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## Electronically Printed

 and Designed in the USA.| INTRODUCTION |  |
| :--- | :--- |
| SPECIFICATIONS |  |
| SAFETY INSTRUCTIONS |  |



## Introduction

Thank you for choosing this shredder from GBC. We are sure it will serve you well, but please take a little time to study these instructions to ensure you get the best out of your machine.
a Important Safety Symbols
1 Bin Full (Red Light)
b GSS208, GSX168, GSM128:
2 Door Open (Red Light)
Pull Out Drawer
GDS2213, GDX1813, GDS2219, GDX2019, GDM1013, GDHS713: Door for Bin
c Wheels
d On/Off Button (Rear of machine)
e Auto Button
f Reverse Button
g Continuous Forward Function
h CD Guide (not fitted on GDM1013, GDHS713, GSM128)

| Specifications |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Models | GSS208 | GSX168 | GSM128 | GDS2213 | GDX1813 |
| Sheet Capacity 80gsm paper - $\square$ | 17-20 sheets | 15-16 sheets | 10-11 sheets | 19-22 sheets | 16-18 sheets |
| Duty Cycle | 4 mins on / 20 mins off | 4 mins on / 20 mins off | 4 mins on / 20 mins off | Continuous | Continuous |
| Volts / Hz | $120 \mathrm{~V} / 60 \mathrm{~Hz}$ | $120 \mathrm{VAC} / 60 \mathrm{~Hz}$ | $120 \mathrm{VAC} / 60 \mathrm{~Hz}$ | $120 \mathrm{VAC} / 60 \mathrm{~Hz}$ | $120 \mathrm{VAC} / 60 \mathrm{~Hz}$ |
| Amperage |  | 4.0A |  | 3.0A | 4.5A |
| CD / Credit Card | Yes | Yes | No | Yes | Yes |
| Models | GDM1013 | GDHS713 | GDS2219 | GDX2019 |  |
| Sheet Capacity 80gsm paper - $\square$ | 10-11 sheets | 6-7 sheets | 21-22 sheets | 18-20 sheets |  |
| Duty Cycle | Continuous | Continuous | Continuous | Continuous |  |
| Volts / Hz | $120 \mathrm{~V} \mathrm{AC} / 60 \mathrm{~Hz}$ | $120 \mathrm{VAC} / 60 \mathrm{~Hz}$ | $120 \mathrm{~V} \mathrm{AC} / 60 \mathrm{~Hz}$ | 120 V AC/ 60 Hz |  |
| Amperage |  |  | 3.0A | 5.0A |  |
| CD / Credit Card | No | No | Yes | Yes |  |

IMPORTANT: ONLY INSERT ONE CD OR ONE CREDIT CARD AT A TIME.

- Models GDM1013, GDHS713 and GSM128 cannot shred CDs, credit cards, paper clips or staples.

Sheet capacity may vary with AC line voltage.

