

# P/N 090519 –LED LIGHT 610 SHEARMASTER RETROFIT KIT INSTRUCTIONS



1



4



9



2



5



10



3



6



8



11



# PARTS LIST

ITEM NUMBER	QUANTITY	PART NUMBER	DESCRIPTION
1	21 IN.	660461	18/2 SVO CORD
2	1	090508	LED LIGHT TRANSFORMER
3	1	090507	PIGTAIL CONNECTOR
4	4	145005	SMALL BLUE WIRE NUT
5	1	090506	MALE-MALE CONNECTOR
6	1	158003	#3104 SNAP BUSHING
7*	9-3/4 IN.*	011715	HORIZONTAL CONDUIT CHANNEL
8*	13-3/4 IN.*	011715	VERTICAL CONDUIT CHANNEL
9	1	090502	3 METER EXTENSION
10	6	660505	BLACK NYLON CABLE TIE
11	1	090545	36 LED BULB STRIP (24 IN.)
*CONDUIT CHANNEL MAY BE SENT AS 1X – 28 IN. PIECE			

## BASIC CONSIDERATIONS

- Please read the instructions **FULLY** before attempting to install the product.
- Make sure to unplug the machine from its electrical source and perform any necessary lockout/tagout procedures.
- If the old worklight is installed, it will be necessary to remove the cord from the base. The light can stay on the machine, but it cannot be wired into the electrical box.
- **NOTE:** The 3M VHB Tape is a pressure activated adhesive. If **LIGHTLY APPLIED** to a surface, it may be possible to pull off and reapply. If **FIRMLY ATTACHED**, it will be near impossible to move.
- The strips are regarded as a one – time application product. Therefore, care must be undertaken when applying the strips.
- In the event of a strip that has fallen off or been pulled off, it may be possible to reapply either the whole strip or a portion with the application of cyanoacrylate adhesives (i.e. Super Glue).
- It is **NOT** a guarantee that a cyanoacrylate product will work, but depending on surface preparation and adhesion on the strip, there is a chance that it may.

# SURFACE PREPARATION

- Scotchman Industries' machines ship with an oil – based rust preventative coating on exposed, unpainted surfaces. Due to application, certain areas where the LED strips will be installed may be coated with protectant.
- To prep the surface for the LED strips, it is recommended to use a 50:50 mixture of isopropyl alcohol (IPA) and water to clean the surface.
- For areas with heavy oil, grease, oxidation, or dust, a degreaser and/or abrasion may be necessary before the alcohol mixture to prep the surface.
- Click this [link](#) for an in – depth article about surface preparation for 3M™ VHB™ Tape Applications.
- You can also use this QR Code:



- Back to Shear ([Page 29](#))

208 VOLTS



# Scotchman®

**SHUT DISCONNECT OFF AND OPEN ELECTRICAL BOX.**

**WARNING** TO PREVENT SERIOUS BODILY INJURY  
DO NOT REMOVE THIS SIGN FROM THIS MACHINE  
SAFETY GLASSES REQUIRED WHEN OPERATING OR SERVICING THIS MACHINE


SCOTCHMAN INDUSTRIAL, INC.  
PHILIP, SOUTH DAKOTA, U.S.A.  
PH. 605.838.5544



208 VOLTS



**REMOVE 9X – M6 WHIZ-LOCK BOLTS FROM FRONT TOP SHROUD AND SET ASIDE.**

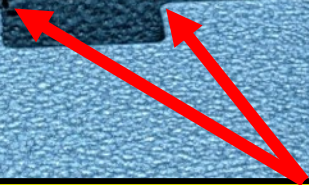


**WARNING** TO PREVENT SERIOUS BODILY INJURY  
DO NOT REMOVE THIS SIGN FROM THIS MACHINE

SCOTCHMAN INDUSTRIAL, INC.  
PHILIP, SOUTH DAKOTA, U.S.A.  
PH. 605-238-5500

**WARNING**  
HIGH PRESSURE OIL LEAKS  
TO PREVENT BURNING INJURY,  
DO NOT OPERATE THIS  
MACHINE IF OIL IS HOT TO  
THE TOUCH

GREASE POINT  
019105



BEFORE REMOVING THE FRONT SHROUD, MARK THE EDGES OF THE CUTOUT ON THE FRAME.





REMOVE 4X - M10 WHIZ-LOCK BOLTS FROM FRONT SHROUD AND SET ASIDE.

Presto

MODEL: 117-11120  
SERIAL: 10021002  
SCOTCHMAN INDUSTRIES, INC.  
PHILIP, SOUTH DAKOTA, U.S.A.  
PH: 605-839-2342  
MADE IN U.S.A.

HP	12	VOLT	220
HZ	50	FLA	1
PH		PSI	2000
BLADE LENGTH	10 1/2"		

REMOVE 4X – M6 WHIZ-LOCK BOLTS FROM SIDE SHROUD AND SET ASIDE. (SEE NEXT PAGE FOR BACKSIDE)





2X – M6 WHIZ-LOCK BOLTS

LUBRICATE  
BEFORE  
OPERATING

GREASE POINT

GREASE

013-179

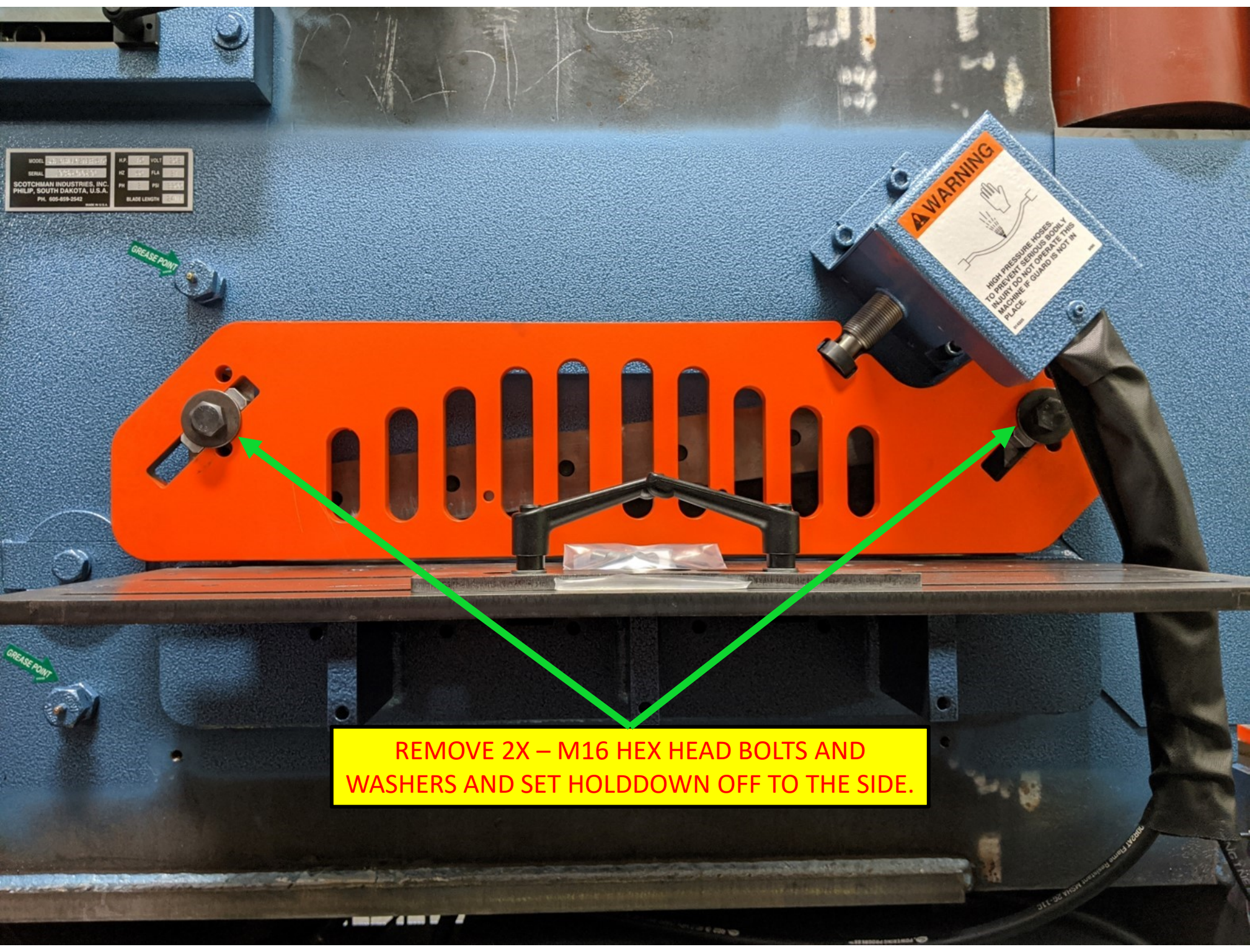
MODEL: 1110-1-1110-1  
SERIAL: 1110-1-1110-1  
SCOTCHMAN INDUSTRIES, INC.  
PHILIP, SOUTH DAKOTA, U.S.A.  
PH: 605-639-2542  
BLADE LENGTH: 1110-1-1110-1

**WARNING**  
HIGH PRESSURE HOSES  
TO PREVENT SERIOUS BODILY  
INJURY DO NOT OPERATE THIS  
MACHINE IF GUARD IS NOT IN  
PLACE.

GREASE POINT

GREASE POINT

REMOVE 2X – M16 HEX HEAD BOLTS AND  
WASHERS AND SET HOLDDOWN OFF TO THE SIDE.





REMOVE KNOCKOUT PLUG FROM ELECTRICAL BOX AND INSTALL P/N 158003 - #3104 SNAP BUSHING.

F-X4  
110  
120  
125  
130

LE  
H5  
XF  
B250-0604-1

1CR

Terminal block with 17 positions labeled X2, 1, 2, 3, 4, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17.

