

# Weld Air

## OPERATION & SAFETY

SWA-100



**INNOVATECH**  
ENGINEERED TO DO MORE.

Innovatech Manufacturing  
4360 N WECCO Rd  
Cedar City, UT 84721  
<https://innova.tech>

**SWA-100**

SWA100-MNL01-R00

# Document Information

---

## Revision Log

Produced by: InnovaTech Manufacturing  
Product: Weld Air Operation and Safety Manual  
Manual Product Code: SWA100-MNL01-R00  
Version: First Production  
Production Date: July 14, 2023

## This Manual

This manual is intended as a basic source of information on the safe operation and maintenance of InnovaTech Manufacturing's Weld Air. This manual provides general information as well as specific warnings, instructions, and information that workers using this machine must read, understand, and follow.

This manual is not intended as an all-encompassing "rule-book" on operation safety. Instead, InnovaTech Manufacturing presents this information as a reference and guide only. It is the purchaser's and operator's responsibility to identify specific safety hazards and determine proper procedures to prevent those hazards from inflicting injury.

Safety is paramount in the operation of this machine. A copy of this manual should be made available to all persons using this machine. This manual is available online at <https://innova.tech>.

All information in this manual is based on the latest product information at the time of publication. However, there may be design improvements from time to time so that photographs, text, and sketches within the body of this manual may not exactly match your machine. InnovaTech Manufacturing's responsibility, financial or otherwise, for any consequences arising out of the use of this manual or its machine is limited by our product warranty. The information contained herein is subject to change, and revisions may be issued to advise of such changes. InnovaTech reserves the right to make product changes at any time without obligation.

This manual contains subject matter to which InnovaTech Manufacturing has proprietary rights. Recipients of this document shall not duplicate, use, or disclose information contained herein, in whole or in part, for any use other than for machine operator use and for training personnel on safe operation and maintenance of this machine.

If you have any questions or concerns about the content of the WeldAir Use and Safety Manual or, if you would like to request updated information, we want to hear from you.

Please contact us:

<https://innova.tech>

[support@innova.tech](mailto:support@innova.tech)

**INNOVATECH MANUFACTURING**  
**TECHNICAL PUBLICATIONS**  
4360 N WECCO RD  
CEDAR CITY, UT, USA 84721

PATENT PENDING

©2023 InnovaTech Manufacturing. All Rights Reserved.

# Table of Contents

---

Document Information .....	II
Revision Log .....	II
This Manual .....	II
1. Safety .....	2
1.1 Safety Alerts .....	2
1.2 Safety Considerations .....	2
2. Overview .....	2
2.1 General .....	2
3. Operation .....	3
3.1 General .....	3
4. Specifications .....	3
General .....	3
Dimensions .....	3
Weight .....	3
Capacity .....	3
Functions .....	3
Welder .....	3
Air Compressor .....	3
5. Maintenance .....	3
5.1 General .....	3
5.2 Weekly Maintenance .....	3
5.3 Modifications .....	3
Appendix A: Decals and Labels .....	4

## Document Information

### 1. Safety

### 2. Overview

### 3. Operation








### 4. Specifications

### 5. Maintenance

### Appendix

# 1. Safety

## 1.1 Safety Alerts

Hazard Level	Signal Word	Signal Color	Signal Symbol	Signal Example	Signal Meaning
Extreme	DANGER	RED			<b>DANGER</b> indicates a hazardous situation which, if not avoided, <b>WILL</b> result in death or serious injury.
High	WARNING	ORANGE			<b>WARNING</b> indicates a hazardous situation which, if not avoided, <b>COULD</b> result in death or serious injury.
Medium	CAUTION	YELLOW			<b>CAUTION</b> indicates a hazardous situation which, if not avoided, <b>MAY</b> result in moderate injury.
Low	CAUTION	YELLOW	no symbol		<b>CAUTION</b> (without a symbol) indicates a hazard or practice not related to personal injury.

## 1.2 Safety Considerations

The Weld-Air contains a welder that can produce high electrical current and an air compressor that produces compressed air up to 120 psi. Appropriate precautions should be taken.

