent any corrosion or drying of material to machine surfaces. It is also important to turn off the master switch and lockout, so accidental operation cannot occur. In addition to switch inspection upon restarting after inspection, the gearbox oil level must be checked, belts inspected for dryness, and spur gears greased. (see page 11).

## 2.4 CSA Certification

This Super Shred 3 has been CSA Certified for use in any province in Canada. A CSA inspection sticker will be placed either on the front electrical panel, or on the back on the Super Shred 3.



Any modifications to the electrical or mechanical systems without approval from Split-fire on the Super Shred 3 will result loss of warranty coverage and CSA certification. If any modifications are completed, the Super Shred must be re-CSA certified. CSA certification ensures electrical and operator safety for Super Shred 3.

## 3.1 Before Operation

It is important to ensure the machine is ready for operation. There are several things to check before safe operation is ensured.

1. Always check to make sure scheduled maintenance has been completed on the machine. If the maintenance is not up to date, it must be completed before any operation continues.

Schedule maintenance includes gear oil changes, greasing of gears, and scheduled cleaning. Details can be found on page 17. It is important that the scheduled maintenance is completed before operation, or serious damage could occur.

2. Check the plug to make sure it is properly attached and that it is fully seated in the wall housing.

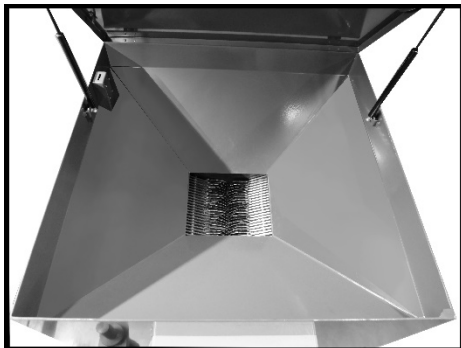


The power cord must be plugged in behind the machine, without obstruction to the operator and the waste cart.

**WARNING!!!** - The power cord must not be stepped on, or driven over with any carts, pump carts, or forklifts. If this occurs, serious injury or death could occur.

## Operation

3. Check that the top hopper is empty before operation to ensure no hazardous or non-organic materials are enclosed. Remember – this shredder is only to be used with soft organics.



4. The lid can then be closed, and a roller bin / waste bin must be placed under the shredder.



5. The machine must then be turned on and cycled with no material for 10-30 seconds. The shredder should run quietly, other than slight vibrations from the motor and gears.

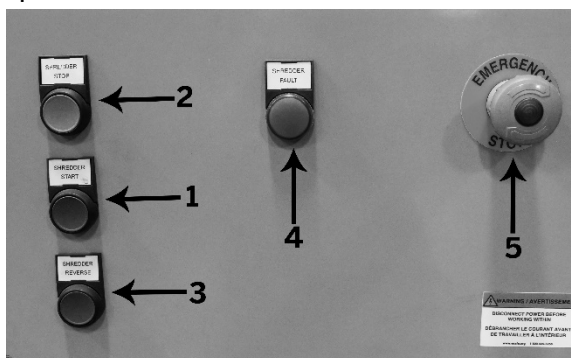
If any abrupt, loud or abnormal noises are observed. Immediately turn off the machine. Contact a maintenance specialist or Split-fire so the issue can be solved

After these steps have been completed the machine is ready for operation.

## 3.2 Operation

Ensure that the “before operation” page has been read and completed.

### Control Panel Operation



1. Start – This button will start the shredding operation. Once the button is pushed, the shredder will continue to operate. The shredder can be stopped by either opening the lid, or pushing the stop button
2. Stop – This button will stop the shredding operation. Once the shredder is operating, the Super Shred 3 can be simply stopped by pushing this button. Opening during the lid during operation will also cause the machine to stop, effectively completing the same function as pushing the stop button.
3. Reverse – This button will cause the shredder to reverse if there is a jam. This button is momentary and will only operate the machine if it is being pushed. Once it is released, the Super Shred 3 will automatically come to a stop.
4. Electrical Fault light – This light will illuminate if there is an electrical fault. If the shredder has been jammed, or there is a short circuit, a breaker can flip, and this light will illuminate. For this light to be reset, an authorized maintenance employee or electrician will need to open the front panel, and the breaker will need to be reset.
5. Emergency Stop – This button will stop the machine in the case of an emergency. This button can be quickly hit in an emergency. If the emergency stop has been pushed, it will illuminate. To reset this button, pull and twist lightly.

