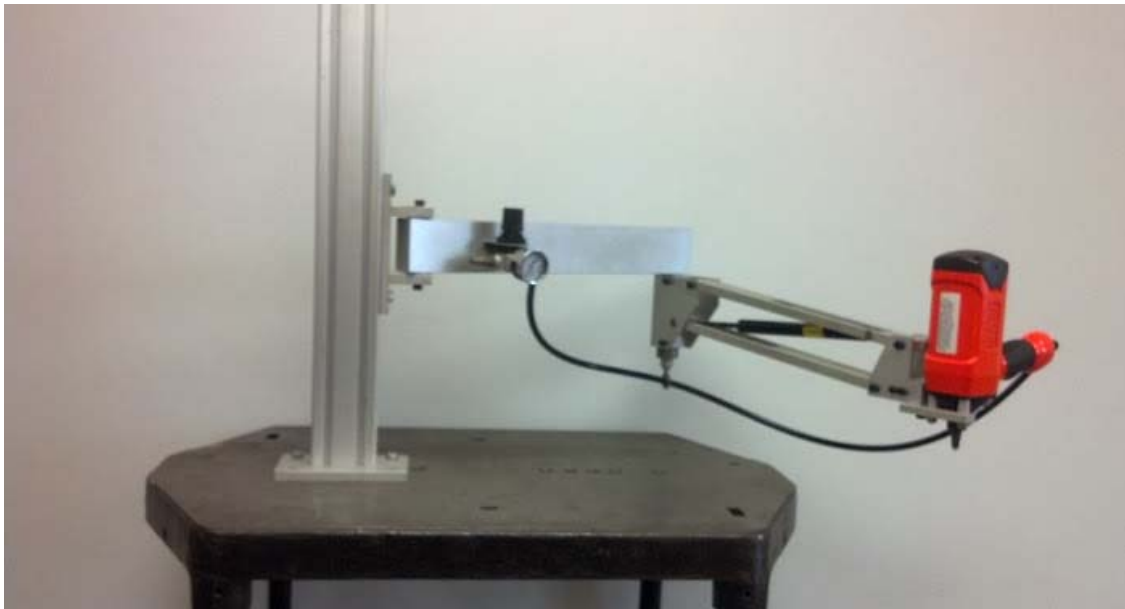




# STRONG ARM WORK STATION 20307 INSTRUCTION MANUAL



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## **INTRODUCTION**

The strong arm work station converts the Model #211 Amtak air tool to a versatile operator friendly work station. With the assistance of a compressed gas spring counter balance, the Strong Arm orientates the tool perpendicular to the work surface. This reduces operator fatigue while keeping the tool accessible. In addition, fastening is more consistent because operator influence on the assembly is reduced. The Strong Arm is perfect for applying fasteners to a variety of different shaped parts and the one hand operation allows assemblies to be held while fastening.

## **OPERATOR SAFETY**

Proper safety precautions must be observed with any piece of equipment. This section contains several guidelines designed to ensure operator safety. Follow these directions at all times.

