

CC440 Production / Industrial Hose Crimper



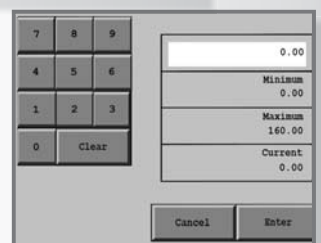
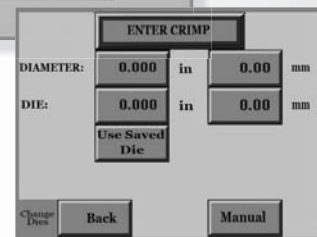
The CC440 Series hose crimper with the Patented ACT™ Controller and 265 tons of crimping force has the capability to crimp hoses from ¼" up to 4" in diameter.

UNIQUE USER FRIENDLY PATENTED ACT™ CONTROLLER

- Fully adjustable crimp to diameter.
- Production capabilities.
- Pressure Compensation uses pressure to eliminate "trial and error".
- Memory capacity for accurate repeatability.
- Automatically converts inch to mm and mm to inch so that no calculation is ever required.



Max Head Opening W/O Dies: Can accommodate 4" 150 lbs SAE flange.



CC440 CRIMPER OPERATORS MANUAL WITH ACT™ CONTROLLER



SAFETY PRECAUTIONS



SAFETY PRECAUTIONS



- READ INSTRUCTIONS AND IDENTIFY ALL COMPONENT PARTS BEFORE USING CRIMPER.
- CRIMPER CC440 CAN PRODUCE 265 TONS OF CRIMPING FORCE.
- KEEP BOTH HANDS AWAY FROM PINCH POINTS.
- CONSULT HOSE AND FITTING MANUFACTURER FOR CORRECT MACHINE SETTINGS AND CRIMP MEASUREMENTS.
- ALWAYS WEAR EYE PROTECTION.



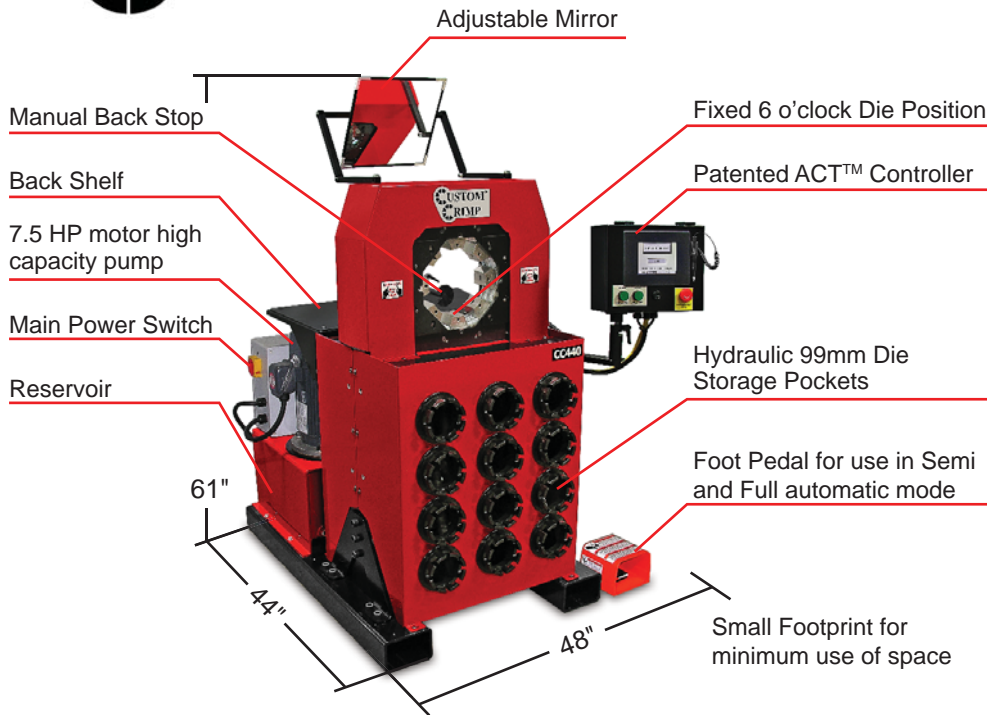
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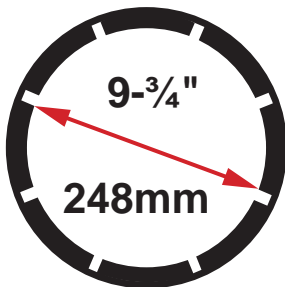