1. Operation can be started by opening the top lid and filling the top hopper with material (Soft organics only). It is important to not pack material into the hopper. If the material is packed tightly, it will stack/jam and not feed through the shredder properly.

In most scenarios, a mixture of leafy and stringy stems feed best. After initial operation, an appropriate SOP can be created for what best suits the material being shredded.

2. After the top hopper has been filled to the appropriate level, the lid can be closed, and the start button can be pushed. The start button actuates the shredder. This will cause the shredder to pull in material and will start depositing shredded material into the waste cart.
3. As the shredder processes material, it is important to see shredded material falling into the waste cart. The shredding action can also be viewed from the window in the lid. If the material is not feeding, a light push with the push pin can be enough to reinitiate feeding.

If material cannot be seen falling into the waste cart, see page 15, troubleshooting.

4. The shredder will empty the top hopper in 1-3 minutes of operation, depending on the material. After the shredder has processed all the material and emptied the top hopper, the procedure can be repeated as many times as needed.
5. The operator must be vigilant of the waste cart fill level. If the waste cart fill level is not observed, it could overflow. If the waste cart overfills, a shredder jam may occur as there will be no space for waste material to be ejected.

Once the waste cart has been filled, it can be emptied in the appropriate location, and repositioned under the Super Shred 3. This procedure must be repeated as many times as needed.

## 3.3 Troubleshooting

### 1. Shredder is not feeding material

- The shredder may not be feeding for several reasons. The most common reason is due to an overfilling / packing of material in the top hopper. The operator can try to push the material into the shredder teeth using the push stick. In certain cases, this may not work. When that occurs, the material must be removed, and smaller / lighter loads must be placed in the top hopper.

### 2. Shredder jam

- If the shredder jams, the machine has been overloaded and must be cleared for operation. This usually occurs when the shredder pulls in too much heavy material, or the waste cart is overfull and the waste has no where to eject.

To unjam the shredder, the reverse button must be actuated for 10-30 seconds. Then open the lid and move the heavier material from the bottom of the hopper to the top and look for any foreign material. If no foreign material is present, the jam was most likely caused by a large amount of hard stalky material. The lid can be closed, and the shredder can be restarted.

### 3. Shredder does not operate after a jam

- The shredder has jammed and has been cleared as in step 2 but does not operate when start or reverse is actuated.

During the jam, the breaker has been triggered. The Electrical Fault light will be illuminated if this has occurred. This can be fixed following the breaker reset protocol under 4.2 Breakers.

### 4. Shredder constantly jams

- The shredder will constantly jam if it is always being overloaded with heavy material. Soft Organics such as Cannabis are extremely fibrous and stringy and require high torque and HP for operation. By lightening the loads in the top hopper, the shredder will grab less material. This will allow it to operate under less load and jamming will not occur.

If after years of operation jamming is occurring under exceptionally light loads, the wear parts may need to be replaced. Shredder rotors and scraper bars are a wearable item. If this occurs read (Page 20, Wear parts). These items need to be inspected. If they are worn and replacements are needed, call technical support.

## 5. Shredder is not pulling in material / pulling too much material

- The shredder teeth are designed to pull in material, however there are scenarios that could cause issue.

The material is not feeding from the top hopper into the shredder teeth. This will occur when the hopper is filled to full and the material “stacks” in the hopper and does not feed properly. To reduce this issue, remove material from the hopper, and fill the hopper to a lower level. Also, if “stacking” is occurring, it is important to not pack or compact the material in the top hopper before the lid is closed and the shredder is started.

