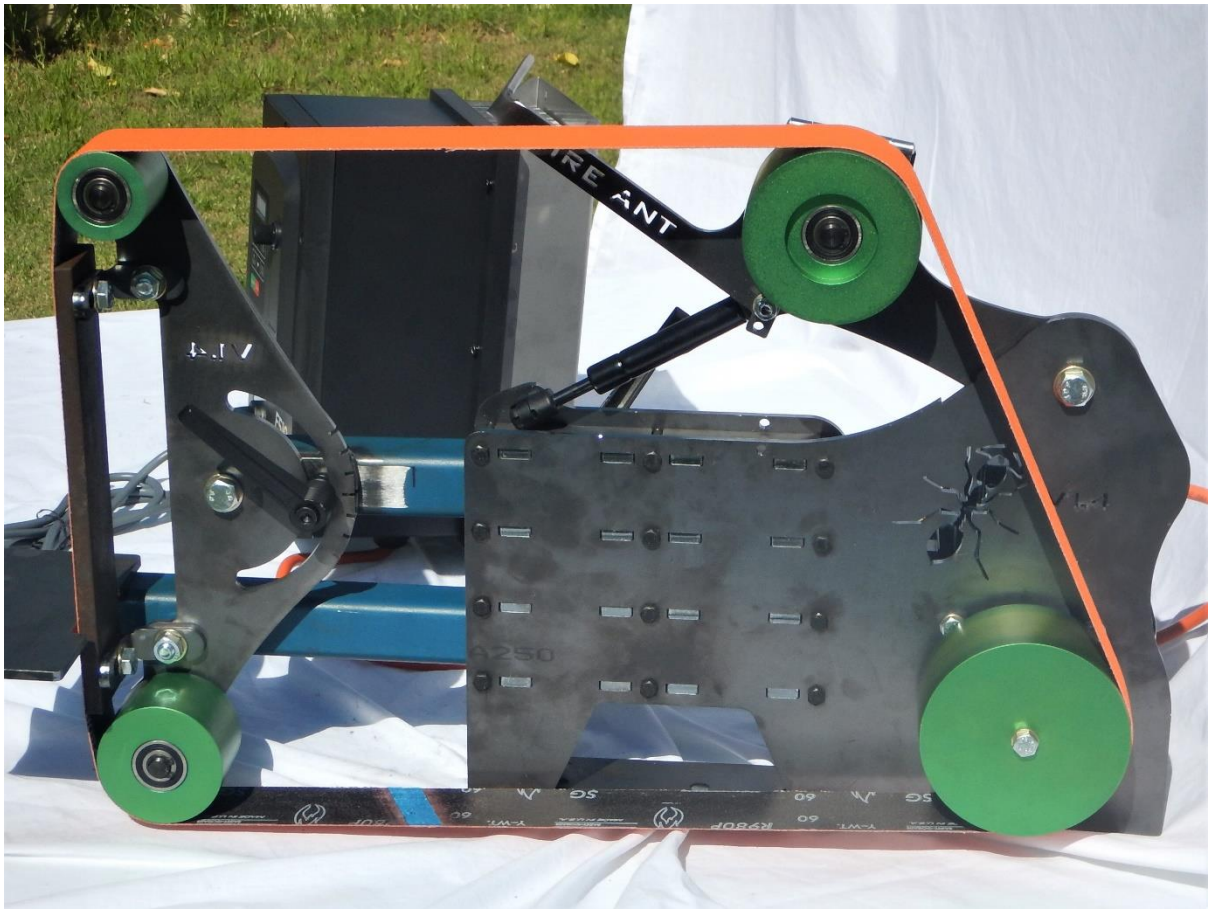


# SET UP INSTRUCTIONS

## FIRE ANT GRINDER V1.4



FIRE PANTS FABRICATION

WEBSITE: [WWW.FIREPANTSFAB.COM.AU](http://WWW.FIREPANTSFAB.COM.AU)

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## 1. INTRODUCTION

THE FIRE ANT GRINDER HAS BEEN BORN OUT OF MY OWN NEEDS TO HAVE A LOW COST, FUNCTIONAL, VERSATILE, HIGH PERFORMING GRINDER. THE MODULAR DESIGN ALLOWS FOR QUICK AND EASY ASSEMBLY.