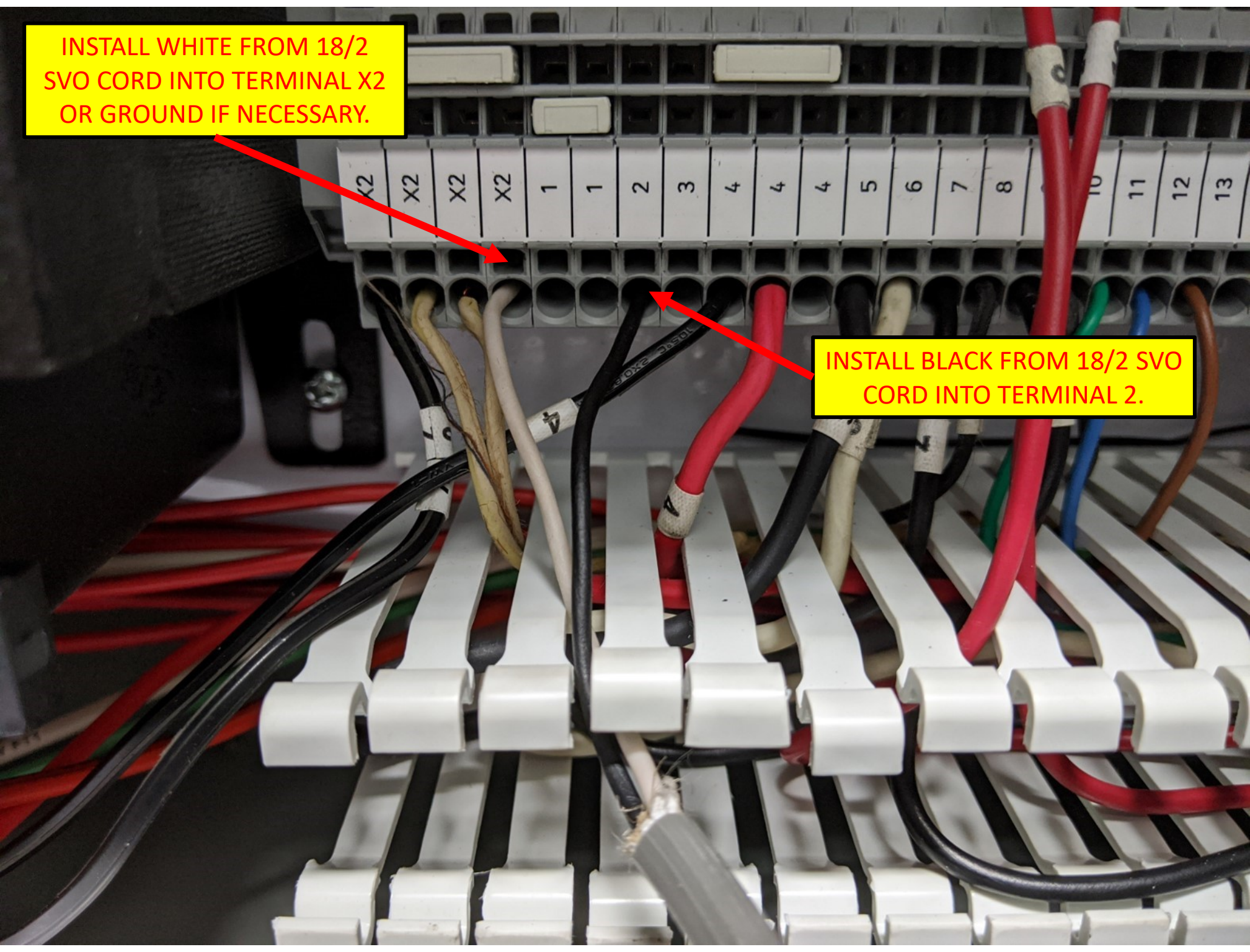
FAT-N  
DIL ER-22  
XTRM10A22  
45B



**REMOVE COVER FROM FINGERS.**

INSTALL WHITE FROM 18/2  
SVO CORD INTO TERMINAL X2  
OR GROUND IF NECESSARY.

INSTALL BLACK FROM 18/2 SVO  
CORD INTO TERMINAL 2.

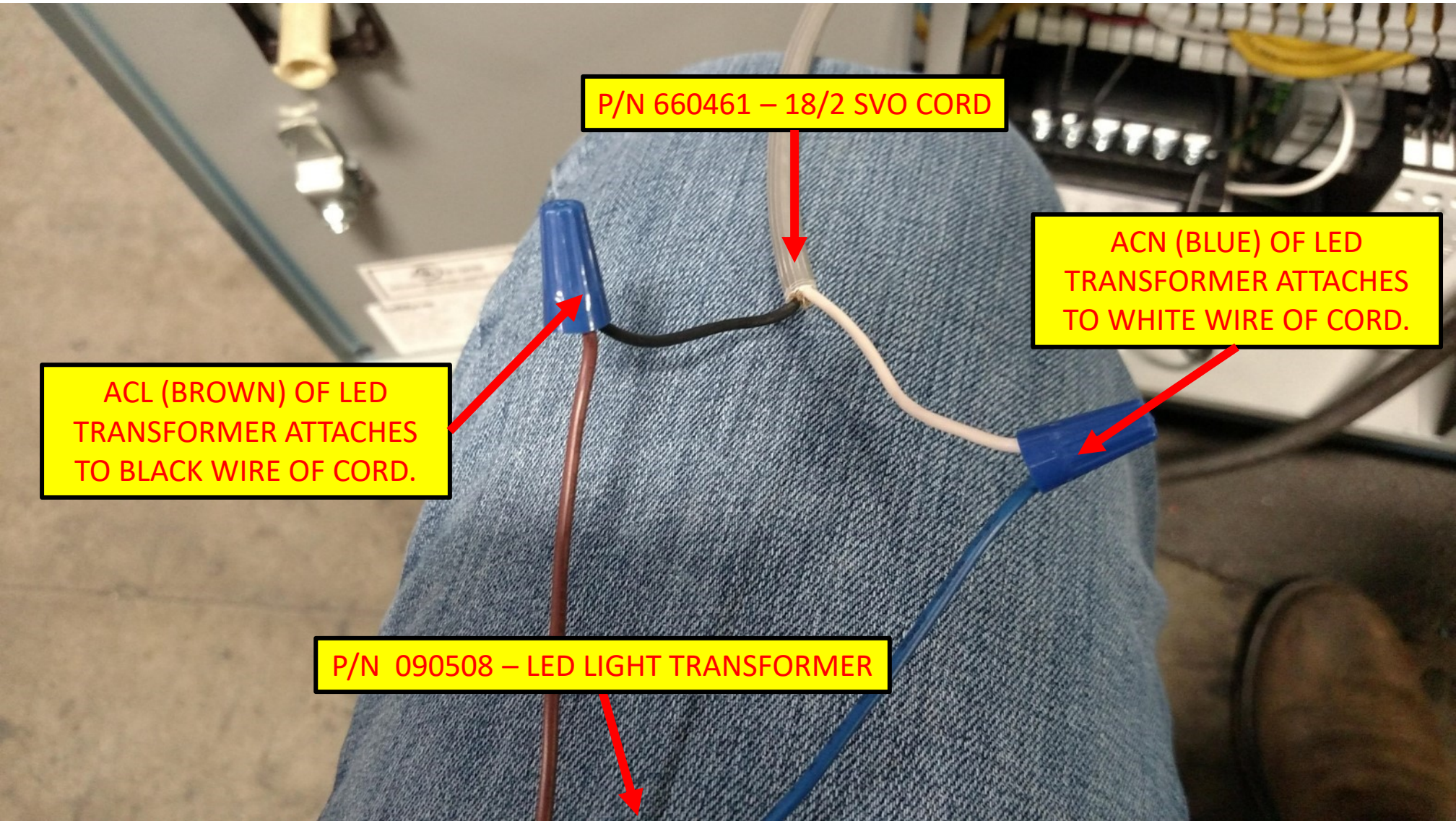


P/N 660461 – 18/2 SVO CORD

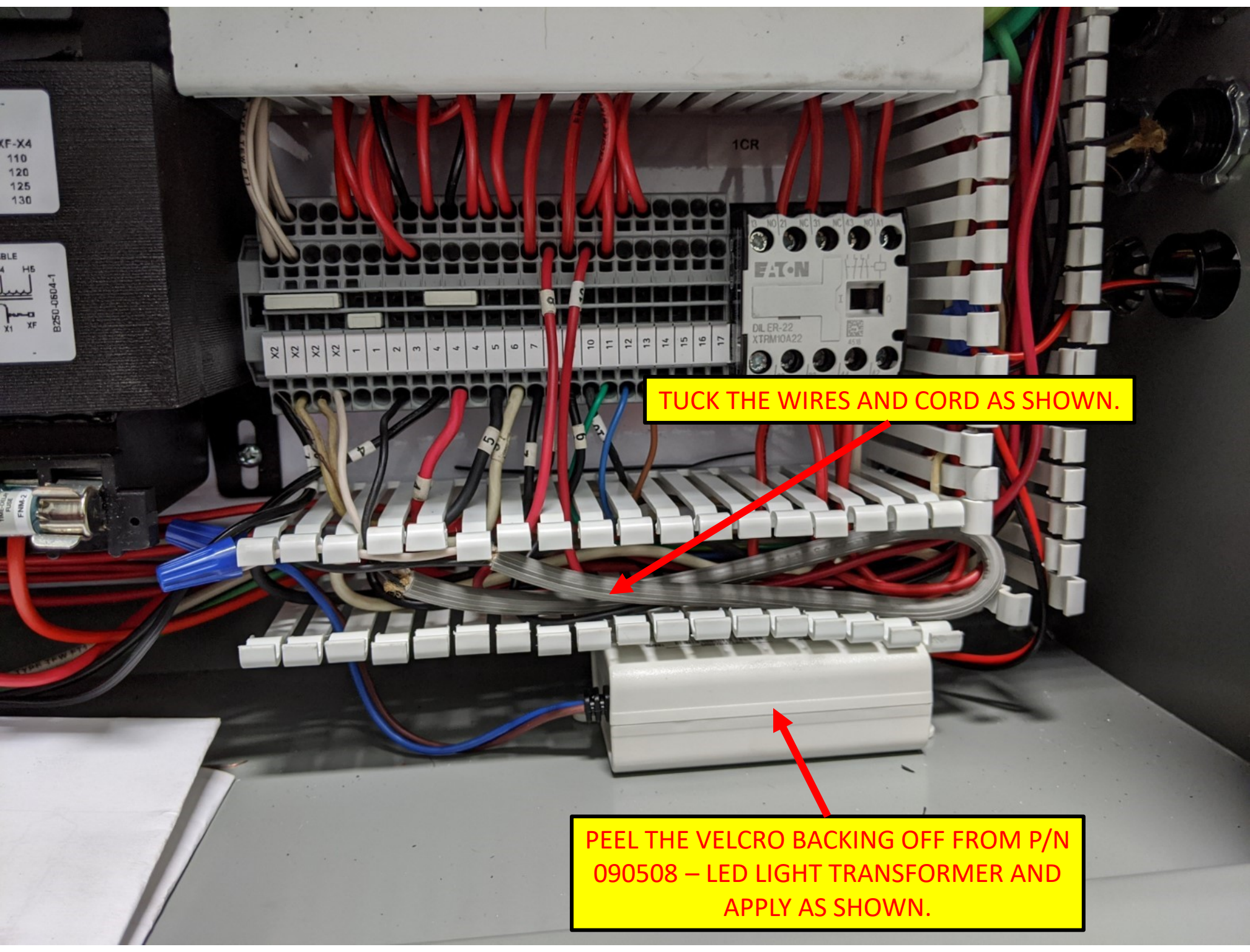
ACN (BLUE) OF LED TRANSFORMER ATTACHES TO WHITE WIRE OF CORD.

ACL (BROWN) OF LED TRANSFORMER ATTACHES TO BLACK WIRE OF CORD.

P/N 090508 – LED LIGHT TRANSFORMER







TUCK THE WIRES AND CORD AS SHOWN.

PEEL THE VELCRO BACKING OFF FROM P/N 090508 – LED LIGHT TRANSFORMER AND APPLY AS SHOWN.

PUT  
(USED)  
-X3 XF-X4  
00 110  
10 120  
115 125  
120 130

S PER TABLE  
H3 H4 H5  
X2 X1 XF  
S2A  
XF  
B250-08CA-1

1CR

Terminal block with terminals labeled X2, X2, X2, X2, 1, 1, 2, 3, 4, 4, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15, 16, 17.