The shredder is pulling too much material and is constantly tripping the breaker. This usually occurs when stringy / stem material is being shredded. Due to the stringy nature of the material, once the shredding teeth engage the material, it continues to pull more material into the shredder. This can be solved by loading less material into the top hopper. To maintain shredding production, a mix of stringy stems and leaves can be mixed to reduce feeding/overloading issues.

## 6. Emergency Stop light is ON

- The Emergency switch will illuminate when the shredder is in emergency stop mode. To place the Super Shred 3 in operation mode, pull and twist the emergency stop lightly. This will allow it to “pop out” into operation mode. If the red light remains ON, an electrical fault within the safety circuit is being observed. Request a technician for observation or call technical support at Split-fire for assistance.



## 4.1 General Maintenance

### 1. Gear Oil

This machine has 1 gear reducer, which needs maintenance at regular service intervals.

Change interval: 2500 Hrs.

Oil Type: 80W-90

If the daily average use is 2-4 hours, the gear oil should be changed every 2 years.

Method: Remove lower front cover on Shredder (10 - ¼" x 20 button head bolts). Then remove the drain plug so all gear oil can drain. Replace the drain plug (Thread seal plug to ensure a proper seal). Then refill the gearbox with 80W-90 gear oil via the plug at the halfway point on the gearbox. Easiest fill method is typically completed with a gear oil bottle and hose. Do not overfill past the halfway point on the gearbox. When complete, replace the plug in the side of the gearbox. Gearbox service is then complete.

### 2. Greasing

This machine has 1 grease fitting. The grease fitting is located on the back, in the center of the machine. Greasing **must** be done while the machine is running.



Grease interval: 100 Hrs

Grease amount: 10 pumps

Grease type: Lithium Multi purpose grease

If the daily average is 2-4 hours, the machine should be greased every 2 months.

### 3. Cleaning

This machine must be cleaned/degreased every week under regular use circumstances. Soft organics will leave residue, resins and stains. Both the hopper and shredder box must be washed with a warm soapy water or a pressure washer. Cleaning agents can be used unless the cleaning agent is highly corrosive.

**IMPORTANT:** Be aware of the corrosive nature of the cleaning agent being used. The proper PPE must be worn to prevent serious injury, and the work area must be well ventilated to prevent a buildup of harmful fumes.

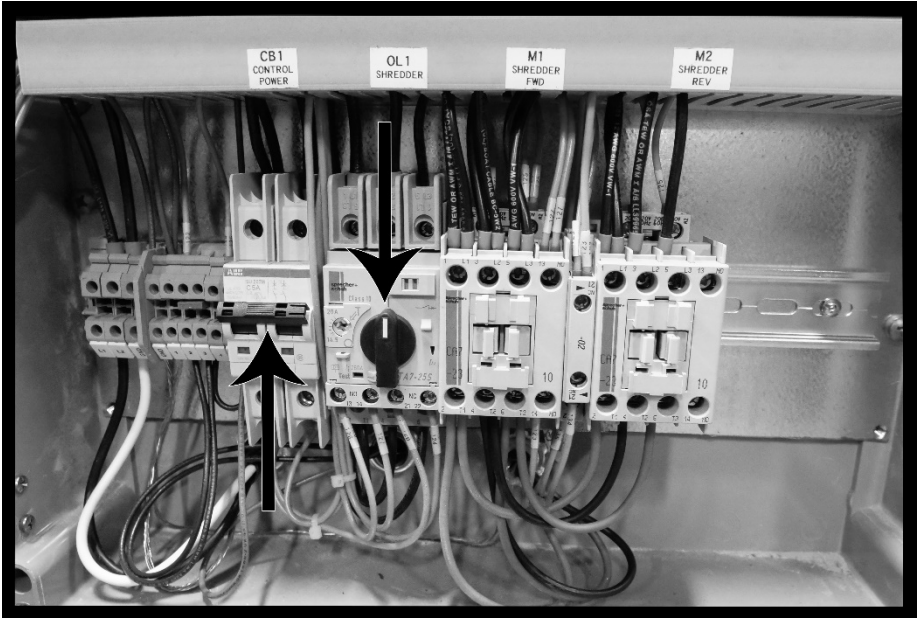
**IMPORTANT:** Be aware of the corrosive nature of the cleaning agent being used. If the corrosive agent in the cleaning agent is too strong, it may corrosion damage to the Super Shred 3. Corrosion damage can remove surface coatings and can cause premature corrosion on uncoated parts such as the 4140 rotors / spacers, or stainless-steel wear components.