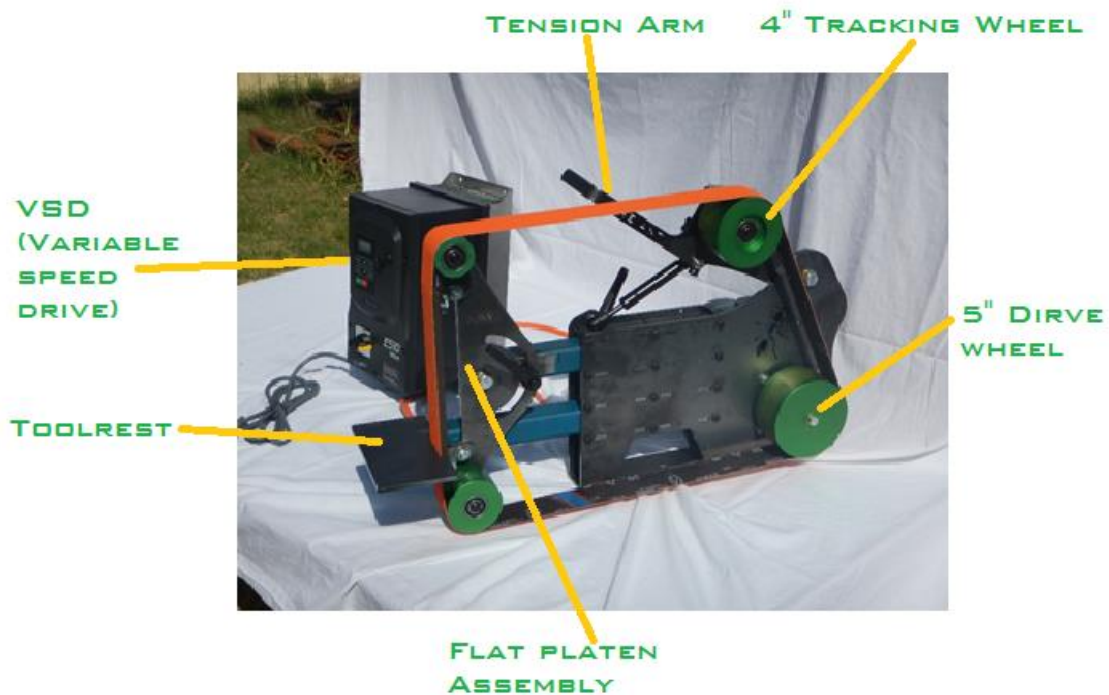
FEATURES INCLUDE:

- 2" x 72" (50 x 1830MM) BELT CAPACITY, FOR THE BIGGEST RANGE OF CONSUMABLES.
- SOLID 6MM STEEL CONSTRUCTION, LASER CUT FOR ACCURACY.
- 3 X TOOL REST AND PLATEN SLOTS FOR VERSATILITY.
- STANDARD PLATEN CAN BE ADJUSTED TO A WIDE RANGE OF ANGLES, WITH MARKINGS EVERY 10" FOR EASY SET UP.
- QUICKLY ADJUST FOR FLAT PLATEN, TO SLACK BELT, TO CONTACT WHEEL.
- CERAMIC PLATEN BACKREST OPTION AVAILABLE.
- 6061 ALUMINIUM PLATEN, TRACKING, AND DRIVE WHEELS FOR LONG LIFE.
- 5" DRIVE WHEEL (TO SUIT 2HP MOTOR) FOR OPTIMAL BELT SPEED / TORQUE.
- CONSTANT DEVELOPMENT OF NEW TOOLING AND ATTACHMENTS, FOR BOTH KNIFE MAKING AND GENERAL FABRICATION APPLICATIONS.
- AUSTRALIAN DESIGNED AND BUILT.
- EXTENDED LENGTH PLATEN BACKREST FOR GREATER CONTROL.

