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Ranger Ripper plan is to create a way for the messages captured by the ranger from the Remus 100 to be sent to an Arduino computer then displayed and passed to the mission laptop simultaneously.

Ranger Ripper

User Manual

# User Manual – Ranger Ripper

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Contents

[User Manual – Ranger Ripper 1](#_Toc128127917)

[1. Introduction 2](#_Toc128127918)

[2. Set up 2](#_Toc128127919)

[3. Operations 2](#_Toc128127920)

[4. Troubleshooting 2](#_Toc128127921)

# Introduction

The Ripper Ranger is a product designed to be attached to the REMUS Ranger unit. This has been designed for record keeping. The Ripper will automatically print out the relevant information received by acoustic communication from the Ranger along with the relevant GPS information of the Ripper’s position and the time the message is received. This system has been designed to be used with the REMUS 100 AUV (Automatic Underwater Vehicle)

# Set up

The setup of the Ripper is simple.

1. Connect the Power. If this is done correctly the printer will print “System is ON”
2. Connect the Serial Cable from the Ranger to the Ripper. Once the Ripper receives the first message from the ranger the "Ranger messages are being received" (It is important that the Ripper is powered on before the Serial cable is connected

# Operations

The Ripper only has one operation. The operation is to print out the messages from the ranger which are received by the REMUS 100.

# Troubleshooting

There are a few issues that may occur. If these issues are not listed or the solution doesn’t work please contact the manufacturer or read the Reference Manual for more information.

1. The Thermal Printer may run out of paper. It requires a [thermal paper roll - 50' long, 2.25" wide](http://www.adafruit.com/product/599). This can be purchased from many office supply stores.
2. Battery runs out. This can be solved by recharging or replacing the battery.
3. No messages being received. This can be solved by unplugging the power and serial cables from the Ripper. Wait 30 seconds and restart the Set-up steps again. Make note that the Ripper must be powered on before the Serial cable is connected.