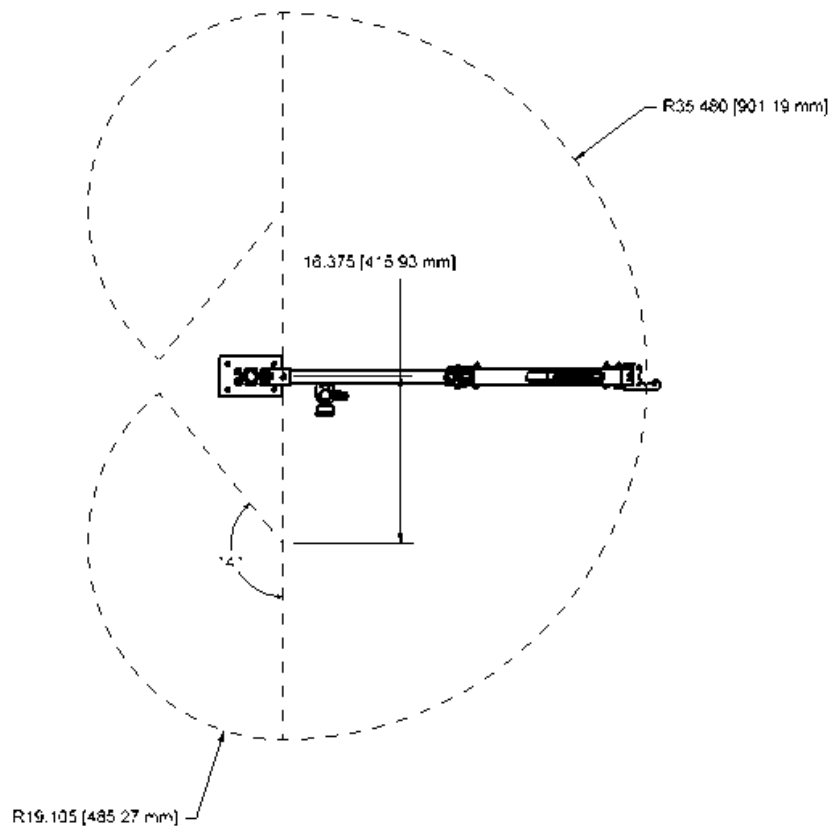
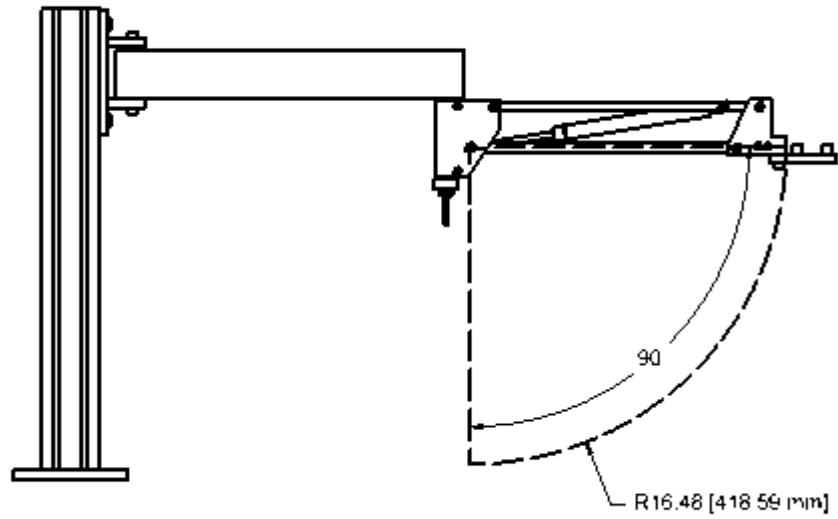
**REMEMBER—SAFETY FIRST!**