COMPONENT PARTS & TECHNICAL DATA

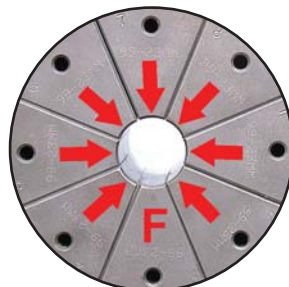


Technical Data
265 Ton
*Max 2SP: 2", 4SP: 2", 6SP: 1-1/2"
*Max Industrial: 4"
L: 44" x W: 48" x H: 61"
Weight: 1,840 lbs
Power: 7.5HP/230V/3Phase (Standard) 7.5HP/440V-480V/3Phase (Optional) 5HP/230V/1Phase (Optional)
Die series: 99P / 160S
Adjustability: Inch / Metric
Opening w/o dies: 248mm / 9.75"
Master die inside diameter: 160mm / 6.3"
Master die travel: 102mm / 4"
Reservoir capacity: 8 US Gallons
Oil type: ISO 46 Hydraulic Oil

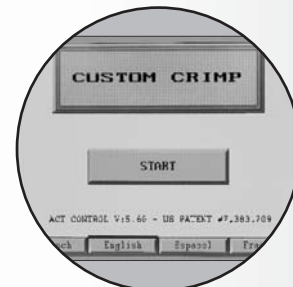
*Crimper capacity is estimated based on typical 1-piece fitting. Actual results may vary depending on the hose and fitting manufacturer.



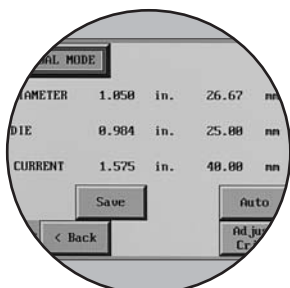
Max Head Opening W/O Dies: Can accommodate 4" 150 lbs SAE flange.



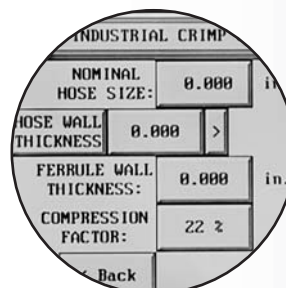
Fixed 6 O'clock Die Position: Allows the operator to place the fitting on bottom die and crimp.



Patented ACT™ Controller: Offers 4 language settings to choose from English, Espanol, Deutsch and Francais.



Features Of Operator Interface: User Friendly navigation, Manual Mode, Semi Auto Mode, Full Auto Mode and Production Features.



Industrial Crimp Calculator: Takes guesswork out of industrial crimping.

CC440 Production / Industrial Hose Crimper



INITIAL SET UP

- Check the oil level in the sight glass on the front of the reservoir.
- 8 U.S. gallons of ISO 46 hydraulic oil is required to completely refill the reservoir.

Note: Oil can be drained from either of the two ports at the bottom (front) of the reservoir.



- Check electrical circuit to be certain that it matches to the crimper requirements as shown on the voltage tag attached on the electrical cord.

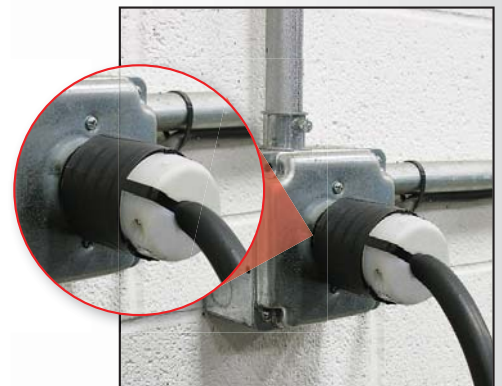
Electrical Requirements:

- 7.5HP/230V/3Phase (20 Amp)
- 7.5HP/440V-480V/3Phase (20 Amp)
- 5HP/230V/1Phase (30 Amp)



- Plug the cord directly into the appropriate wall outlet.

Caution: Do not run the crimper on an extension cord as low voltage can damage the motor and / or electrical components.



- Check to be certain that the motor rotates in the direction of the arrow shown on the motor housing.
- If motor rotation is incorrect reverse any two hot wires in the crimper plug. (For 3 phase circuits only).

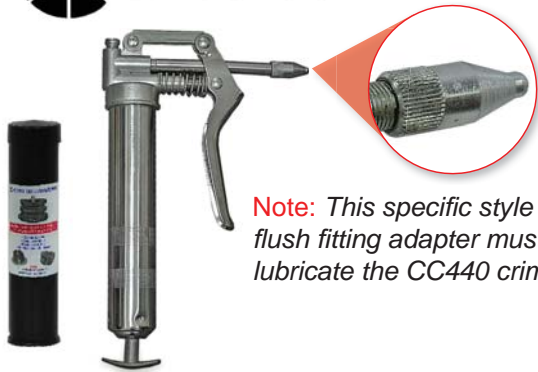
Note: Damage to the pump can result if the motor does not rotate in the correct direction.