FAT-N  
DIL ER-22  
XTRM10A22



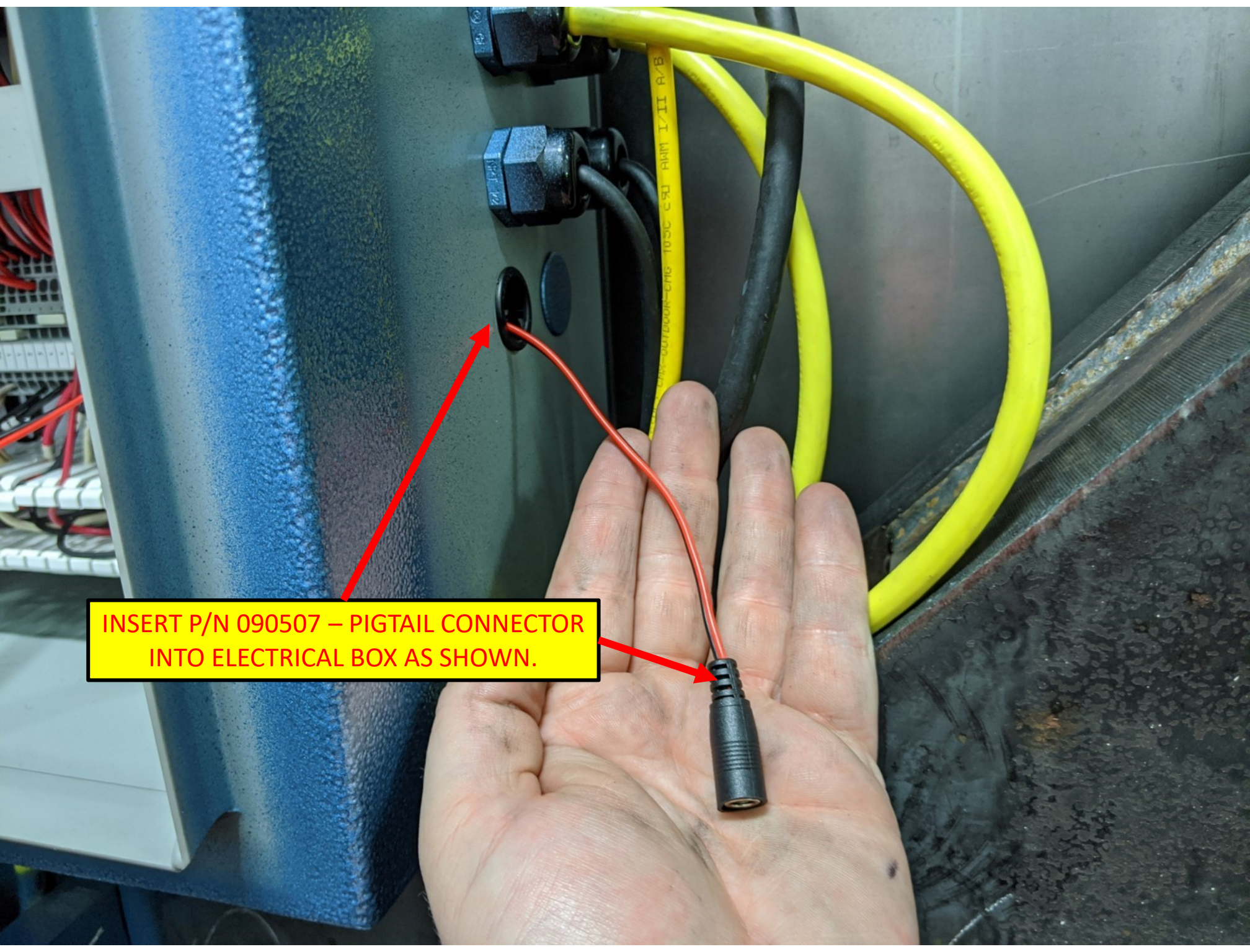
REPLACE COVER ONTO FINGERS.



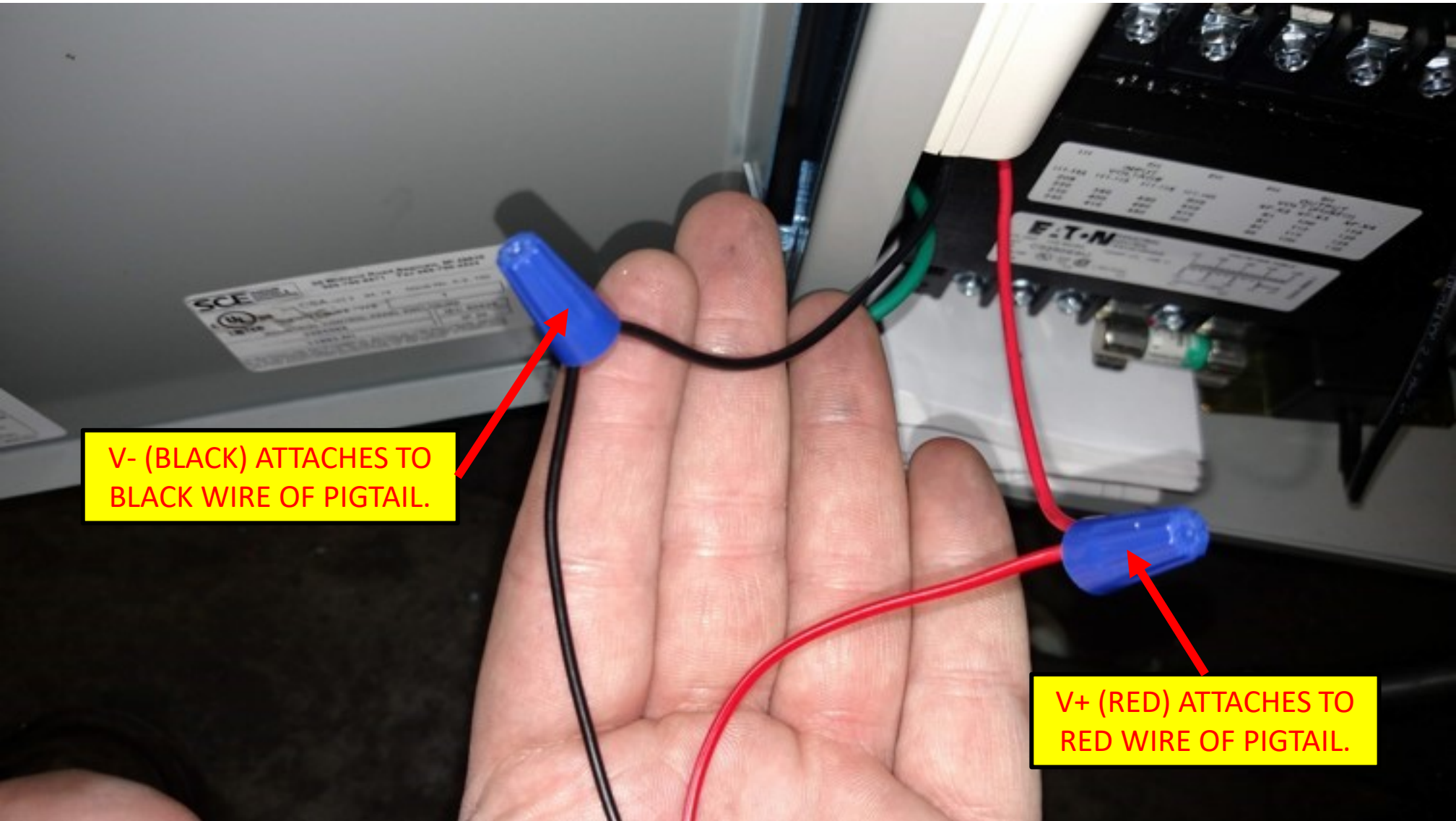
IF THE PIGTAIL LOOKS LIKE THIS,  
THE RUBBER NEEDS TO BE  
TRIMMED DOWN FLUSH WITH  
THE METAL.



THIS IS WHAT IT SHOULD LOOK LIKE.



**INSERT P/N 090507 – PIGTAIL CONNECTOR  
INTO ELECTRICAL BOX AS SHOWN.**



V- (BLACK) ATTACHES TO BLACK WIRE OF PIGTAIL.

V+ (RED) ATTACHES TO RED WIRE OF PIGTAIL.

IF CONDUIT CHANNEL DOES NOT COME PRE-CUT, CUT A 9-3/4" PIECE WITH A 45° MITER AT ONE END. TAKE CARE TO NOTE WHICH SIDE THE CONDUIT OPENS ON BEFORE CUTTING.

≈9-3/4"

OPENING ON THIS SIDE

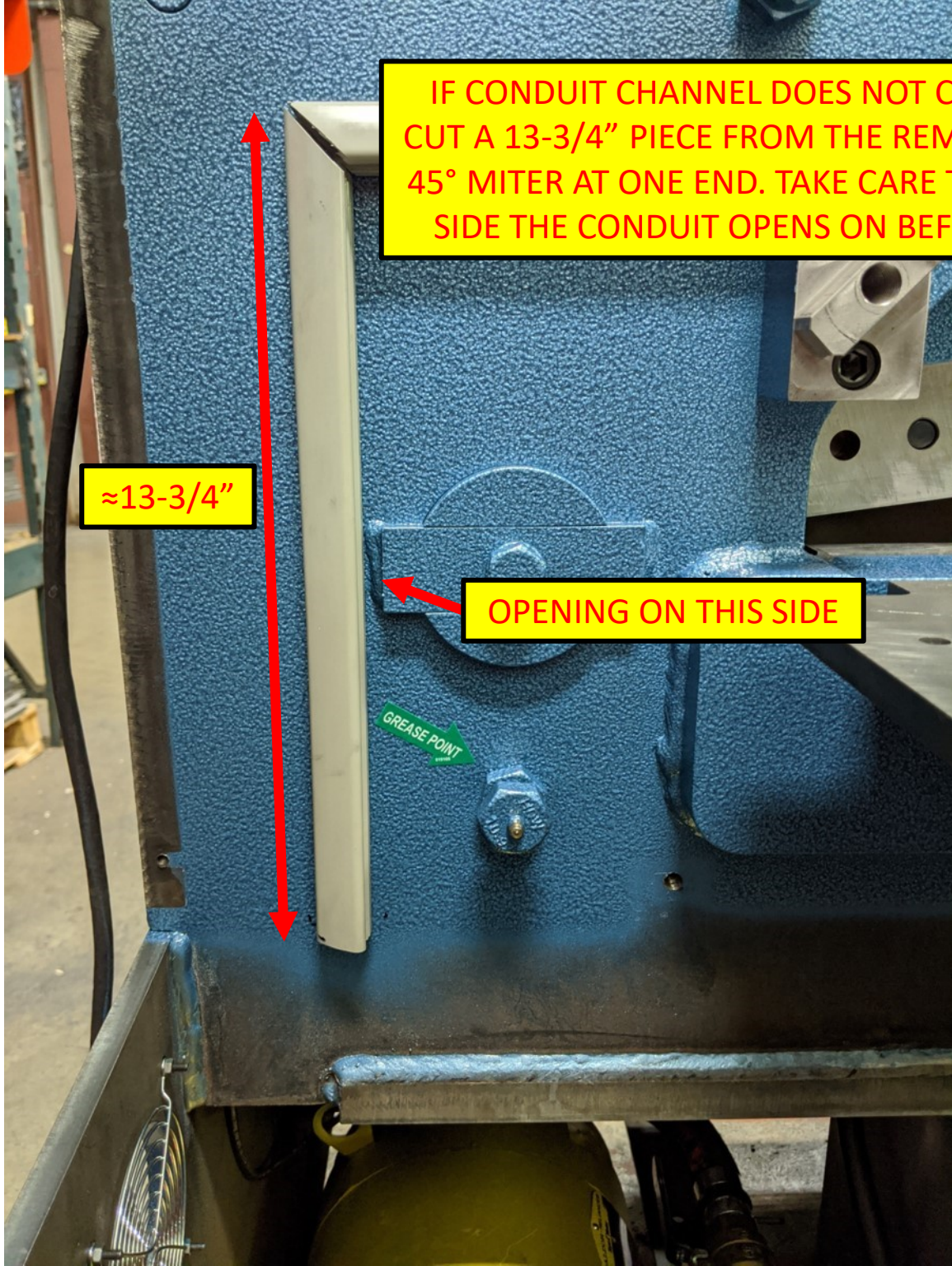


IF CONDUIT CHANNEL DOES NOT COME PRE-CUT, CUT A 13-3/4" PIECE FROM THE REMAINDER WITH A 45° MITER AT ONE END. TAKE CARE TO NOTE WHICH SIDE THE CONDUIT OPENS ON BEFORE CUTTING.