## **FIVE SAFETY RULES**

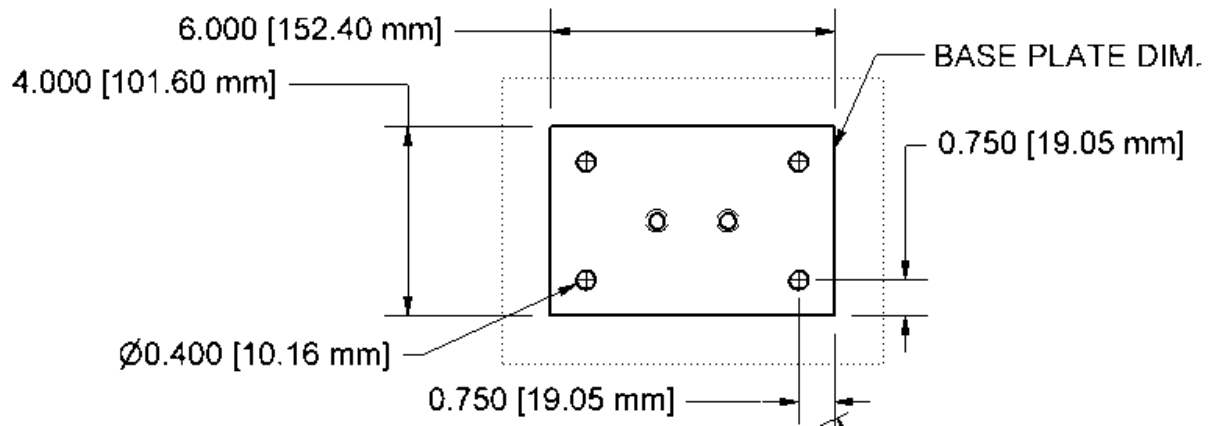
1. **DO NOT OPERATE** this machine without all covers and guards in place.
2. **DISCONNECT** all compressed air sources before servicing. Follow OSHA Standard 1910.147 “CONTROL of HAZARDOUS ENERGY (LOCKOUT/TAGOUT)”
3. **TROUBLESHOOTING** should be done by qualified personnel only.
4. **THE OPERATOR** should always wear the personal protective equipment as outlined by his/her employer, such as eye and ear protection, to avoid injury.
5. **MAINTAIN** the equipment in good operating condition.

GRIPNAIL 20307 STRONG ARM WORK STATION

**Work Envelope**



## Base Plate Hole Template



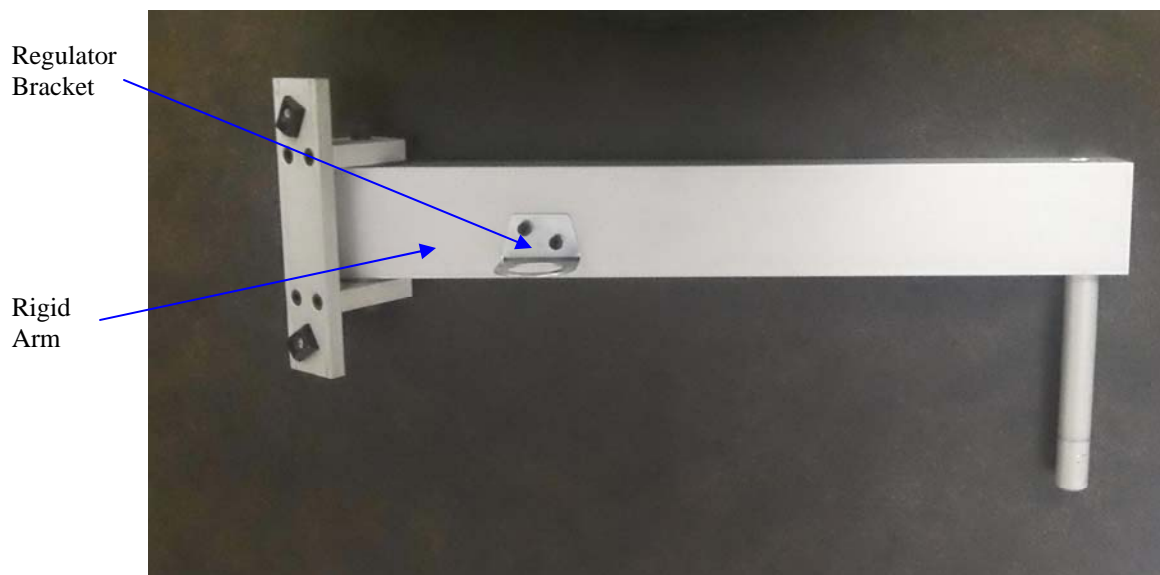
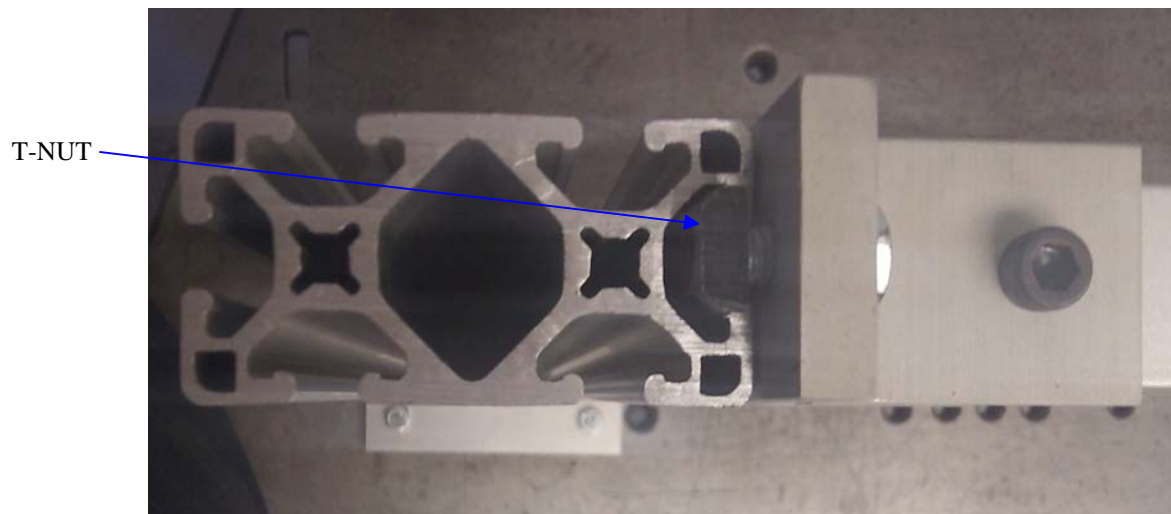
## Installation