CC440 Production / Industrial Hose Crimper



LUBRICATION PROCEDURE



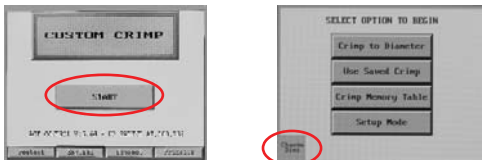
Note: This specific style of grease gun flush fitting adapter must be used to lubricate the CC440 crimper.

Note: Use the mini grease gun w/ flush fitting adapter and CrimpX grease (supplied with crimper) or a high quality moly-disulfide grease.

Failure to do so may result in damage to the wearing surfaces.

- Lubricate the crimping head after each 400 crimping cycles or at the start of each shift if the crimper is used in a production setting.

Note: Tap the START button then CHANGE DIES button in the lower left corner of the screen; it will start to flash. This button allows you to “jog” the crimper head in and out during die installation using the green CLOSE and OPEN button below the screen on the front of the ACT™ Controller.



- Bring the master dies to the fully opened position, and lubricate the fittings visible through the 2 bottom lubrication fittings in the protective plate (as shown in photo #1).

- Bring the master dies to the fully closed position, and lubricate the master dies through the 8 lubrication fittings in the protective plates (as shown in photo #2).

- With the master dies still in the fully closed position, lubricate the (4) lubrication fittings on each side of the crimper (as shown in the photo #3 and #4).

Note: Parking the crimper in the full open position when not in use will prolong the life of the master die springs.

- Check the wear surfaces for grease. If the surfaces show any signs of wear, apply more grease. If you touch the wear surfaces, you should see a thin layer of grease on your finger.

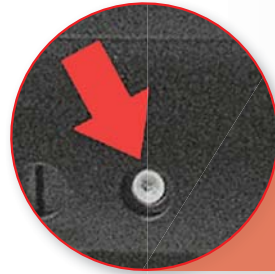


Photo #1

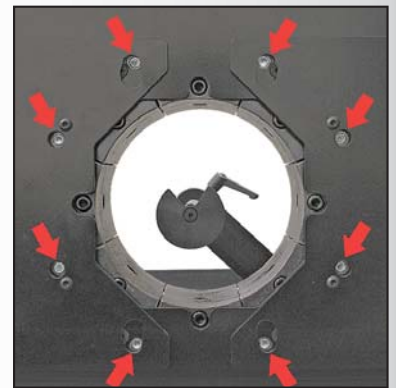
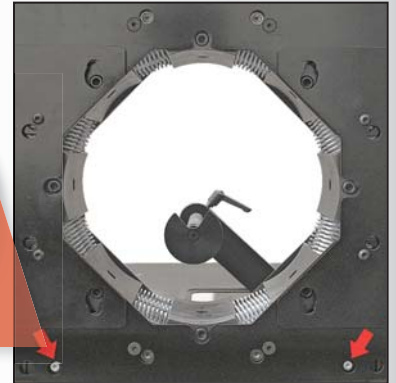
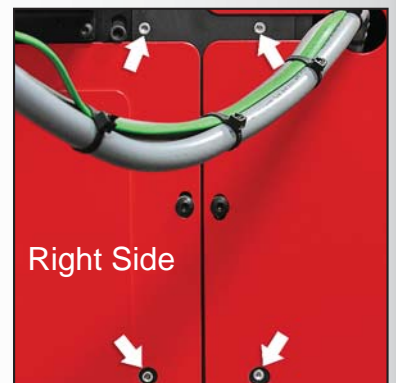


Photo #2



Left Side

Photo #3



Right Side

Photo #4



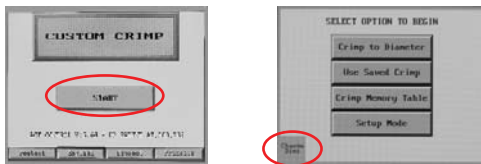
ADAPTER DIE INSTALLATION

ADAPTER DIE INSTALLATION:

Note: 160 mm to 99 mm Adapter Dies are available with the crimper. Adapter dies are held in place by the die locking pins (as shown in photo #1).

The I.D. of the adapter dies must match the O.D. of the corresponding adapter die or hydraulic die or accurate crimps can not be made.