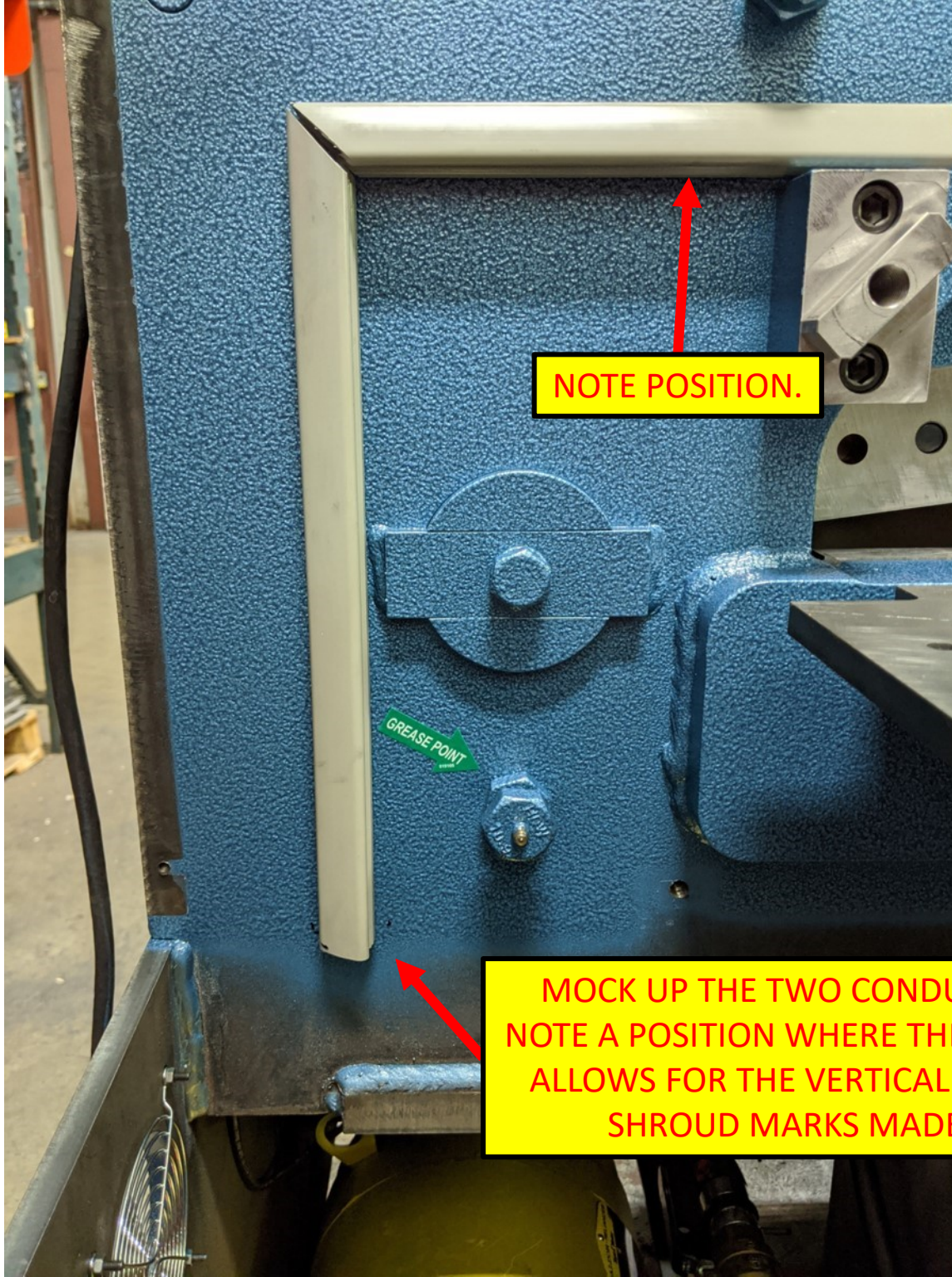
≈13-3/4"

OPENING ON THIS SIDE

GREASE POINT







**NOTE POSITION.**

**MOCK UP THE TWO CONDUIT SECTIONS AND NOTE A POSITION WHERE THE HORIZONTAL PIECE ALLOWS FOR THE VERTICAL TO INTERSECT THE SHROUD MARKS MADE PREVIOUSLY.**

**GREASE POINT**

MODEL  H.P.  VOLT   
SERIAL  HZ  FLA   
SCOTCHMAN INDUSTRIES, INC. PH  PSI   
PHILIP, SOUTH DAKOTA, U.S.A. BLADE LENGTH   
PH. 605-859-2542  
MADE IN U.S.A.

GREASE POINT



APPLY THE 9-3/4" CONDUIT AS SHOWN, WITH OPENING DOWNWARD.



APPLY THE 13-3/4" CONDUIT AS SHOWN,  
WITH OPENING TOWARDS THE SHEAR.

GREASE POINT

MAKE A SMALL MARK IN THE MIDDLE  
OF P/N 090545 – 36 LED BULB STRIP  
(24 IN.) WITH A SHARPIE.

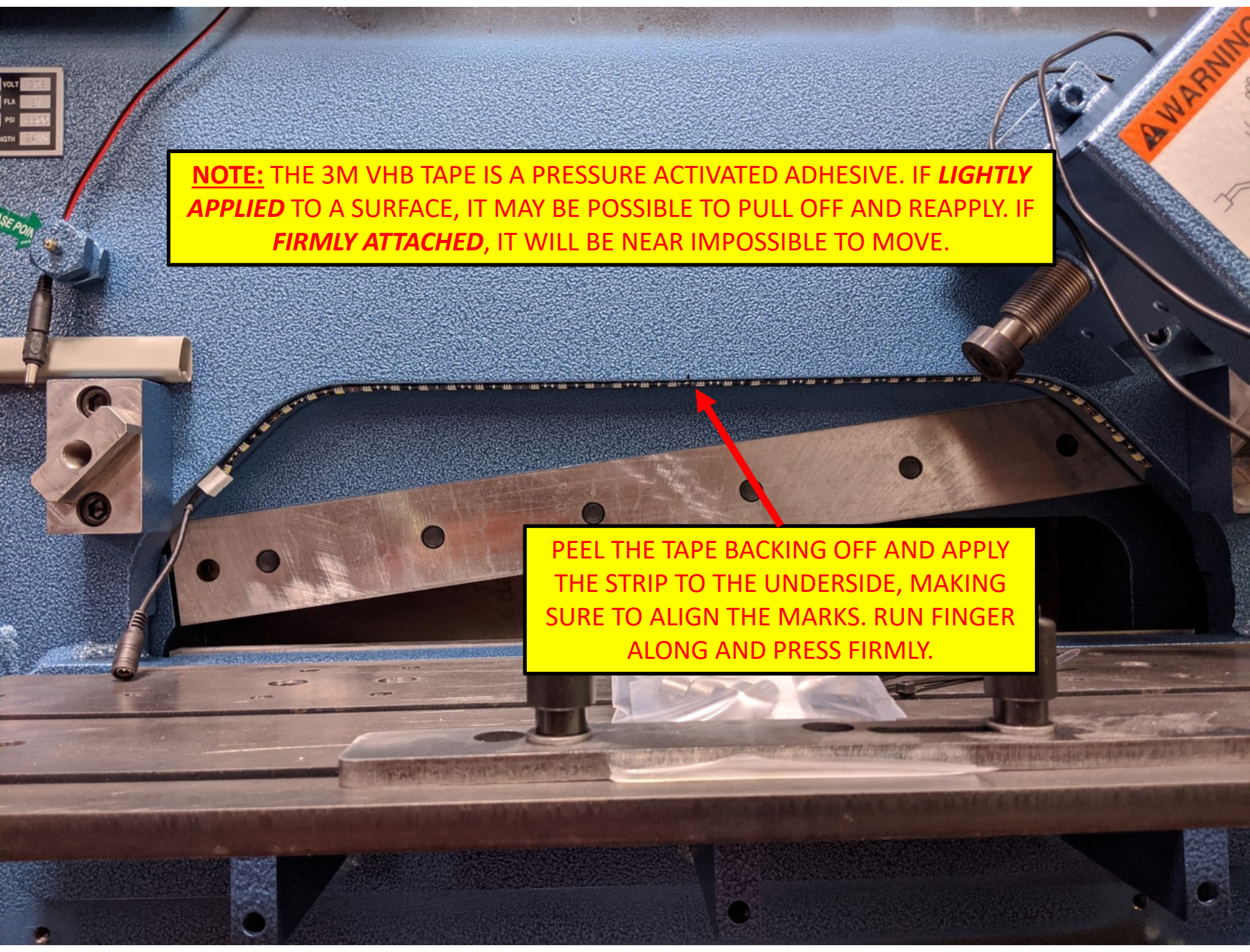




**NOTE:** BEFORE APPLYING THE LED STRIP, IT IS VERY IMPORTANT TO CLEAN THE SURFACE AS DETAILED [HERE](#).

CLEAN UNDERSIDE.

HOLD THE STRIP UP WITH THE PLASTIC CONNECTOR (ON LEFT) FLAT AGAINST THE FRAME. MAKE A SMALL MARK THAT CORRESPONDS WITH THE MARK ON THE STRIP (SEE NEXT PAGE).



**NOTE:** THE 3M VHB TAPE IS A PRESSURE ACTIVATED ADHESIVE. IF **LIGHTLY APPLIED** TO A SURFACE, IT MAY BE POSSIBLE TO PULL OFF AND REAPPLY. IF **FIRMLY ATTACHED**, IT WILL BE NEAR IMPOSSIBLE TO MOVE.

PEEL THE TAPE BACKING OFF AND APPLY THE STRIP TO THE UNDERSIDE, MAKING SURE TO ALIGN THE MARKS. RUN FINGER ALONG AND PRESS FIRMLY.