Step 1: Using The Base Plate Hole Template above, drill mounting holes to a Rigid Workstation. Then Bolt mounting plate and upright to workstation using mounting holes previously drilled.



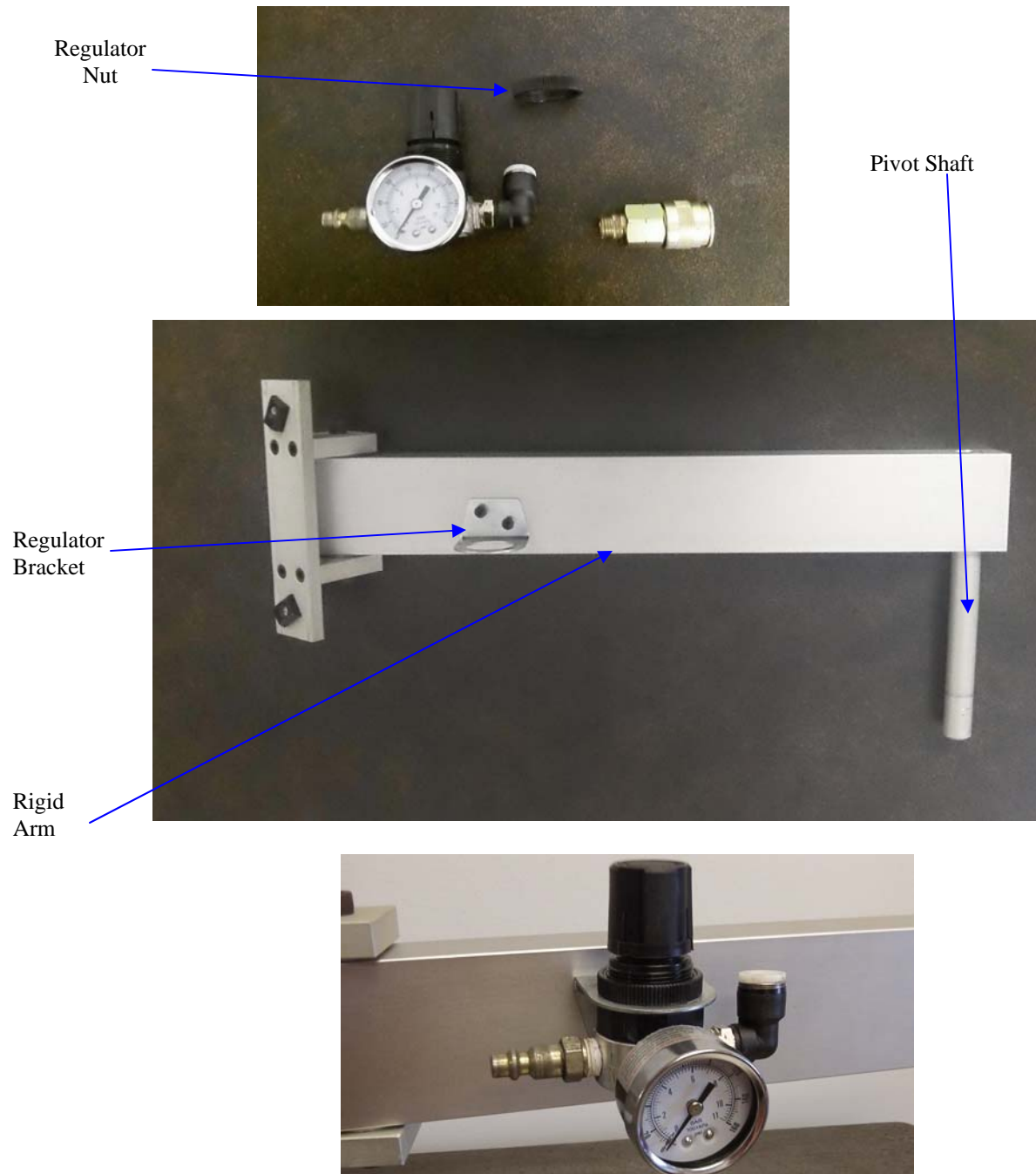
## Installation

**Step 2:** Using the (2) 5/16 Hex Head bolts and T-nuts, Secure the Rigid Arm to Upright. (TIP) Placement of