Note: Tap the START button then CHANGE DIES button in the lower left corner of the screen; it will start to flash. This button allows you to “jog” the crimper head in and out during die installation using the green CLOSE and OPEN button below the screen on the front of the ACT™ Controller.



- Bring the master dies to the fully opened position (as shown in photo #2). To have access to the (8) master die locking studs.

- Install the 160 mm to 99 mm Adapter Dies (as shown in photo #3).

Note: The die size stamped on the face of the adapter dies should face toward the operator.

Note: Use the T-Handle Wrench provided to loosen and tighten the master die locking studs to secure the adapter dies (as shown in photo #4).

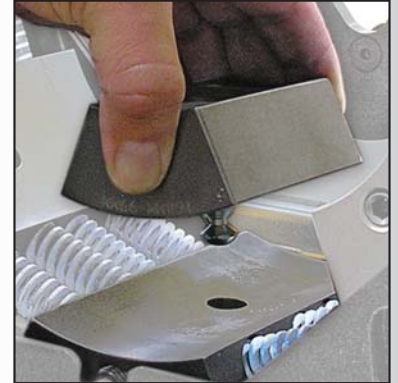


Photo #1

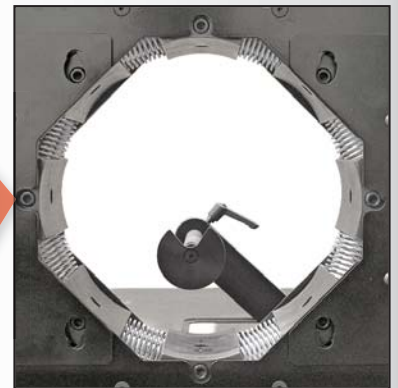
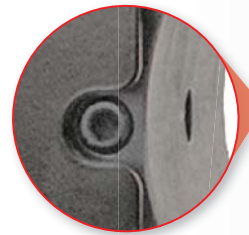


Photo #2



Photo #3

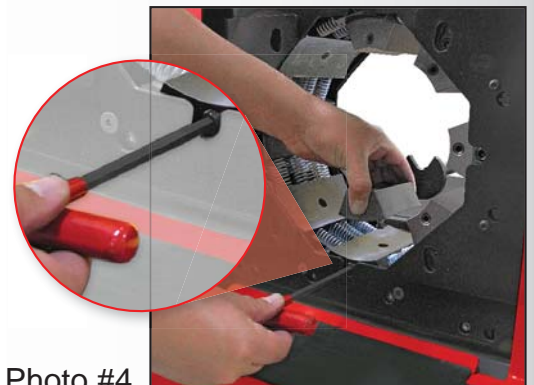


Photo #4



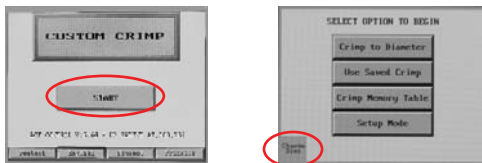
HYDRAULIC DIE INSTALLATION

HYDRAULIC DIE INSTALLATION:

- With the 160 mm to 99 mm Adapter Dies installed, use the Quick Change Tool to install the hydraulic dies.

The I.D. of the adapter dies must match the O.D. of the corresponding hydraulic die or accurate crimps can not be made.

Note: Tap the START button then CHANGE DIES button in the lower left corner of the screen; it will start to flash. This button allows you to “jog” the crimper head in and out during die installation using the green CLOSE and OPEN button below the screen on the front of the ACT™ Controller.



- Bring the crimper head to fully opened position and install the Hydraulic Dies with the quick change tool (as shown in photo #1).

Note: The die size stamped on the face of the hydraulic dies should face toward the operator.

- Align the studs of the Hydraulic Dies with the holes in the Adapter Dies and with the crimper in manual mode SLOWLY close the crimper head on the hydraulic die set (as shown in photo #2).

- Bring the crimper head to a fully closed position (as shown in photo #3).

- Remove the quick change tool as shown in photo #4).

Note: The Hydraulic Dies may also be inserted manually with the crimper head in the fully open position.

Note: For Hydraulic Die removal, place the crimper in manual mode and bring the crimper head to a fully closed position. Insert the quick change tool and open the crimper head releasing the Hydraulic Dies from their spring retention holes.