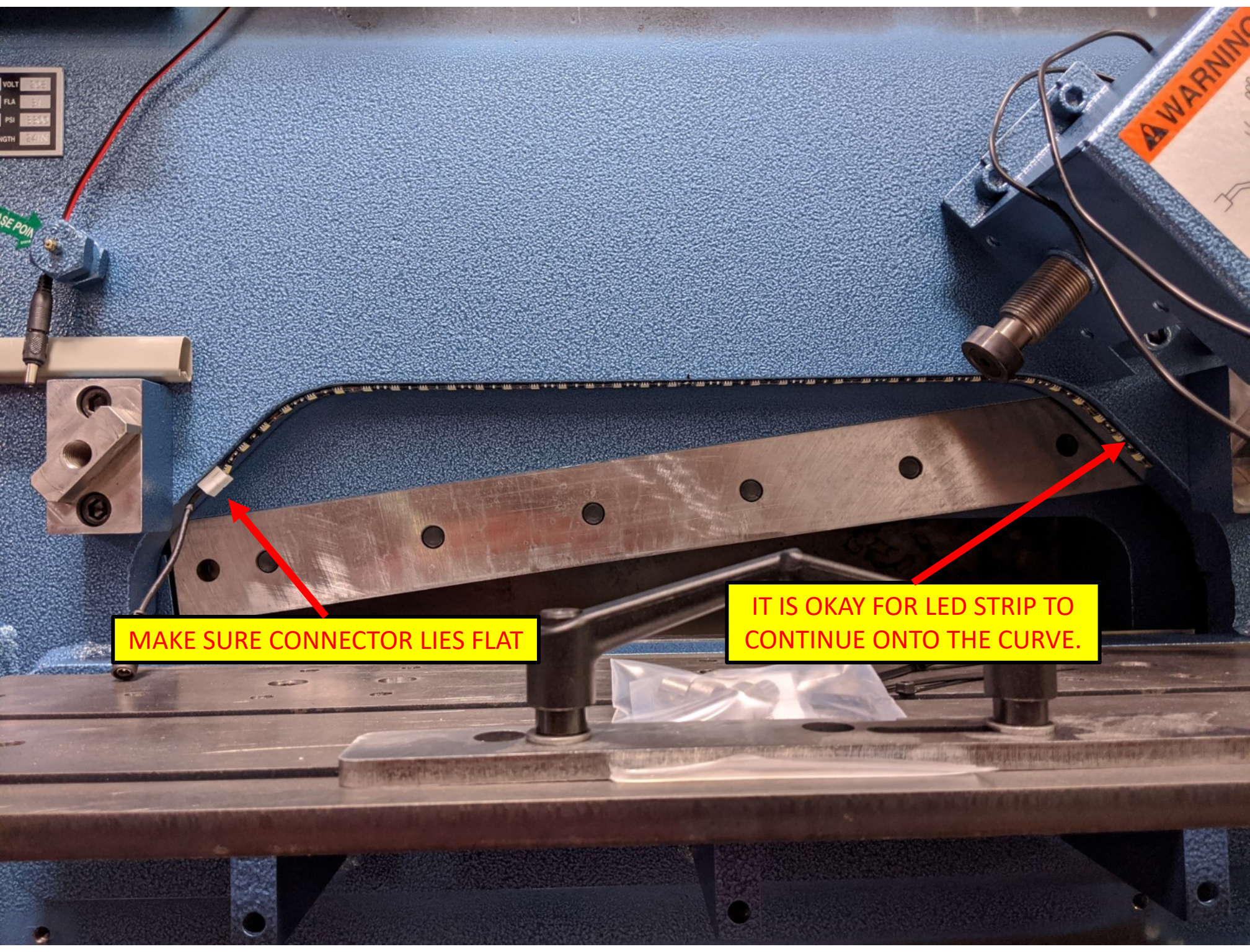
VOLT 110  
FLA 15  
PSI 555  
WGTH 1.40

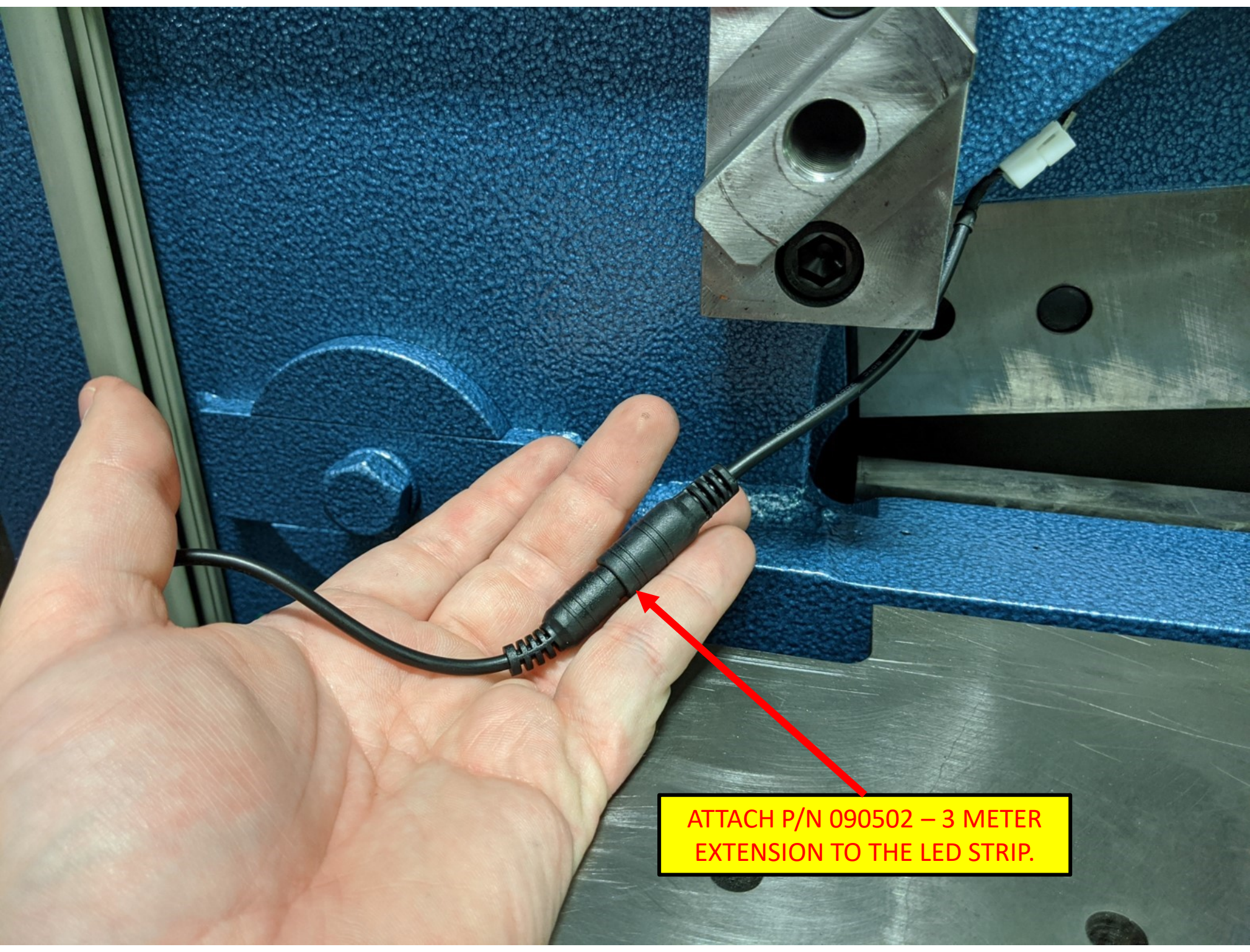
USE PDM

WARNING

MAKE SURE CONNECTOR LIES FLAT

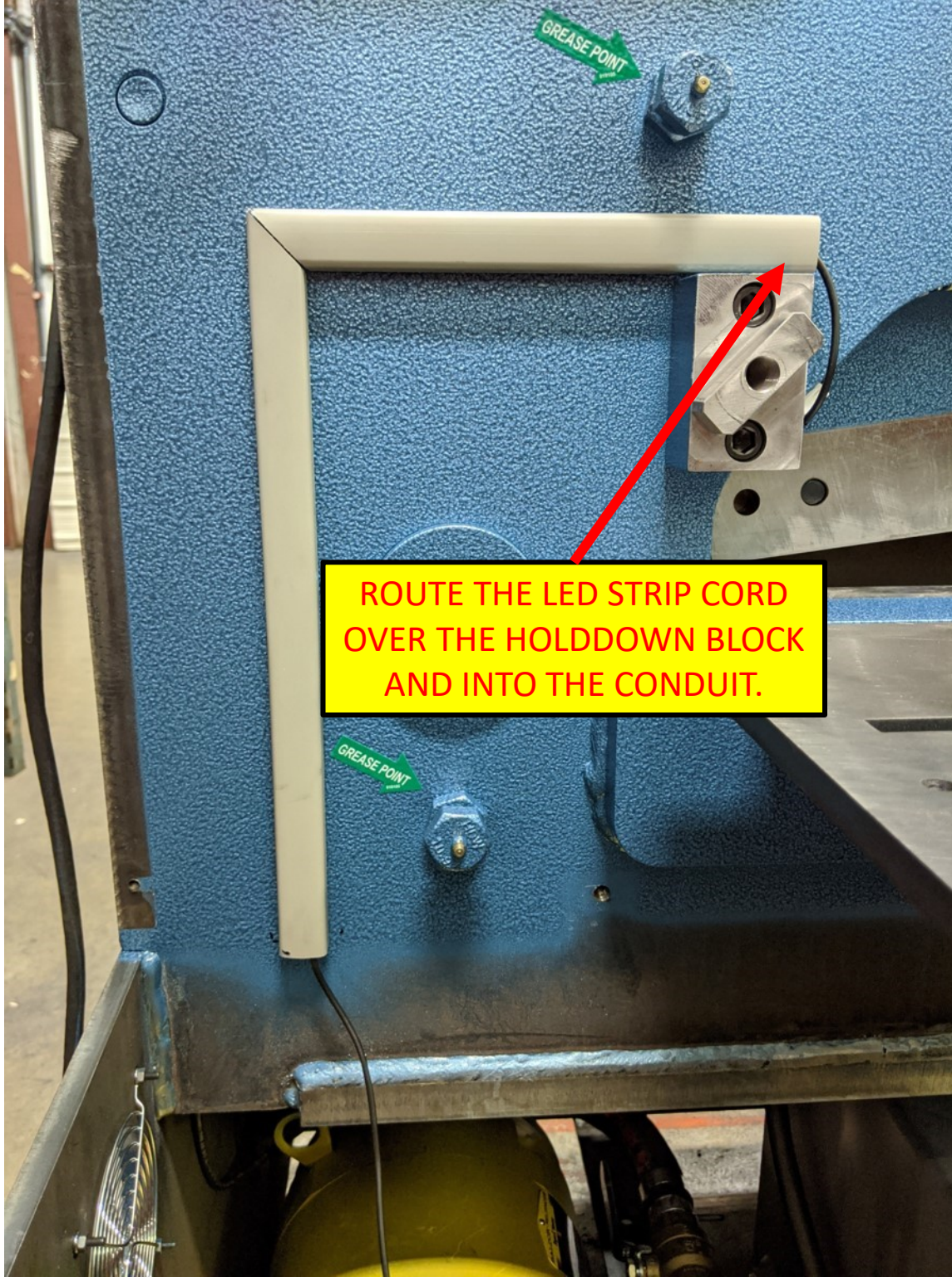
IT IS OKAY FOR LED STRIP TO CONTINUE ONTO THE CURVE.