**NOTE: PLEASE DO NOT OPERATE THE FIRE ANT GRINDER UNTIL YOU HAVE READ THESE INSTRUCTIONS AND ARE FAMILIAR WITH ITS CONTROLS. THE FIRE ANT GRINDER IS INTENDED FOR USE ONLY BY TRAINED PERSONNEL.**

## 2. SPECIFICATIONS

TYPE OF GRINDER	BELT GRINDER
DIMENSION OF FRAME	420 x 350 x 370 (LxWxH)
WEIGHT	APPROX. 37KG
ELECTRICAL SPECIFICATIONS	240V 10A
BELT SIZE	2 x 72"
ENVIRONMENT	FOR INDOOR USE ONLY






### 3. UNPACKING

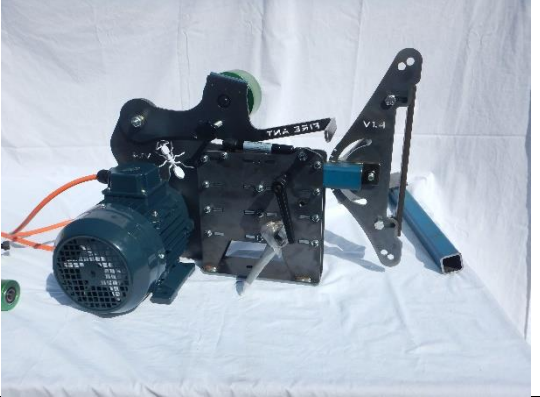
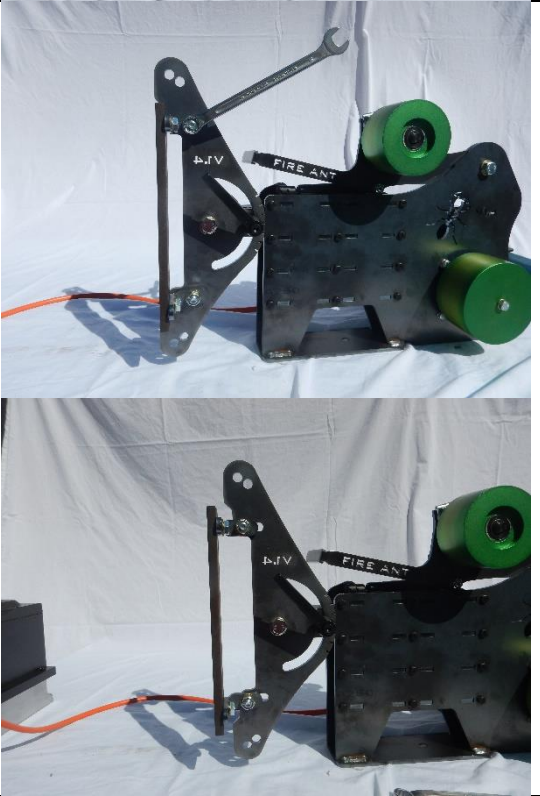

CAREFULLY INSPECT THE EXTERIOR OF THE PACKING BOX. ANY VISIBLE DAMAGE SHOULD IMMEDIATELY BE REPORTED TO THE FIRE PANTS FABRICATION. REMOVE ALL PACKING DOCUMENTS FROM THE INTERIOR OF THE BOX AND FILE IN YOUR RECORDS. REMOVE THE SHIPPING BOX, THE FOAM PACKAGING MATERIAL, AND THE FIRE ANT GRINDER. OPEN THE TOP FLAPS OF THE PACKING BOX TO REMOVE THE FIRE ANT GRINDER FROM THE BASE OF THE BOX. GRASP THE FIRE ANT GRINDER ON BOTH SIDES, USING PROPER LIFTING TECHNIQUES, AND PLACE IT ON A STABLE BENCH TOP. VISUALLY CHECK THE FIRE ANT GRINDER TO ENSURE THAT NO DAMAGE OCCURRED DURING SHIPPING.