Rigid Arm is to be determined by placing users work piece on work station after assembly is completed; bring Flex Arm down 10-15° below horizontal Then, tighten bolts making sure that your work piece is about a 1/2" below Driver tip located on 211 air tool.



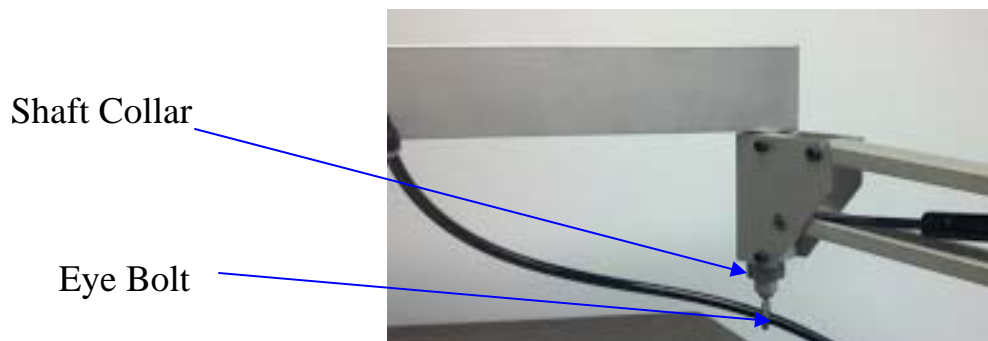
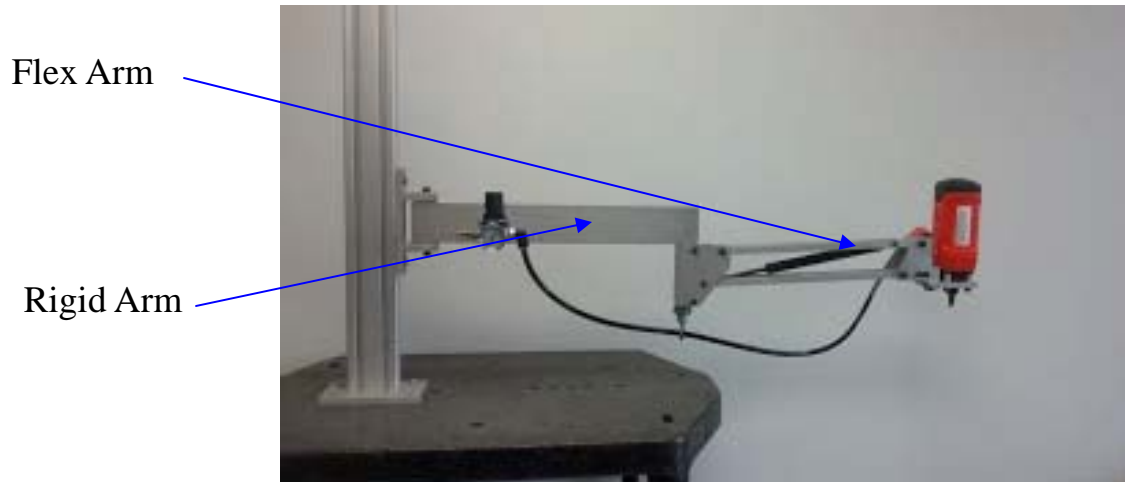
## Installation