## 4.2 Breakers

The Super Shred 3 will show a breaker fault by illuminating the Electrical Fault Light on the main control panel. This light will illuminate if there is either a breaker trip, or a general wiring fault.

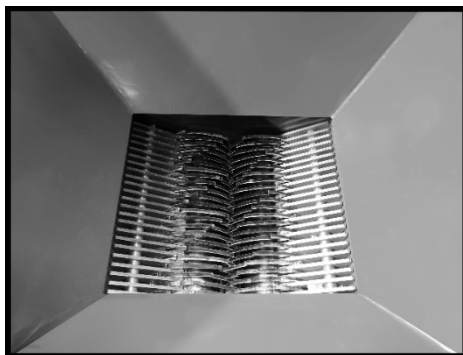
This machine has been configured with 2 different sets of breakers for operator and machine safety.

These breakers are in the control box in the front of the machine. There are 2 breakers, 1 for the shredder circuit and 1 for the 12 volt start/stop circuit. Only authorized maintenance specialists or certified electricians must open and work in this electrical box. The power to the unit must be disconnected and the machine must be locked out via the disconnect switch on the back of the machine. The electrical box cover must be removed by loosening the 4 bolts in the corners. When the electrical box is opened, breakers can be reset/flipped into the ON position. If the breakers are in the ON position upon opening the control box, a wiring fault must be tracked pinpointed. Once the breakers have been reset, or the wiring fault observed and fixed, the electrical box can be closed, power restored, lockout removed, and operation can resume.



## 4.3 Wear Parts

Super shred machines have wear parts located in the shredding unit. These parts are important for proper operation. If the machine begins to lose performance these parts will need to be replaced.



### Shredder Rotors

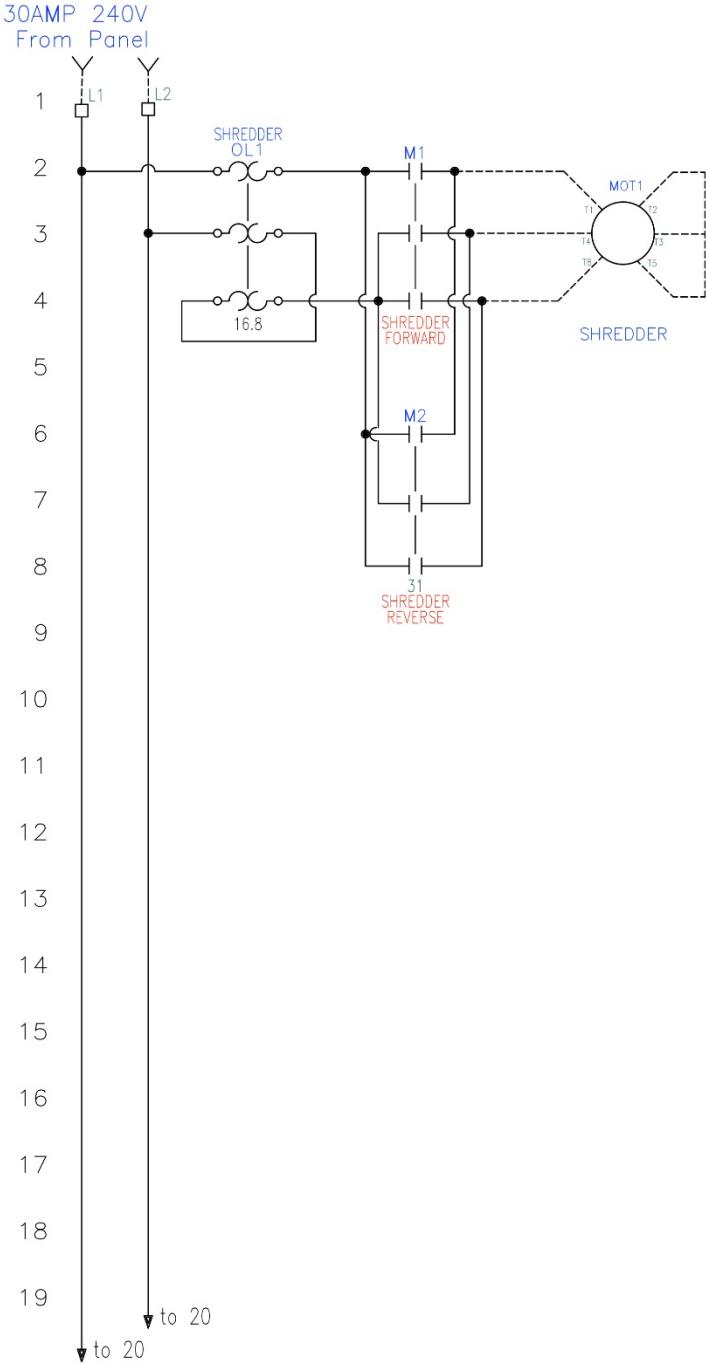
- The rotors will lose sharpness. This will cause the grinder to lose performance. The rotors should be inspected every 3 months. If loss of performance is encountered or rotor wear is found during inspection call technical support for more info.