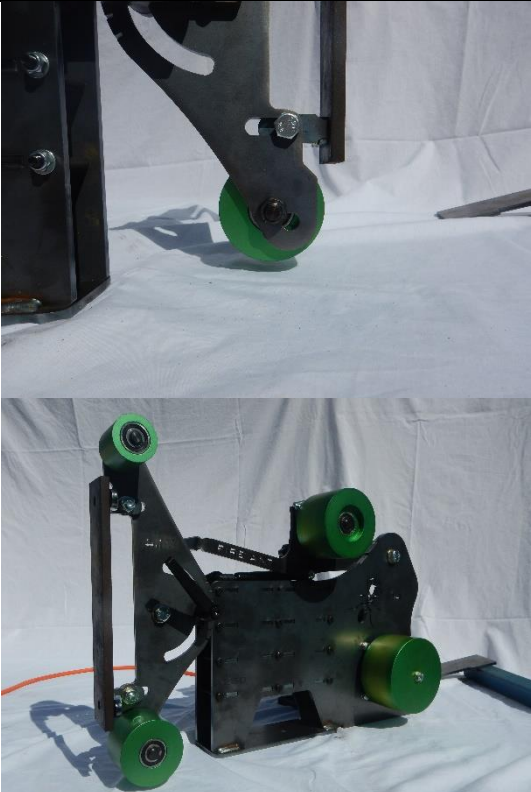


**IMPORTANT: THE BOLTS AND WASHERS SUPPLIED WITH THE FIRE ANT GRINDER MUST BE USED.**

#### 4. SETTING UP




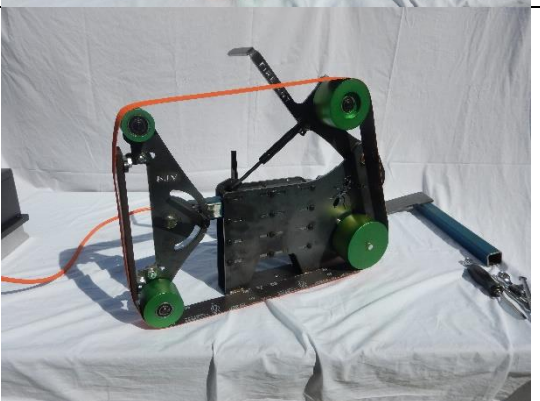
<p>STEP 1</p>	<p>UNPACK EVERYTHING AND FIND BAG OF BOLTS</p>	 <p>The top photograph shows various mechanical parts including a motor, a grinder frame, and a bag of bolts laid out on a white surface. The bottom photograph shows a handwritten note on lined paper with an upward arrow pointing to four bolts and the text '4 x M8 x 35mm', and a downward arrow pointing to one longer bolt with the text '1 x M8 x 45mm'.</p>
<p>STEP 2</p>	<p>ALIGN MOTOR FACE WITH MOUNTING HOLES, INSTALL 4 x 35MM BOLTS AND WASHERS.</p>	 <p>The photograph shows a green motor being aligned with a metal frame. Four bolts are visible, securing the motor to the frame.</p>
<p>STEP 3</p>	<p>USE A 13MM SPANNER TO TIGHTEN TOGETHER 4 x 13MM BOLTS. TIGHTEN EVENLY IN A CROSS PATTERN AND ENSURE FACE OF MOTOR IS PULLED UP TIGHT TO THE GRINDER FRAME.</p>	 <p>The photograph shows a close-up of a metal frame with a yellow handle being used to tighten a bolt. A wrench is also visible on the frame.</p>