## Specifications

| Models | RSS2030 | RSX1630 | RSM1130 |  | RSX1632 |  | RSS2232 |  | RDS2250 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sheet Capacity80gsm paper- $\square$ | 20 sheets <br> (19 sheets @ 207V/50Hz) | 16 sheets <br> ( 15 sheets @ 207V/50Hz) | 11 sheets <br> 10 sheets @ 207V/50Hz) |  | 16 sheets (15 sheets @ 207V/50H |  | 22 sheets <br> (21 sheets @ 207V/50Hz) |  | 22 sheets <br> (21 sheets @ 207V/50Hz) |
| Duty Cycle - $\square$ | 4 mins on / 20 mins off4 mins on / 20 mins off4 mins on / 20 mins cff min on / 30 min off 4 min on / 30 min offContinuous |  |  |  |  |  |  |  |  |
| Volts / Hz | 230 V AC / 50Hz | 230 V AC / 50Hz | 230 V AC / 50Hz |  | 230 V AC / 50Hz |  | 230 V AC / 50Hz |  | $230 \mathrm{~V} \mathrm{AC} \mathrm{/} 50 \mathrm{~Hz}$ |
| Amperage | 1.5A | 1.9A | 2.2A |  | 2.9A |  | 1.9A |  | 1.2A |
| Models | RDX1850 | RDM1050 |  | RDSM750 |  | RDS2270 |  | RDX2070 |  |
| Sheet Capacity80gsm paper- $\square$ | 18 sheets <br> (17 sheets @ 207V/50Hz) | 11 sheets (10 sheets @ 207V/50Hz) |  | 7 sheets <br> (6 sheets @ 207V/50Hz) |  | 22 sheets <br> (21 sheets @ 207V/50Hz) |  |  | sheets <br> sheets @ 207V/50Hz) |
| Duty Cycle - $\square$ | Continuous | Continuous |  | Continuous |  | Continuous |  | Con | tinuous |
| Volts / Hz | 230 V AC / 50Hz | 230 V AC / 50Hz |  | 230 V AC / 50Hz |  | $230 \mathrm{~V} \mathrm{AC} \mathrm{/} 50 \mathrm{~Hz}$ |  | 230 V | V AC / 50Hz |
| Amperage | 2.0 A | 3.5A |  | 3.5A |  | 1.2A |  | 2.0 A |  |

IMPORTANT: ONLY INSERT ONE CD OR ONE CREDIT CARD AT A TIME.
Models RDM1150, RDSM750 and RSM1130 cannot shred CDs, credit cards, paper clips or staples

The shredder uses two rotating cutting shafts, which are driven by an electrical motor to shred paper.

## Electrical Operation

When the on/of switch on back of unit is on, and center auto button is pressed. This will illuminate the anti-jam indicator .The shredder will now be in standby mode and the "Power-on" symbol on the indicator panel will be illuminated amber. When the shredder is in standby mode and the the cabinet door is opend, the normally closed door adjar micro switch is opened and prevents power to the motor until the door is closed.. When the bag full sensor is triggered, the bag full icon will illuminate. The control board will then disable the motor circuit until the shredder bag is either cleared or emptied.

When the shredder is severely loaded down, the control board will illuminate red and disable the motor circuit.

Electrical Components
Motor - Thermally protected motor designed for continous operation.

Capacitor - AC motor run capacitor.
Poweron/Auto feed on switch - The Power on /Auto feed on switch, when depressed, connects the hot and neutral circuits to electrical components of the shredder.

Door ajar, Machine head safety switch - The safety switch is a normally open micro switch which is actuated by a trigger located inside of the cabinet door. The switch is normally closed when the door is closed and when the machine head is installed on the cabinet.

Bag Full Flap Sensor - The Bag Full Sensor is a normally closed switch actuated by paper blocking sensor path. When the shred bag becomes full of shredded material, the bag full sensoris blocked and power is then removed from the motor circuit.

Paper Sensors - Located in the throat area consisting of two components, the emitter and receiver.

Emitter - The infrared light beam from the light emitting diode is sensed by the receiver to activate/deactivate the control board.

Receiver - The receiver is a light activated diode, which works in conjunction with the emitter to activate/deactivate the control board.

Testing Electrical Components

## A WARNING! <br> Always disconnect the power cord from receptacle before making continuity or resistance tests.

## Switches

Set meter to read resistance. Check switches for continuity from common to closed contacts and infinity from common to the open contact.

Emitter - Set meter to the diode setting. Disconnect emitters from the control board. With the positive meter probe on the emitter wire and the negative meter probe on the black-stripped emitter wire, check for approximately .639 ohms. Reverse the meter leads and infinity should be read.

Receiver - Set meter to read 20M ohms. Disconnect the receiver from the control board. With the positive meter probe on the receiver wire and the negative meter probe on the receiver wire check for approximately 4.62 Mega ohms under normal room light. The resistance will increase when blocked. Reverse the meter leads and infinity should be read.