### Shredder Scraper Bar

The scraper bars will lose sharpness. This will cause the grinder to loose performance. The scraper bars should be inspected every 3 months. If loss of performance is encountered or scraper wear is found during inspection call technical support for more info.

4.4 Electrical





## 4.5 Warranty

Split-Fire Sales Inc. guarantees the original purchaser of any new Super Shred 3 is free of defects in workmanship or materials that may cause performance failure, subject to the conditions hereafter.

Split-Fire must be contacted before the problem on the machine has been fixed. Split-Fire will diagnose the problem and authorize any warranty work that will be allowed. If Split-Fire does not authorize service or parts are not sent from Split-Fire Warranty will not be applicable.

This guarantee is limited to a period of one year from the date of purchase. Replacement of any defective part is free of charge FOB Split-Fire sales Inc. Warranty does not cover wear / consumable parts on the Super Shred 3. Wear / consumable parts are as follows: Shredding Rotor, Rotor Spacer, Scraper Bar, Shredding Rotor Shafts.

If Split-Fire requires the parts to be returned to Split-Fire, Split-Fire will pay for that shipping.

This guarantee does not apply to motors or other parts that are manufactured and guaranteed by the manufacture thereof, nor does this apply with respect to any part or product that:

1. has original parts removed or otherwise altered without specific authorization beforehand from Split-Fire Sales Inc.
2. has had placed upon or attached to it any part or product not sold or approved by Split-Fire Sales Inc.
3. has been damaged or is not used in conformity with the applicable instruction for the machine.
4. has not been properly adjusted or maintained by the owner.
5. has been adjusted or altered to increase machine performance.

This guarantee is in lieu of and excluded all other guarantees and conditions of merchantability and fitness for a purpose. Acceptance of a Split-Fire Sales product constitutes an agreement that Split-Fire Sales shall have no liability for any special or consequential damage.

**I have read and fully understand all the Super Shred 3 Warranty Guarantee**  
**Customer/Operator Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## 4.6 Technical Support Contact

**WARNING!!!** Do NOT attempt to modify parts or fix problems with your Super Shred 3 without consulting Split-fire Technical Support. Unauthorized modifications may cause serious injury or death.

### Split-fire Technical Support

1-877-548-3473 / 519-468-3647

Extension 2 – Technical Support & Parts

Availability: Monday – Friday (8 AM – 5 PM) (Eastern Time)