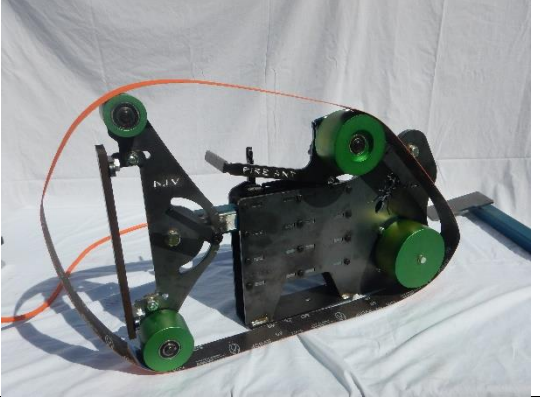

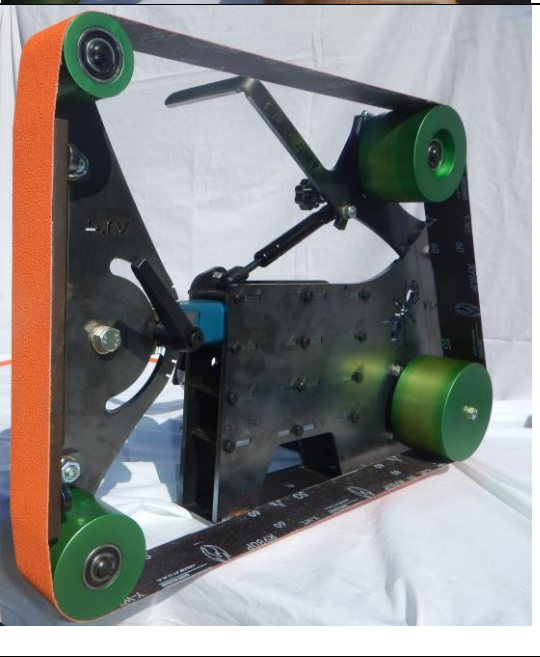

<p><b>STEP 4</b></p>	<p>INSTALL DRIVE WHEEL OVER MOTOR SHAFT UNTIL THE END OF THE SHAFT CONTACTS THE STOP ON THE INSIDE OF THE WHEEL.</p>	
<p><b>STEP 5</b></p>	<p>USE THE M8X45 BOLT AND WASHER WITH YOUR 13MM SPANNER TO SECURE DRIVE WHEEL TO THE MOTOR SHAFT.</p>	
<p><b>STEP 6</b></p>	<p>INSTALL THE 4" TRACKING WHEEL TO THE TRACKING ADJUSTER MECHANISM. INSERT THE THREADED END THROUGH THE HOLE OF THE TRACKING ADJUSTER USE 18MM SPANNER TO SECURE NUT ON THE OTHER SIDE OF TRACKING ADJUSTER.</p>	


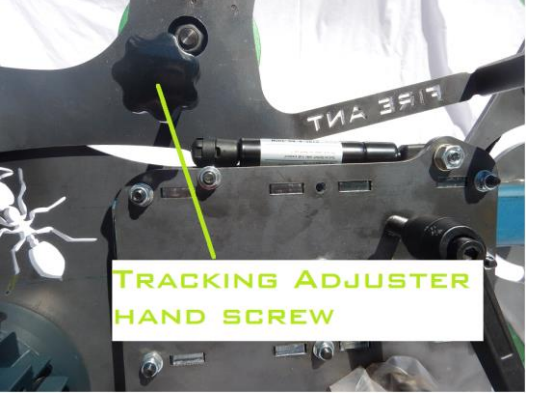
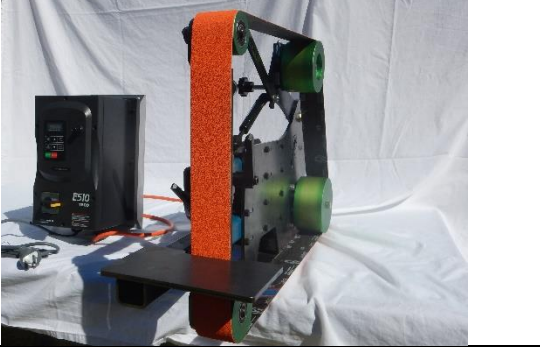
<p>STEP 7</p>	<p>GRAB YOUR ADJUSTABLE PLATEN AND INSTALL IT IN THE TOP TOOL ARM RECEIVER. SECURE USING ONE OF THE SUPPLIED LOCKING HANDLES.</p>	
<p>STEP 8</p>	<p>ADJUST THE PLATEN BACKREST ALL THE WAY FORWARD BY USING 2 X 16MM SPANNERS TO LOOSEN ADJUSTING BOLTS. NOTE: LEAVE THE FINAL ADJUSTMENT UNTIL BELT IS IN PLACE.</p>	
<p>STEP 9</p>	<p>INSTALL 2" PLATEN WHEEL IN THE TOP HOLE AT THE TOP OF THE PLATEN. USE SUPPLIED NUT AND 18MM SPANNER TO SECURE IN PLACE. INSTALL 3" PLATEN WHEEL IN THE UPPER HOLE AT THE BOTTOM OF THE PLATEN. USE SUPPLIED NUT AND 18MM SPANNER TO SECURE IN PLACE.  NOTE: YOU CAN CHANGE THE POSITION OF THE PLATEN WHEELS BASED ON YOUR PREFERENCE / SIZE OF SUPPLIED WHEEL.</p>	