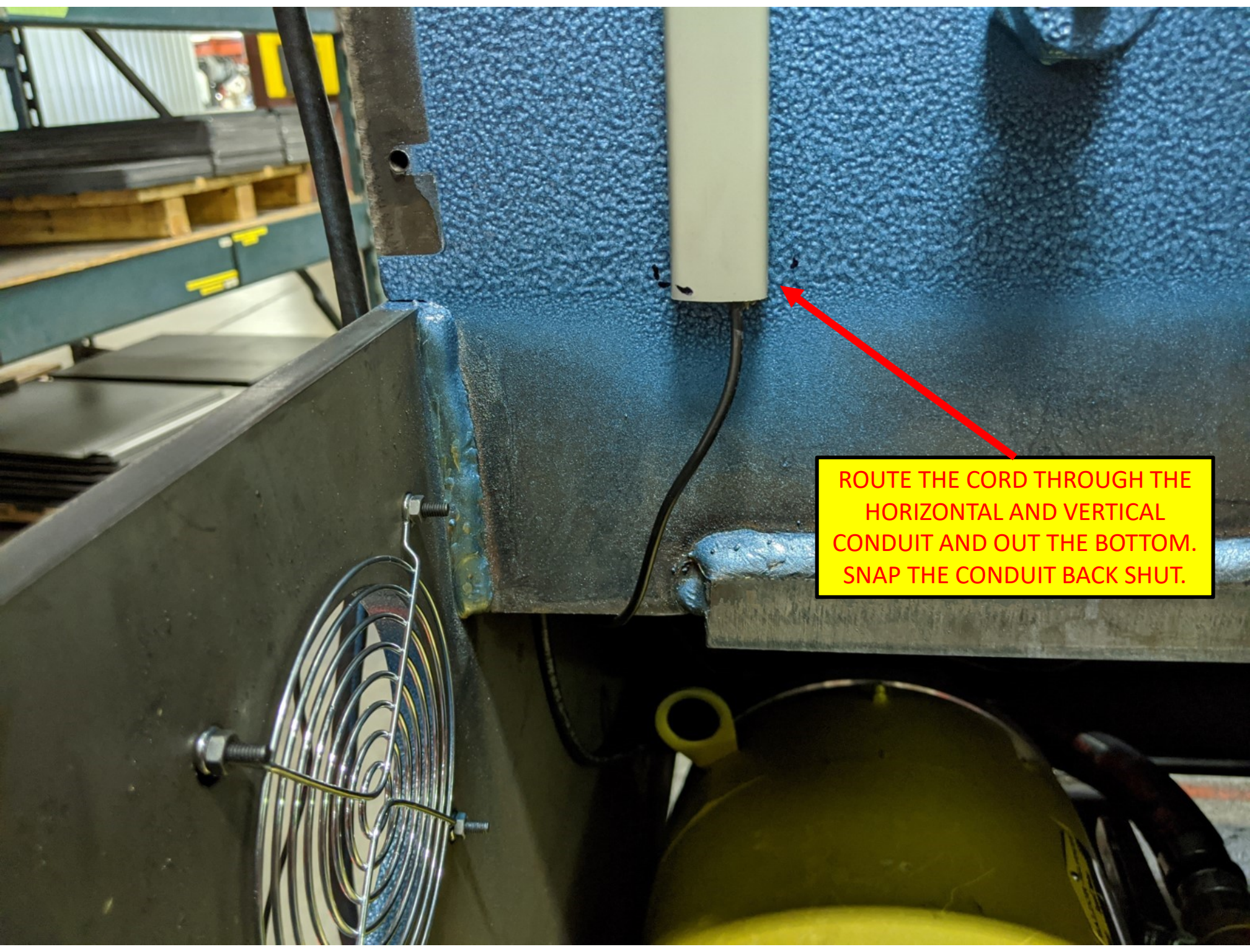


**ATTACH P/N 090502 – 3 METER  
EXTENSION TO THE LED STRIP.**

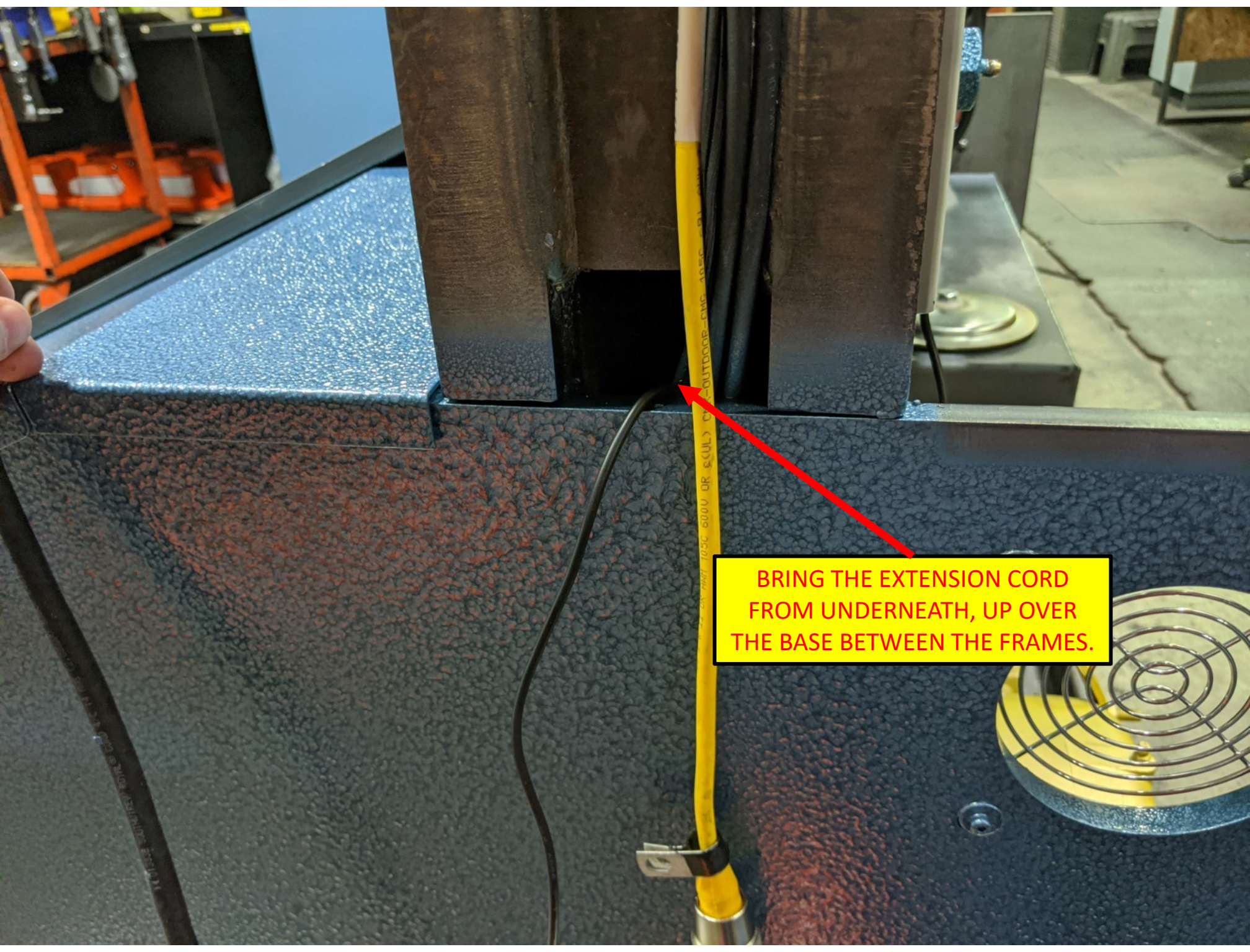




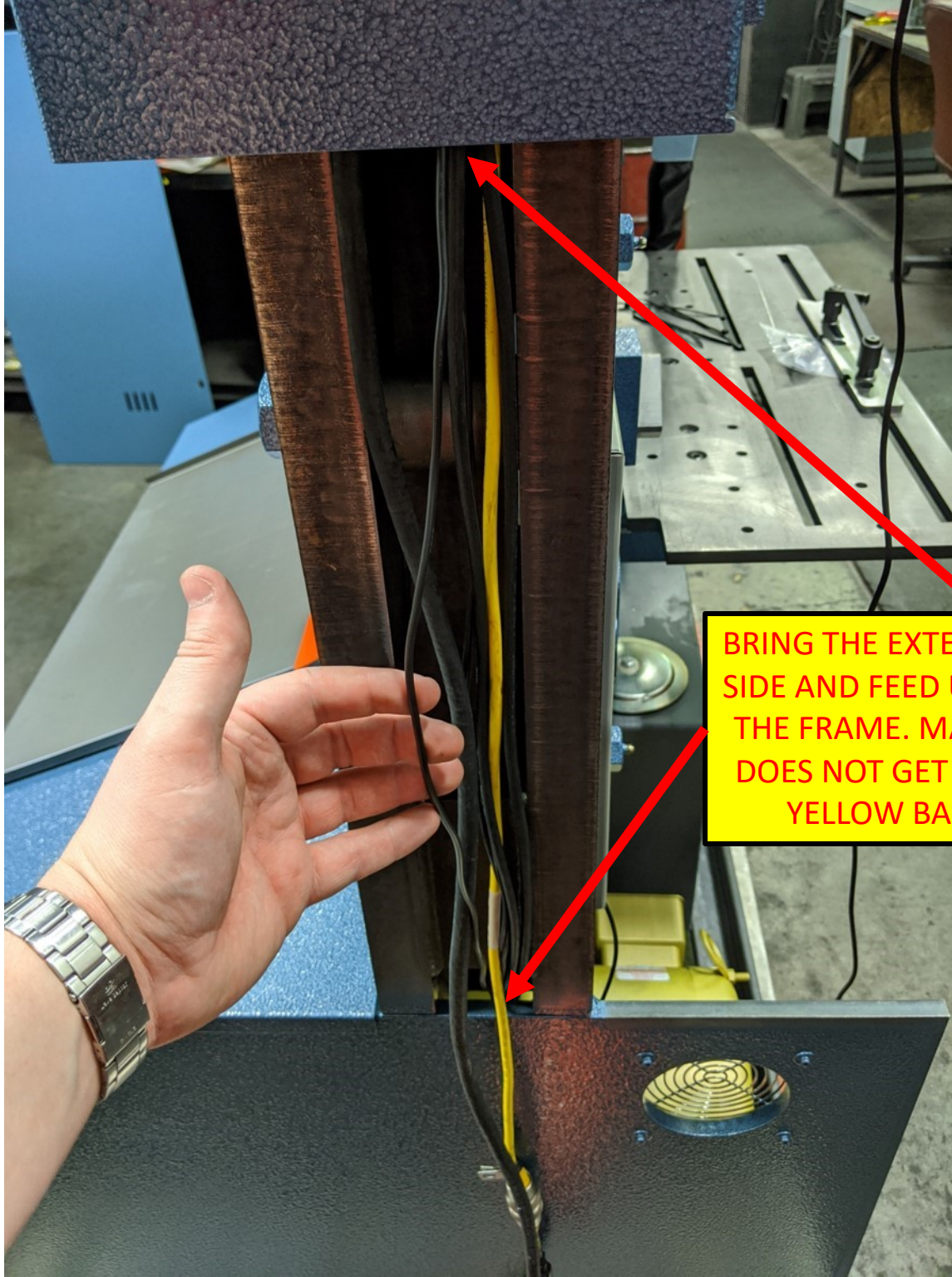
**ROUTE THE LED STRIP CORD  
OVER THE HOLDDOWN BLOCK  
AND INTO THE CONDUIT.**



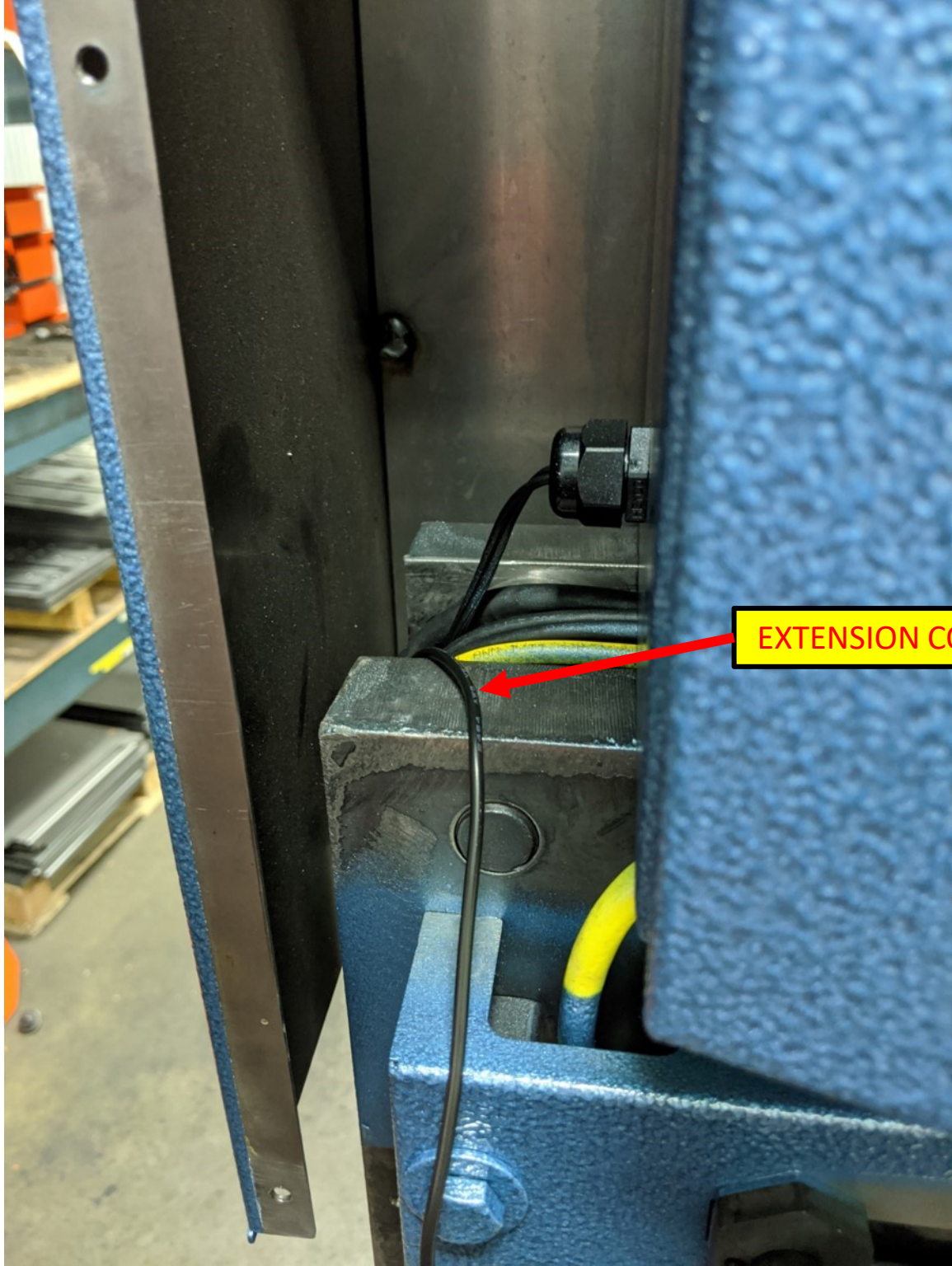
ROUTE THE CORD THROUGH THE  
HORIZONTAL AND VERTICAL  
CONDUIT AND OUT THE BOTTOM.  
SNAP THE CONDUIT BACK SHUT.



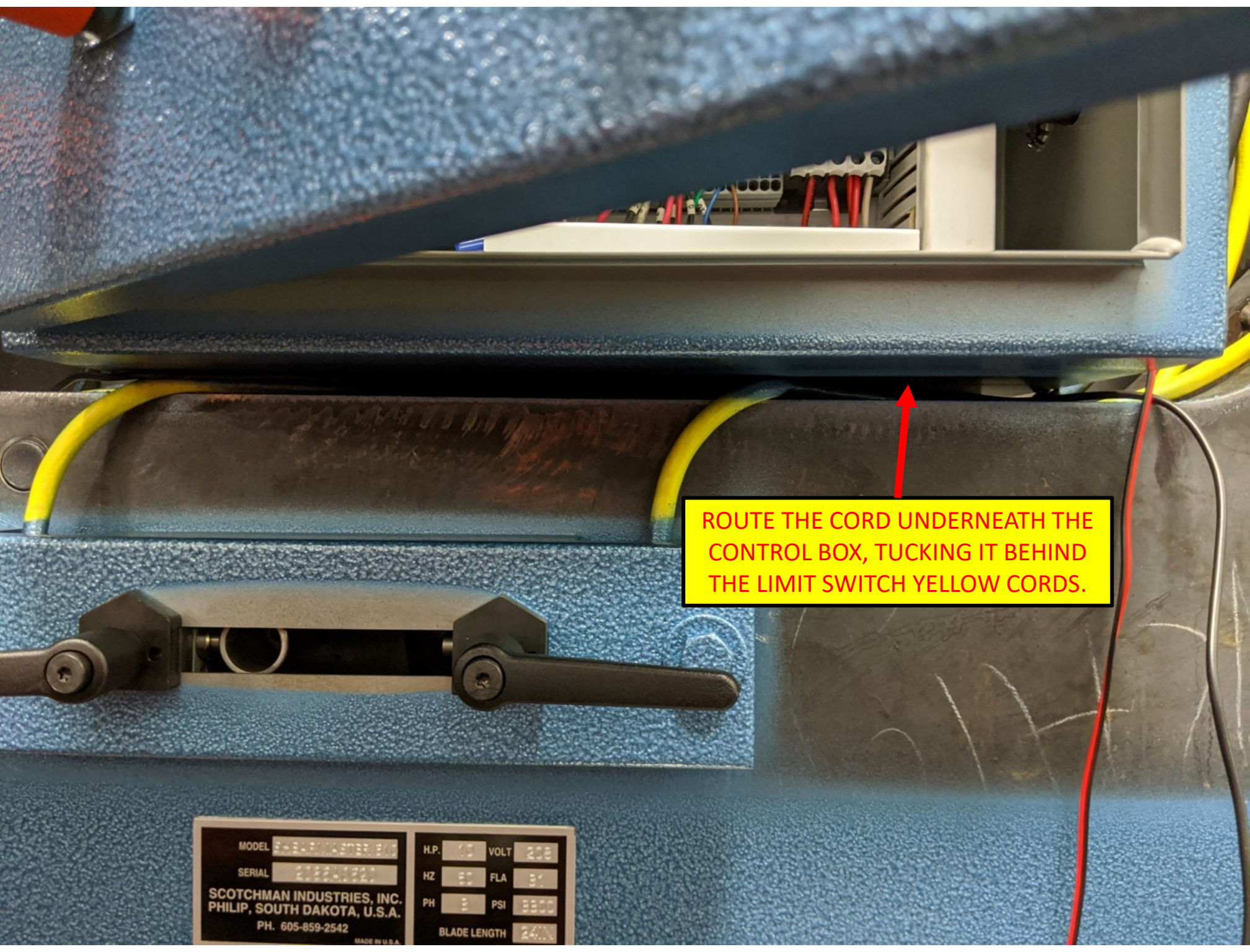
**BRING THE EXTENSION CORD FROM UNDERNEATH, UP OVER THE BASE BETWEEN THE FRAMES.