## General Troubleshooting

Malfunction corrections are based on visual observations made by the operator. The causes of the malfunctions are isolated by the symptom of the malfunction and noting at which point in the operating cycle the malfunction occurred. Malfunctions may be pinpointed to a defective electrical component or mechanical part by referring to the Principles of Operation, the troubleshooting guide and the wiring diagram.

## Troubleshooting Chart

The troubleshooting guide chart that follows is arranged in order of the normal operational sequence. When a malfunction occurs, read down the SYMPTOM column until you find the appropriate description for your symptom. Read the corresponding PROBABLE CAUSE, then perform the recommended procedure in the CORRECTIVE ACTION column. When replacing electrical components that have push on terminals, label the electrical leads that were removed, to facilitate reconnect ing them. Refer to the wiring diagram in Figure 5.7 to resolve any wiring difficulties that may occur.

WARNING!
Always unplug the shredder to avoid possible electrical shock hazard before attempting to perform any repairs.

| Power Cord Disconnected. | Connect Power Cord |
| :--- | :--- |
| Power switch Defective | Replace Power Switch |
| Main Board Defective | Replace Main Board |

Shredder Does Not
Operate, With Indication
Of Power Present

Shredder Does Not
Defective Capacitor
Replace Capacitor
Operate, (When Paper Is
Present In The Throat)
Shredder Does Not
Power Cord Disconnected.
Connect Power Cord
Operate, No Indication Of Power

Main Board Defective

Shredder Head Not Reposition Shredder Head Installed Properly

Cabinet Door Open
Close Door
Shred Bag Full Empty Bag
Motor Thermal Cut Off Triggered

Door Switch Defective
Replace Door Switch
$\begin{array}{ll}\text { Motor Defective } & \begin{array}{l}\text { Check Motor Input Voltage } \\ \text { Replace Motor If Necessary }\end{array}\end{array}$
Emitter/Receiver Defective

Main Board Defective

Shredder Runs
Continuously
Dust Or Scratch On
Emitter/Receiver
Defective Control Board
Replace If Necessary

Emitter/Receiver Defective
Replace If Necessary

Sheet Capacity
Diminished

Dry Blades

Dull Cutters

Worn Bearings

Lubricate Cutters
Replace Cutters



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## Necessary Tools

1. Adjustable wrench
2. \#2 Phillips Screwdriver

Disassembly of the shredder is described in the following steps.

Bottom Housing Removal


## WARNING!

Disconnect the unit from the receptacle before performing any disassembly procedures.
1.Unplug the power cord from the outlet power supply.
2.Open cabinet door and remove the 5 philip head screws that secure shredder head to cabinet base.
3.Remove shredder head from cabinet by sliding it towards you. Lay the unit upside down with the back of the head facing up. 4.Remove the eleven phillip head screws supporting the bottom housing
5.Flip unit over so top housing is facing up. Remove top cover.


## 1.Complete Section, Bottom Housing Removal.


2.Remove the capacitor and six phillips screws that attach main board to bottom housing.
3.Remove the four philip screws that secure the cutting head to the bottom base.
4.Remove the ground wires from the right hand side frame. Also disconnect any wires from main board that are mounted to cutting head assy.

4.Carefully rotate the complete cutter assembly toward you and place the underside of the cutter assembly on your work area.

Gear Box Removal


1. Remove the six phillips screws from the gear box cover.
2. Remove the gear box cover

## Motor Removal



1. Remove both metal and nylon double drive gears.
2. Remove the eight philips screws that secure the motor in place, remove motor.

## External Cleaning

Make sure you disconnect the shredder from its power source before cleaning. The cover and cabinet may be cleaned with a soft cloth moistened with a mild detergent and warm water. Do not use chemical cleaners or solvents as these may have a harmful effect. Use detergent sparingly to avoid contact with electronic components.

Inspection
Whenever the cover has been removed for corrective maintenance, visually inspect for defects such as loose screws or nuts, damaged wire insulation, loose terminals, etc. Correct any defects before returning the shredder into service.
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