Photo #1

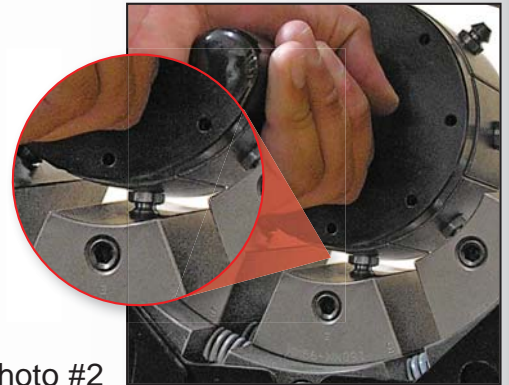


Photo #2



Photo #3

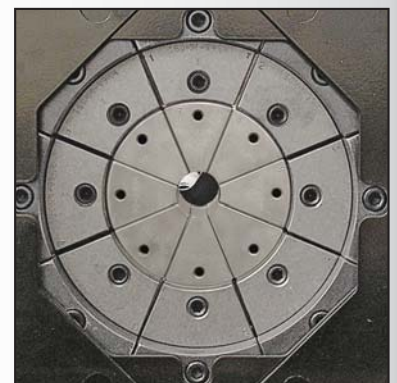
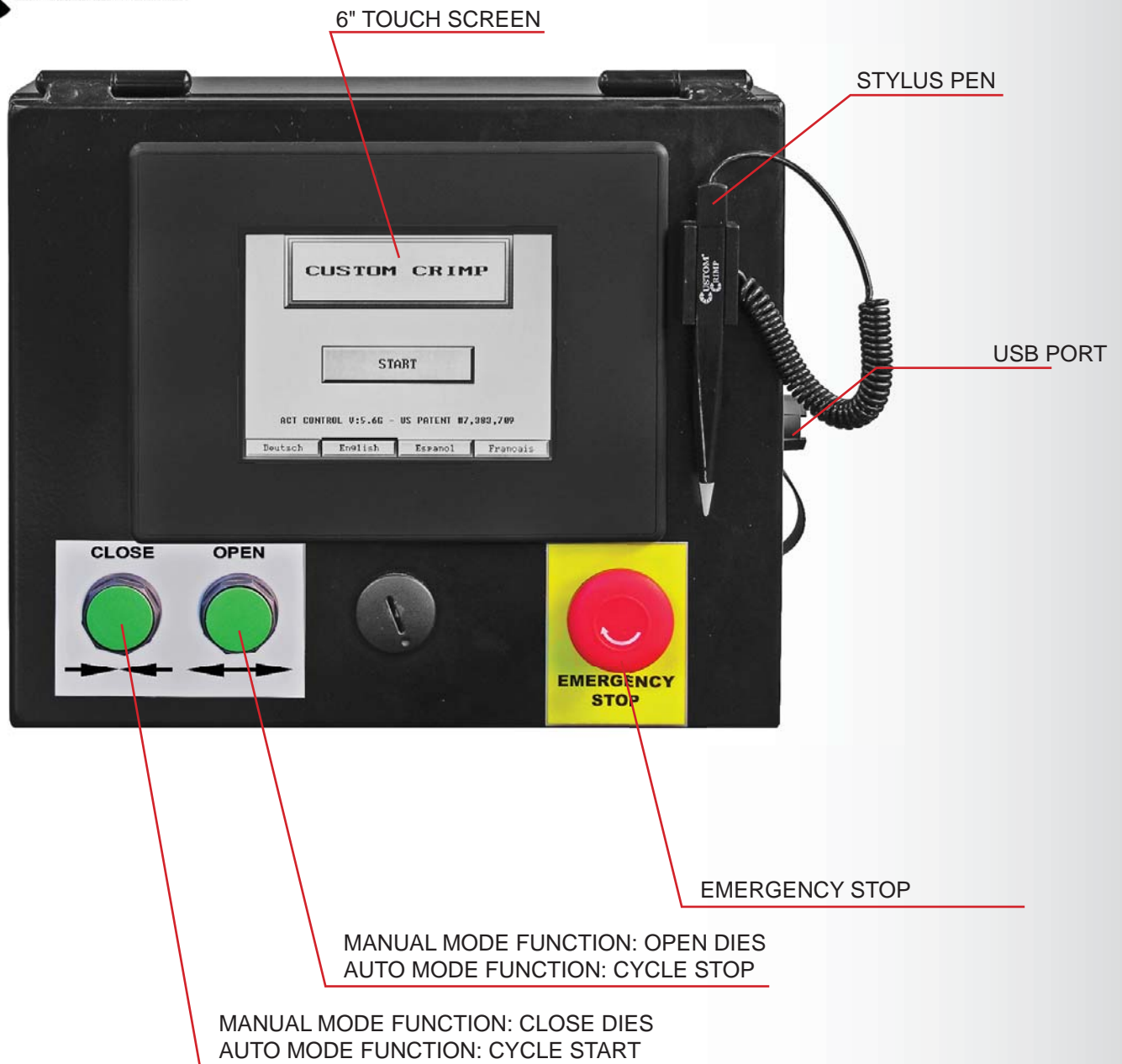


Photo #4

CC440 Production / Industrial Hose Crimper



AccuCrimp ACT™ CONTROL PANEL



NOTE:

IF THE CRIMPER IS IN **MANUAL MODE**, THE GREEN OPEN/CLOSE BUTTONS WILL OPEN AND CLOSE THE CRIMPER HEAD.