**Step 3:** Take the regulator from 211 Air Tool (SOLD SEPERATELY) and remove female quick connect. Replace with 90° Push-in Fitting (provided with the Strong Arm) and secure regulator to bracket attached to Rigid Arm Using Regulator Nut.



## Installation

**Step 4:** Slide flex arm on Pivot Shaft located on rigid Arm, secure with shaft collar, and attach eye bolt supplied with kit.





## Installation

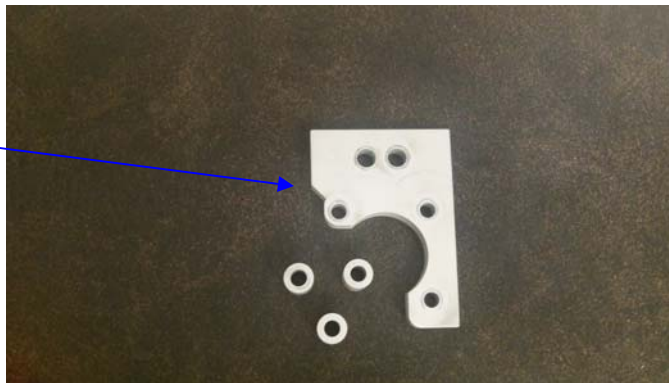
**Step 5:** Take the 211 Air tool and Replace three of the four set screws with the 1/4 - 28 x 2" set screws supplied with Strong Arm.

**Step 6:** Place spacers then adapter plate on set screws, secure with supplied lock nuts. Note: Depending on how you mount Base Plate to workstation determines what set screws are being replaced.