Refer to the Lincoln Welder manual and the Oasis Air Compressor manual for specific Safety concerns relating to the welder or the compressor of the Weld-Air.

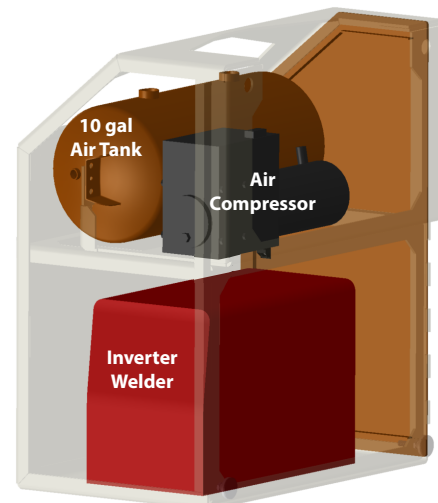
# 2. Overview

## 2.1 General

The Weld-Air (SWA-100) was engineered to make welding from a boom lift more safe and efficient. It is a 2-door steel encasement that houses an air compressor, an air tank, and an inverter welder.

The Weld Air is approved for a Snorkel boomlift. It is powered by the batteries and a 20KW generator of the Boom Lift. Cables and hoses can be installed in the boom of the boomlift conveying power and air from the WeldAir to the manbasket. These cables and hoses can be uninstalled and the Weld-Air removed when necessary.

## 2.2 Nomenclature



# 3. Operation

## 3.1 General

The Weld-Air houses a Lincoln Welder that is intended to be wired to a Boom Lift generator. There are no modifications to the welder. Refer to Lincoln’s operation manual for specific operating instructions.

The Weld Air contains a 12 Volt Oasis air compressor with a 10 gallon air tank. Refer to the Oasis operation manual for specific operating instructions. Air pressure can be set by an adjustable tank mounted

pressure sensor. A rocker switch on top of the Compressor turns it on or off.

## 3.2 Operating the WeldAir

1. Start the Boom Lift.
2. Open the door and turn on Welder and Air Compressor. Close door tightly.
3. When shutting down Boom Lift, turn off welder and air compressor and close door tightly.

# 4. Specifications

## General

### Dimensions

Length ..... 2 ft. 10 in.  
 Width ..... 23 in.  
 Height ..... 3 ft. 3 in.

### Weight

Weight ..... 480 lbs

### Capacity

Air Tank Capacity ..... 10 gallons

## Functions

### Welder

Brand .....Lincoln

Model ..... FlexTec-350  
 Input Power ..... 1 or 3 phase  
 Voltage .....220-480 Volt  
 Power Source ..... 20KW Generator

### Air Compressor

Brand .....Oasis  
 Model .....XD4000-12  
 Duty Cycle..... 100%  
 Voltage ..... 12 Volt  
 Amperage ..... 190 amps  
 Flow Rate ..... 8 cfm @100psi  
 Power Source ..... Boom Lift Batteries

# 5. Maintenance

## 5.1 General

**CAUTION** **IMPORTANT!** If the WeldAir does not operate properly, turn it off immediately! Tag it “Out of Service.” Report the problem to the proper maintenance personnel. Do not operate the machine until it is safe for operation.

## 5.2 Weekly Maintenance

Drain the moisture from the air tank weekly by pulling the drain valve on the bottom of the tank.

## 5.3 Modifications

Do not modify the Weld-Air.

## Appendix A: Decals and Labels

Decal and Label Chart			
Decal ID	Qty	Decal Visual	Decal Application
INN-SWA-100-LM01-V01	1		
INN-SWA-100-LM02-V01	1		
INN-SWA-100-LM03-V01	1		
INN-SWA-100-LM03-V01	2		
INN-SWA-100-OP02-V01	1		
INN-SWA-100-OP01-V01	1		

INN-SWA-100-DL01-V01	1		
INN-SWA-100-DL02-V01	1		
INN-SWA-100-DL03-V01	1		
IINN-SWA-100-DL04-V01	1		

# INNOVATECH

ENGINEERED TO DO MORE.

Innovatech Manufacturing  
4360 N WECCO Rd  
Cedar City, UT 84721  
<https://support.innova.tech>