IF THE CRIMPER IS IN **AUTO MODE**, THE BUTTONS FUNCTION AS CYCLE START AND CYCLE STOP BUTTONS.

IF THE CRIMPER IS IN **SEMI-AUTO MODE**, PRESSING THE FOOT SWITCH OR THE CLOSE BUTTON WILL CLOSE THE CRIMPER HEAD AND RELEASING WILL HALT THE CLOSING ACTION.

Products covered by all or some of these Patents:
US 7,383,709; US 8,230,714; EP 1,909,987 and Patents Pending.

CC440 Production / Industrial Hose Crimper



AccuCrimp ACT™ CONTROL PANEL QUICK START

While the ACT™ crimper has the ability to perform a number of fully automatic functions, manual operation is also possible. To make a manual crimp, two numbers are needed:

The closed diameter of the die (in either inches or mm).

The finished crimp diameter (in either in or mm)
That's all you need to know. ACT™ does the rest.

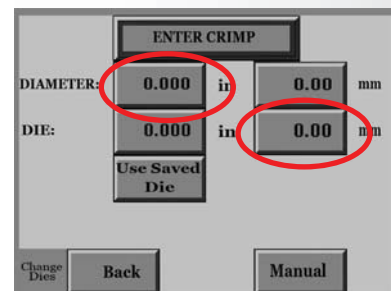
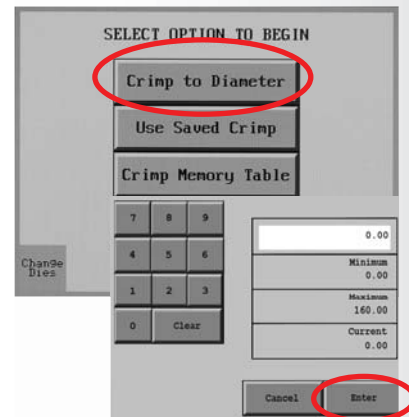
TO MAKE A MANUAL CRIMP:

- Press **START** Button.
- Select **CRIMP TO DIAMETER**.
- Enter the closed diameter of the die set in either in or mm and press **ENTER**. *Note: for a 25mm die, enter 2500. ACT™ will add the decimal point.*

Decimal point entry:
*For 1.56 inch entry, enter 1560 (Controller supplies 3 places for entries in inches).
For a 50.0 mm entry, enter 5000 (Controller will supply 2 decimal places for entries in mm).*

- Enter the finished crimp diameter and press **ENTER**.
- From the **ENTER CRIMP** screen, press the **MANUAL** button to put the crimper in manual mode.
- Confirm that the die and finished crimp diameters are correct and that **MANUAL MODE** is displayed.
- Press and hold the green **CLOSE** button until the crimper stops closing.
- Check the final crimp diameter. If a minor correction is required see [HOW TO MAKE MINOR CORRECTIONS](#).

*Tip: Pressing the **CHANGE DIES** button allows the crimper head to be fully opened or closed with the green **OPEN-CLOSE** buttons on the controller front panel. When the **CHANGE DIES** button is blinking the dies can be opened and closed manually without altering any of the crimper settings.*