**



**BRING THE EXTENSION CORD UP THE SIDE AND FEED UP OVER THE TOP OF THE FRAME. MAKE SURE THE CORD DOES NOT GET TANGLED WITH THE YELLOW BACKGAUGE CORD.**



EXTENSION CORD.



ROUTE THE CORD UNDERNEATH THE CONTROL BOX, TUCKING IT BEHIND THE LIMIT SWITCH YELLOW CORDS.

MODEL	2222-1000	H.P.	1/2	VOLT	208
SERIAL	2222-1000	HZ	60	FLA	11
SCOTCHMAN INDUSTRIES, INC.		PH	5	PSI	6000
PHILIP, SOUTH DAKOTA, U.S.A.		BLADE LENGTH		24	
PH. 605-859-2542		MADE IN U.S.A.			



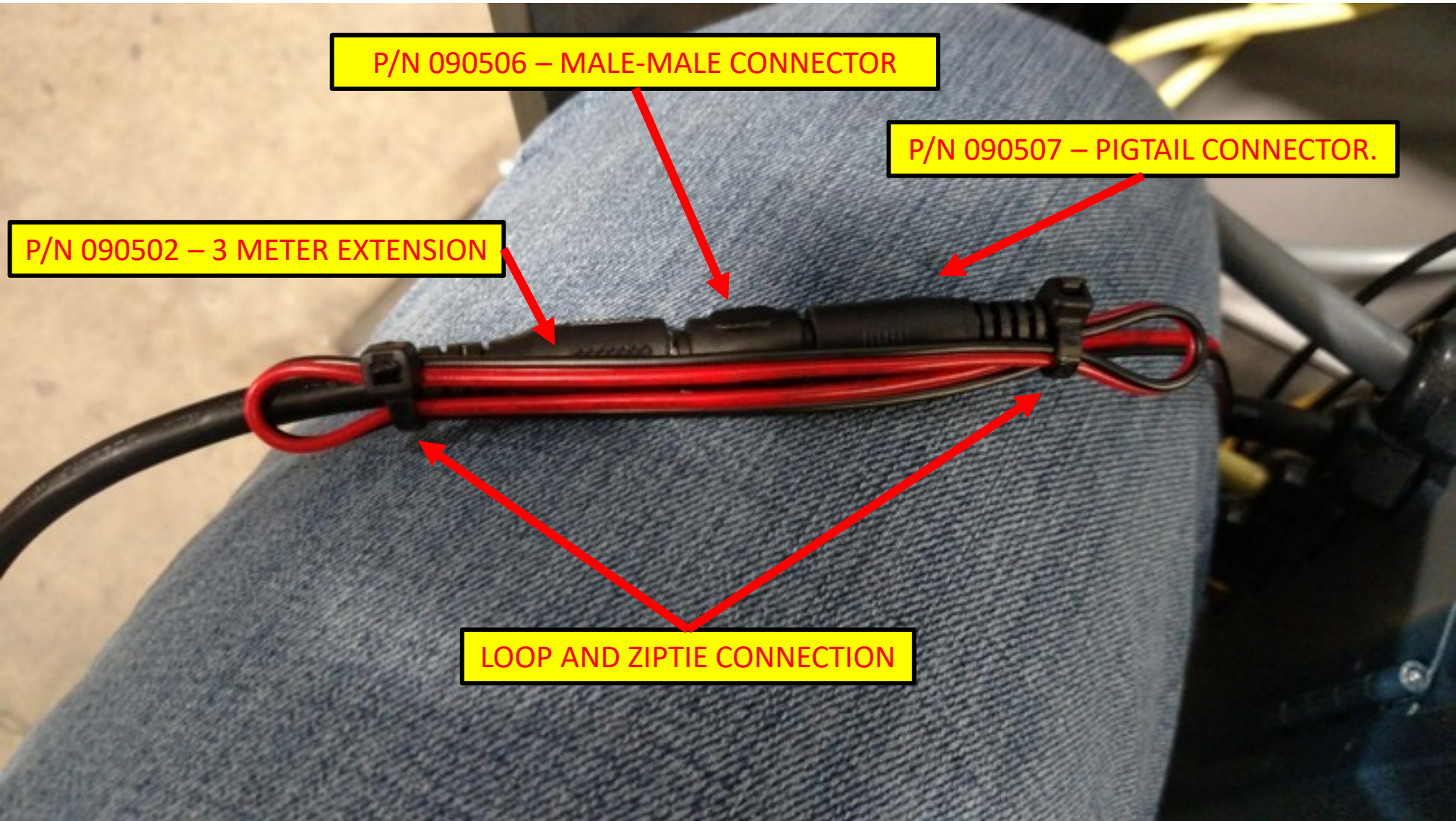
ZIP TIE THE EXTENSION CORD TO A  
LIMIT SWITCH CORD TO SECURE IT.