		
<p><b>STEP 10</b></p>	<p>USE 2 X 10MM SPANNERS TO REMOVE TENSIONER HOLD DOWN BOLT LOCATED BELOW THE TRACKING ADJUSTER HANDLE.</p>	
<p><b>STEP 11</b></p>	<p>TAKE THE BOLT JUST REMOVED FROM TENSIONER HOLD DOWN AND PLACE INTO MIDDLE OF FRAME HOLE. TIGHTEN BOLT WITH 2 X 10MM SPANNERS.</p>	



<p>STEP 12</p>	<p>SECURE EARTH LEAD FROM MOTOR TO GRINDER FRAME. UNDO BOLT CLOSEST TO MOTOR USING 2 X 10MM SPANNERS AND PLACE EARTH LEAD UNDER THE WASHER AND NUT AND SECURELY TIGHTEN.</p>	
<p>STEP 13</p>	<p>CHECK THE TENSION ARM MOVES FREELY BY LIFTING THE HANDLE ON THE TENSION ARM.</p>	
<p>STEP 14</p>	<p>GRAB A 2 X 72 INCH BELT AND PLACE AROUND ALL WHEELS WITH THE TENSION ARM IN THE UP POSITION.</p>	
<p>STEP 15</p>	<p>LOOSEN THE PLATEN TOOL ARM LOCKING LEVER. PULL THE PLATEN TOWARDS YOURSELF TO REMOVE THE SLACK FROM THE BELT.</p>	

<p>STEP 16</p>	<p>PULL THE TENSIONER ARM DOWN UNTIL IT LOCKS INTO POSITION</p>	
<p>STEP 17</p>	<p>BRING THE PLATEN TOWARDS YOU APPROXIMATELY 30MM AND SECURE IT IN PLACE.</p>	
<p>STEP 18</p>	<p>LIFT TENSION ARM TO TIGHTEN BELT.</p> <p>THIS IS THE RECOMMENDED WAY TO TENSION THE BELT. FROM THIS POINT YOU CAN LOWER THE TENSION ARM, AND MAKE ADJUSTMENTS WITH THE PLATEN FORWARD AND BACK TO ADJUST TENSION.</p>	
<p>STEP 19</p>	<p>THE BOTTOM OF THE TENSION ARM WILL INTERSECT WITH A NOTCH ON THE FRAME. THIS NOTCH SHOWS THE WORKING RANGE OF THE TENSION ARM. IF THE TENSION ARM IS LOWER YOU WILL HAVE LESS TENSION ON YOUR BELT; AND IF THE TENSION ARM IS HIGHER YOU WILL HAVE MORE TENSION ON YOUR BELT.</p>	