AccuCrimp ACT™ CONTROL PANEL QUICK START

HOW TO MAKE MINOR CORRECTIONS

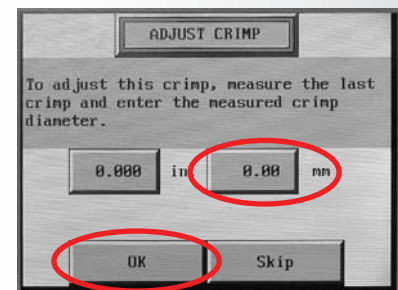
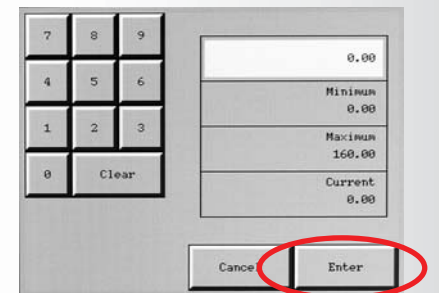
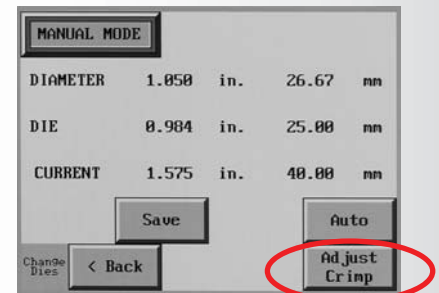
• Due to variations in hose and fitting tolerances a minor crimp adjustment may be required if the measured diameter of the final crimp is not within the hose and fitting manufacturer's specifications. ACT™ technology makes minor corrections a simple process which requires no addition or subtraction.

If the finished crimp diameter is not within the required specifications:

- Press the **ADJUST CRIMP** button.
- Enter the measured diameter of the fitting in either inches or mm (**Do not enter the amount of correction**) and press **ENTER**.
- Press **OK**.
- Make another crimp and verify that the fitting is within specifications.

EXAMPLE: *If the hose and fitting manufacturer specifies that the finished crimp should measure 1.500 to 1.520 and the measured crimp diameter was 1.530, simply enter the measured diameter (1530 - Controller will supply 3 decimal places) and press **SAVE**. The finished crimp diameter can be entered in either in or mm and ACT™ will make the conversion.*

While a single correction will usually bring the hose and fitting into specifications, the process can be repeated as many times as is required.





AccuCrimp ACT™ CONTROL PANEL QUICK START

HOW TO ADD A SAVED DIE

Up to 50 different dies can be saved in the computer memory. These dies can be recalled in the set up process eliminating the need to re-enter the die size each time.

To enter a saved die:

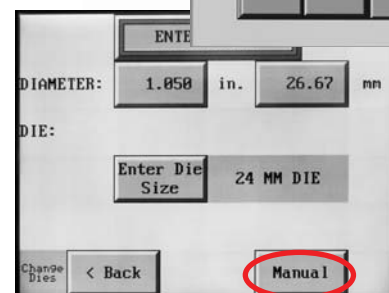
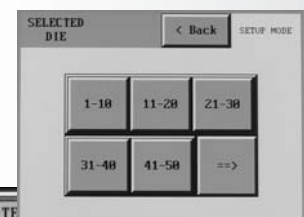
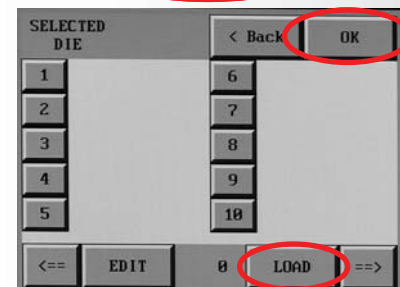
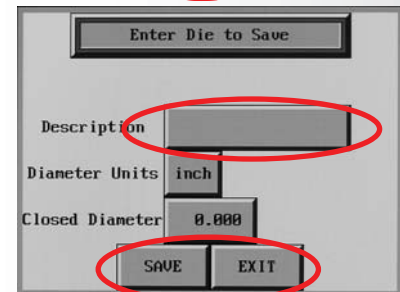
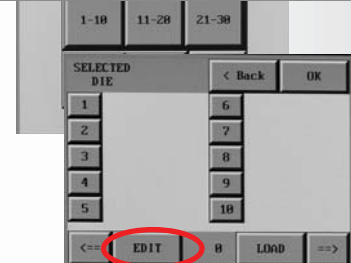
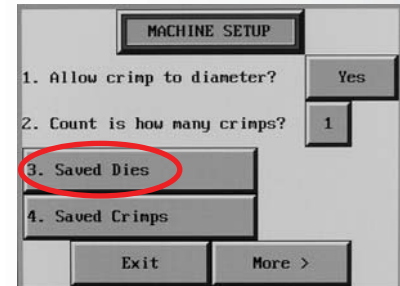
- From the **OPTION** screen, press **SETUP MODE**.
- Select **SAVED DIES**.
- Select the save position (1-50) where the die is to be saved and press the **EDIT** button.
- Enter a die description (up to 12 alpha/numeric characters).
- Enter diameter units (inch or metric).
- Enter the closed diameter of the die.
- Press **SAVE** and **EXIT**.
- The saved die will now appear on the **SELECTED DIE** screen. From this screen individual dies can be cleared or edited.