P/N 090506 – MALE-MALE CONNECTOR

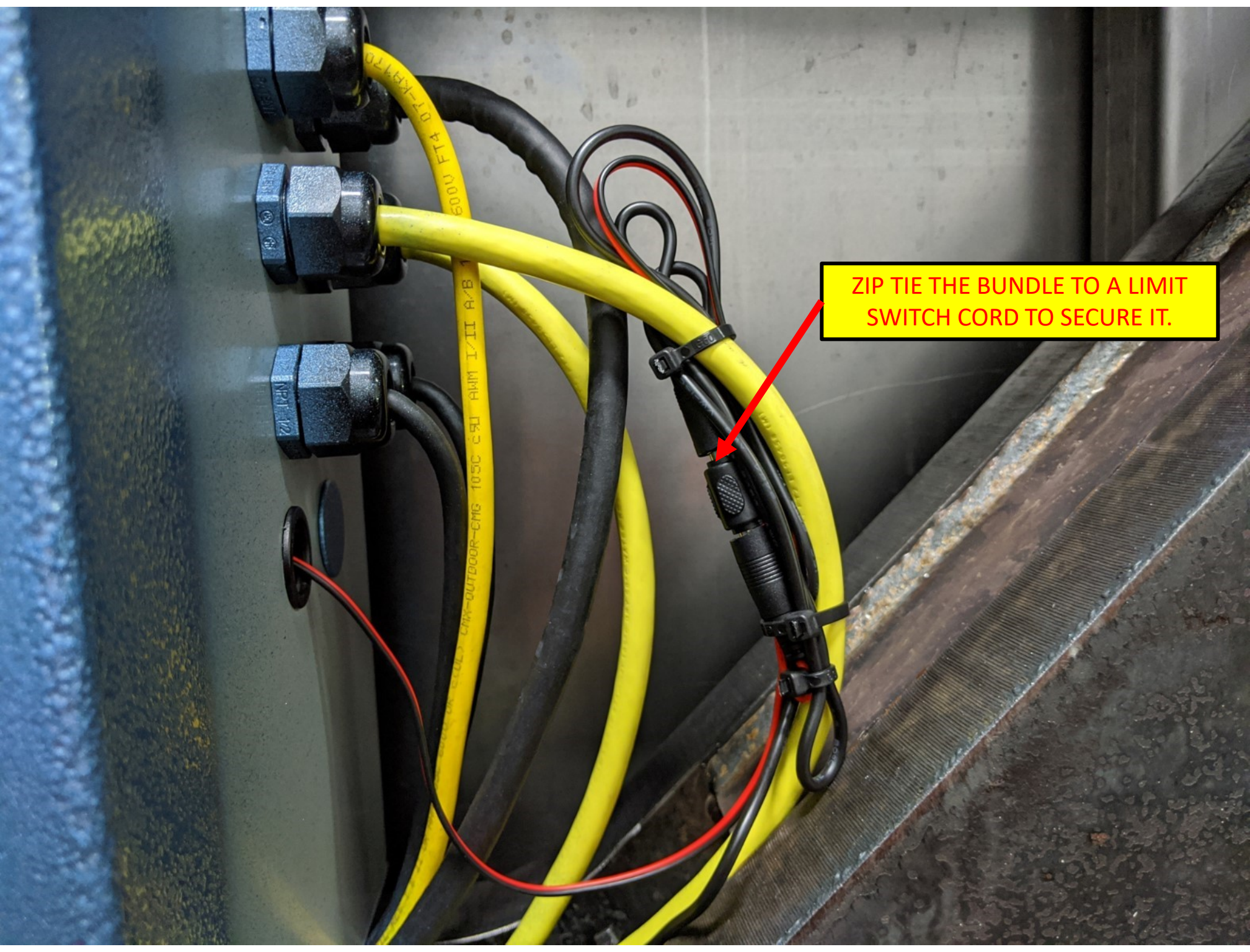
P/N 090507 – PIGTAIL CONNECTOR.

P/N 090502 – 3 METER EXTENSION

LOOP AND ZIPTIE CONNECTION







ZIP TIE THE BUNDLE TO A LIMIT SWITCH CORD TO SECURE IT.

A blue industrial machine, likely a bandsaw, is shown. A red arrow points from a yellow text box to a bolt hole on the side shroud. The machine has a specification label and a yellow tank at the bottom.

MODEL	A11A1157	H.P.	1/2	VOLT	208
SERIAL	2024422	HZ	60	FLA	57
SCOTCHMAN INDUSTRIES, INC. PHILIP, SOUTH DAKOTA, U.S.A. PH. 605-859-2542 MADE IN U.S.A.		PH	3	PSI	2500
		BLADE LENGTH	24		

**REPLACE SIDE SHROUD AND SECURE WITH 4X – M6 WHIZ-LOCK BOLTS. (SEE NEXT PAGE FOR BACKSIDE)**

54X

MAKE SURE THAT THE BACKGAUGE CORD IS  
ROUTED UNDERNEATH THE SIDE SHROUD  
OPENING AND SECURED AS SHOWN.



AN INDUSTRIES, INC.  
SOUTH DAKOTA, U.S.A.  
1. 605-859-2542

HP	VOLT
KZ	FLA
PH	PH
BLADE LENGTH	

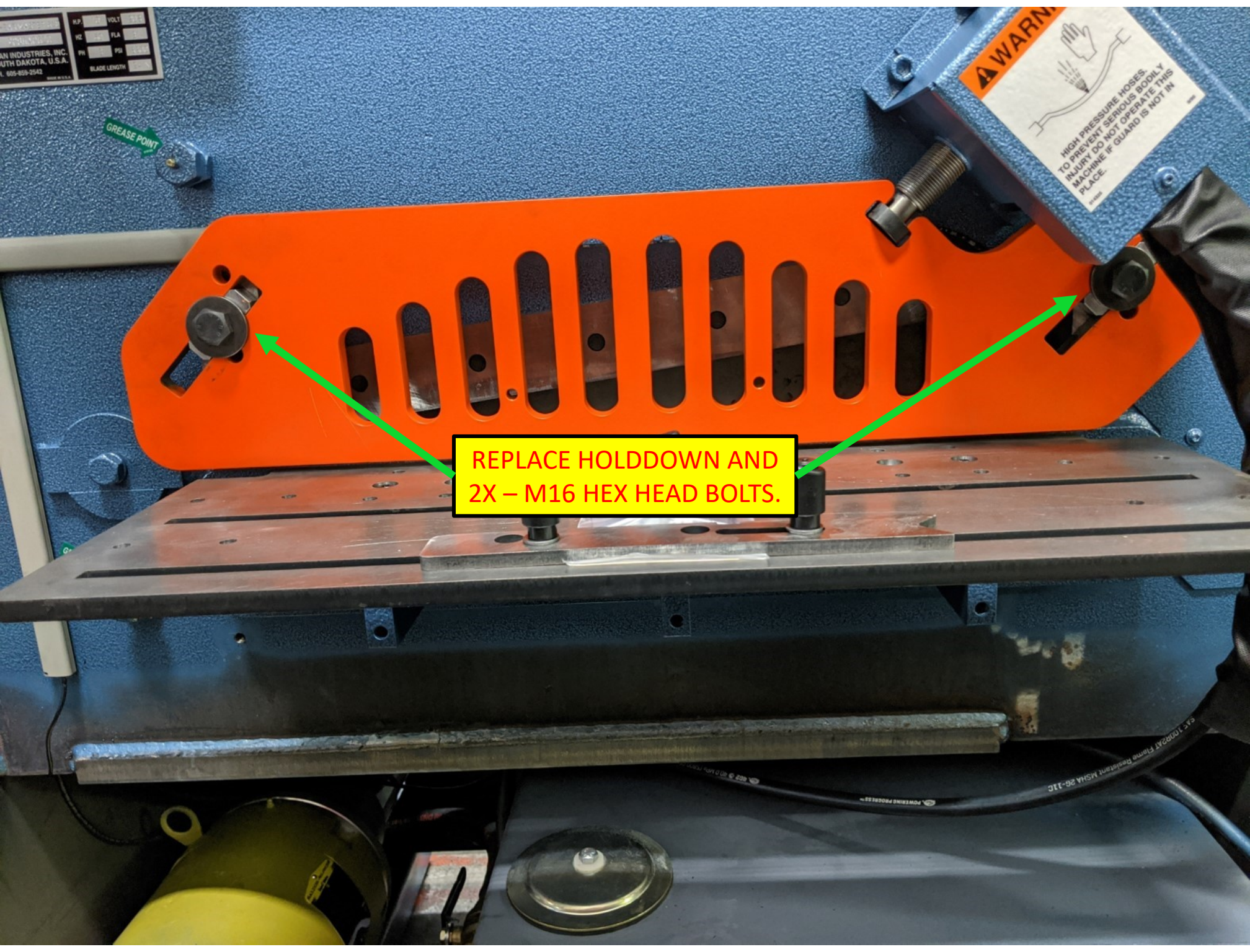
GREASE POINT

**WARNING**



HIGH PRESSURE HOSES.  
TO PREVENT SERIOUS BODILY  
INJURY DO NOT OPERATE THIS  
MACHINE IF GUARD IS NOT IN  
PLACE.

REPLACE HOLDDOWN AND  
2X – M16 HEX HEAD BOLTS.





REPLACE FRONT SHROUD AND  
4X - M10 WHIZ-LOCK BOLTS.

Scatchman  
MADE IN USA

Presto

GREASE POINT



REPLACE TOP FRONT SHROUD AND SECURE WITH 9X – M6 WHIZ-LOCK BOLTS.

CLOSE ELECTRICAL BOX AND TURN DISCONNECT ON.

208 VOLTS



**WARNING**  
TO PREVENT SERIOUS BODILY INJURY  
DO NOT REMOVE THIS SIGN FROM THIS MACHINE FOR MAINTENANCE CONTACT SCOTCHMAN INDUSTRIES, INC. 877-882-8844

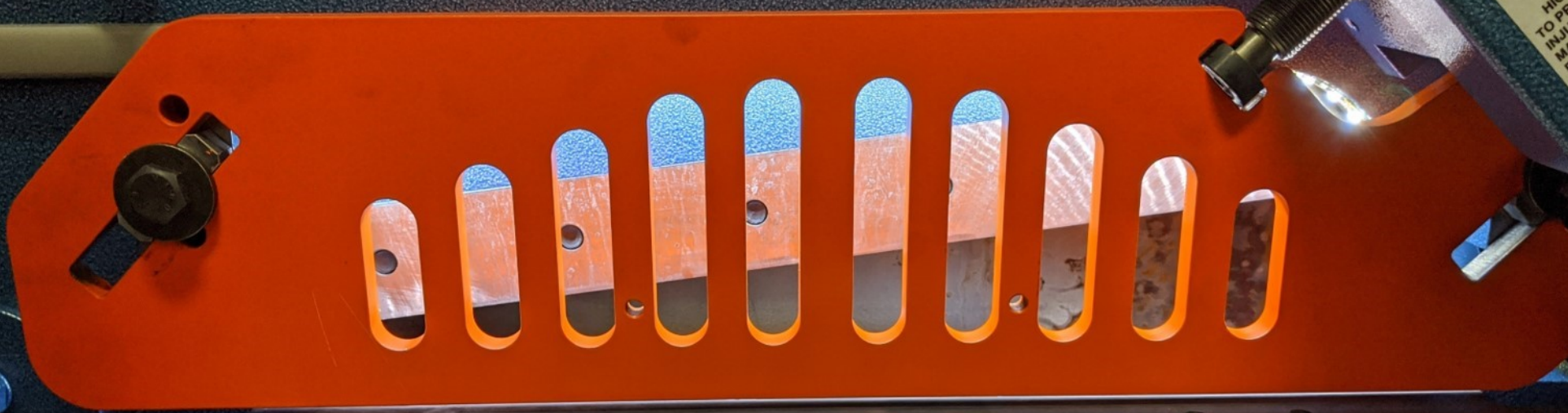
**WARNING**  
NEVER REVERSE FEEDERS TO PREVENT SERIOUS BODILY INJURY. DO NOT OPERATE THIS MACHINE IF FEEDERS ARE NOT IN PLACE.

SCOTCHMAN INDUSTRIES, INC.  
PHILIP, SOUTH DAKOTA, U.S.A.  
PH: 605-493-4949

GREASE POINT

FLA  
PSI  
BLADE LENGTH

GREASE POINT



REMOVE LOCKOUT/TAGOUT RESTRICTIONS, PLUG INTO ELECTRICAL SOURCE, AND PULL THE E-STOP OUT IF ENGAGED.