<p>STEP 20</p>	<p>USING 2 X 16MM SPANNERS TO ADJUST THE POSITION OF PLATEN BACKREST TO YOUR PERSONAL PREFERENCE.</p> <p>NOTE: YOU CAN ADJUST THE POSITION OF THE BACKREST FORWARD, BACK, LEFT AND RIGHT TO YOUR DESIRED POSITION.</p>	
<p>STEP 21</p>	<p>INSTALL TOOL REST (IF SUPPLIED) TO THE LOWER TOOL ARM RECEIVER, SECURE USING SUPPLIED LOCKING HANDLES.</p>	
<p>STEP 22</p>	<p>DOUBLE CHECK ALL BOLTS, ATTACHMENTS AND LEVERS ARE FIRMLY SECURE.</p>	
<p>STEP 23</p>	<p>SLOWLY ROTATE THE BELT TOWARDS YOU BY HAND, TO CHECK THE TRACKING WHEEL ALIGNMENT.</p> <p>THE TRACKING IS ADJUSTED BY ROTATING THE HAND SCREW ON THE LEFT SIDE OF THE GRINDER. THIS CHANGES THE ANGLE OF THE TRACKING WHEEL AND THUS THE POSITION OF THE BELT ON THE PLATEN.</p> <p>*ON FIRST USE THE HAND SCREW MAY BE VERY TIGHT. THIS SHOULD LOOSEN SUBSTANTIALLY AFTER THE FIRST ¼ TURN. A SMALL DROP OF LOCTITE HAS BEEN USED TO PREVENT VIBRATIONS AFFECTING THE TRACKING.</p>	
<p>STEP 24</p>	<p>SECURELY MOUNT YOUR VARIABLE SPEED DRIVE (VSD) ACCORDING TO MOUNTING INSTRUCTIONS INCLUDED. THE SUPPLIED DRIVES ARE IP66 RATED AND ARE COMPLETELY DUST PROOF, AND CAN TAKE HIGH PRESSURE WATER SPRAY. THEY SHOULD NOT BE PERMANENTLY MOUNTED IN DIRECT SUNLIGHT.</p>	
<p>STEP 25</p>	<p>SECURELY MOUNT YOUR FIRE ANT GRINDER TO YOUR BENCH OR POST USING THE MOUNTING HOLES IN THE BASE OF THE FRAME, AND THE MOTOR MOUNT HOLES WHERE NECESSARY.</p>	



**IF YOUR MOTOR AND DRIVE HAS COME PRE WIRED:**

- PLUG THE 3 PIN ELECTRICAL CORD INTO A 240V POWER SOURCE.
- TURN ISOLATING SWITCH ON.
- ENSURE THE FORWARD LIGHT IS FLASHING.
- USE THE POTENTIOMETER NEXT TO THE KEY PAD TO ADJUST MOTOR TO ITS LOWEST SPEED, IT SHOULD DISPLAY APPROX. 700 FEET PER MINUTE.
- PUSH THE RUN BUTTON TO START THE MOTOR.
- CHECK TRACKING OF BELT ON THE FIRE ANT GRINDER.
- SEE INSTRUCTION MANUAL FOR USE ON THE VARIABLE SPEED DRIVE.

**IF YOUR MOTOR AND DRIVE HAS NOT COME PRE WIRED:**

CONTACT A QUALIFIED ELECTRICIAN TO WIRE UP THE MOTOR AND VARIABLE SPEED DRIVE.

- PLUG THE 3 PIN ELECTRICAL CORD INTO A 240V POWER SOURCE.
- TURN ISOLATING SWITCH ON.
- ENSURE THE FORWARD LIGHT IS FLASHING.
- USE THE POTENTIOMETER NEXT TO THE KEY PAD TO ADJUST MOTOR TO ITS LOWEST SPEED, IT SHOULD DISPLAY APPROX. 700 FEET PER MINUTE.
- PUSH THE RUN BUTTON TO START THE MOTOR.
- CHECK TRACKING OF BELT ON THE FIRE ANT GRINDER.
- SEE INSTRUCTION MANUAL FOR USE ON THE VARIABLE SPEED DRIVE.

**NOTE: ALL VARIABLE SPEED DRIVES WIRED OR NOT; HAVE BEEN PROGRAMMED TO SUIT THE FIRE ANT GRINDER.**

YOUR FIRE ANT IS NOW READY FOR USE.

CONGRATULATIONS ON YOUR PURCHASE, AND THANK YOU FOR SUPPORTING A LOCAL BUSINESS. PLEASE CHECK IN ON [WWW.FIREPANTSFAB.COM.AU](http://WWW.FIREPANTSFAB.COM.AU) REGULARLY TO KEEP UP TO DATE WITH ANY IMPROVEMENTS, AND NEW TOOLING ON OFFER.