211  
Air Tool



Spacers &  
Adapter  
Plate

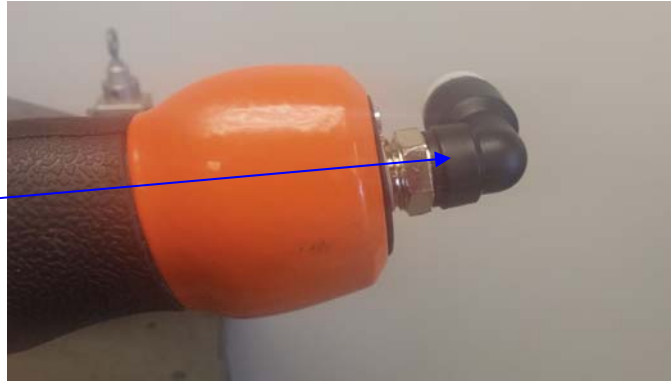


## Installation

**Step 7:** Replace quick connect on air tool with supplied 90° Push-in Fitting.

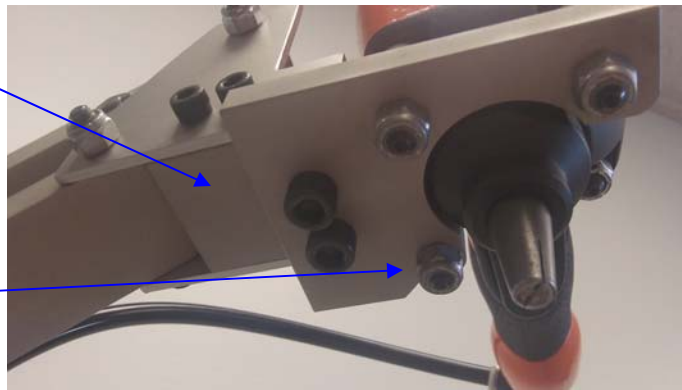
**Step 8:** Secure 211 Air Tool assembly to end effector located on flex arm with 5/16 socket head cap screws.

90°  
Push-in  
Fitting



Flex Arm

Air Tool  
Assembly



## Installation

**Step 9:** Take the air hose supplied with the Strong Arm and route it from regulator to air tool making sure it passes through the eye bolt.



## **OPERATING INSTRUCTIONS**

1. Adjust the Main Regulator for proper impact force to seat the fastener.
2. Place a fastener on the end of the Magnetic Driver.
3. Lower the Air Tool to the work piece and compress the Driver into the Air Tool (approximately 1/2").
4. Holding the Air Tool firmly in place, squeeze the Air Tool trigger to install the fastener.

### **Spare parts**

<b><u>Part Number:</u></b>	<b><u>QTY:</u></b>	<b><u>Part Description:</u></b>
42595	1	Gas Spring
42593	4	Bushings
42594	4	E-Clips

## **SERVICE POLICY**

Proper operation of your machine is a top priority with the Gripnail Corporation. We will assist you to the best of our abilities to see it is kept in peak operating condition.

In many cases, service needs can be made simply by calling Gripnail Customer Service Department. If it becomes necessary for a service technician to visit your plant, we can make the arrangements.

All Gripnail machines are covered under a one year New Machine Warranty (see Warranty next page). Replacement parts covered by the warranty are supplied free of charge, provided the original parts are returned to Gripnail and do not show signs of abuse.

All warranties on Gripnail machines are good only if Gripnail fasteners are used. If it is determined that fasteners other than those manufactured by Gripnail have been used, the warranty is voided. At Gripnail, we believe in servicing what we sell for the lifetime of the equipment. If you are having difficulty with your machine or if you have any questions regarding service and warranty policy, please call, fax, or write:

**Gripnail Customer Service Department**  
**Gripnail Corporation**  
97 Dexter Road  
East Providence, Rhode Island 02914  
Phone: (800) 474-7624  
(401) 431-1791  
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Email: [gripnail@gripnail.com](mailto:gripnail@gripnail.com)  
Website: [www.gripnail.com](http://www.gripnail.com)

# WARRANTY

All Gripnail Fastening Equipment is thoroughly inspected and tested before leaving the factory. Gripnail Corporation warrants its equipment to be free from defects in workmanship and materials under normal and proper use for a period of one (1) year from date of sale to original end purchaser.

The warranty does not apply when repairs or attempted repairs have been made by persons other than Gripnail Corporation's authorized service personnel, or where it is determined by our service personnel that the equipment has been subjected to misuse, negligence or accident. If it is determined that any fasteners other than those manufactured by Gripnail have been used in this machine or tool, the warranty is terminated.

This warranty is not effective unless equipment is properly registered with the factory through the use of warranty information card prior to use. Gripnail Corporation shall not be liable for contingent damages or delays caused by defective materials or any other means beyond our control.

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