HOW TO RECALL A SAVED DIE

- Select **CRIMP TO DIAMETER**, and from the **OPTION** screen, select **USE SAVED DIE**.
- Select the saved die (1-50) and press **LOAD** and then **OK**. The die parameters will now be used for the crimp process.

From the **ENTER CRIMP** screen press **MANUAL**.

- The saved die will now be shown on the crimp parameters screen.

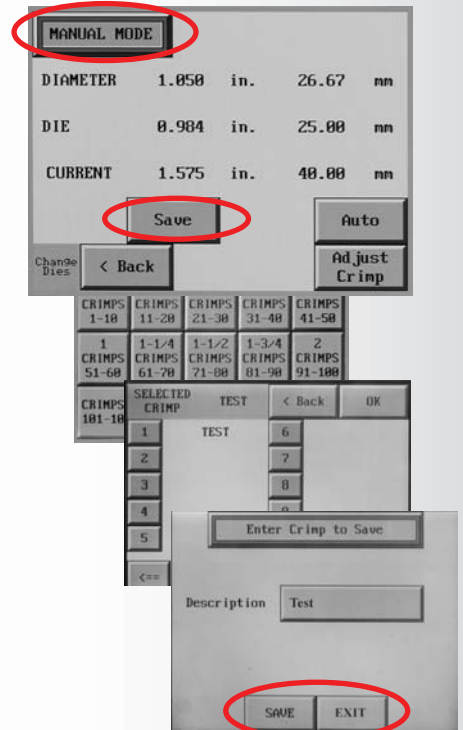




AccuCrimp ACT™ CONTROL PANEL QUICK START

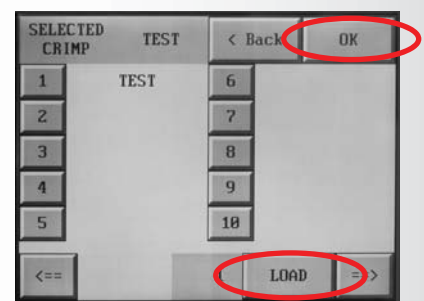
HOW TO ADD A SAVED CRIMP

- Adjust the die diameter and crimp diameter as required and place the crimper in **MANUAL** mode.
- Press **SAVE**.
- Select a location (1-100) and press **EDIT**.
- Enter a description (up to 12 characters).
- Press **SAVE** and **EXIT**.
- The die and crimp setting can now be recalled from the saved location as required.



TO RECALL SAVED CRIMP

- Select **USE SAVED CRIMP** from the option screen.
- Select a previously saved crimp from location 1-100.
- Press **LOAD**.
- Press **OK**.
- The saved crimp will appear on the manual screen.





AccuCrimp ACT™ CONTROL PANEL QUICK START

FULL AUTO MODE

With the crimper in **FULL AUTO** mode additional functions are available:

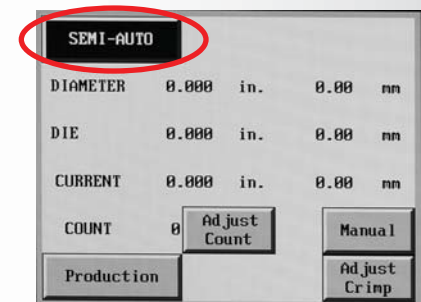
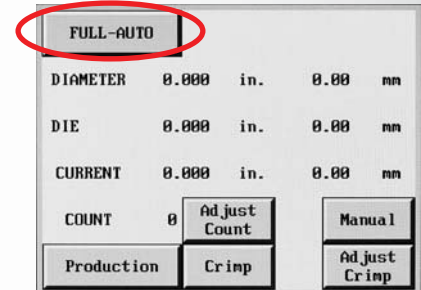
- The crimper will cycle automatically from the **CRIMP** button on the touch screen, the green **CYCLE START** button on the panel, or the foot switch.
- To set the position to which the dies will retract, close the crimper to the desired retract position prior to pressing the **FULL AUTO** button.
- Pressing the **FULL AUTO** button will toggle the crimper into **SEMI-AUTO** mode. In **SEMI-AUTO** mode, pressing the **FOOT SWITCH** or the **CLOSE** button will close the crimper head and releasing it will cause the head to stop closing. This mode allows the crimper to be jogged into position allowing more precise positioning of a fitting in the dies. Pressing the **SEMI AUTO** button will toggle the crimper back to **FULL AUTO** mode

In **FULL AUTO** mode pressing the foot switch will start the crimp cycle and the dies will stop closing when the crimp cycle is complete.

- The **COUNT** function is activated allowing the operator to monitor the number of crimps made.
- A measurement can be required after a preset number of crimps. See [SET REQUIRED MEASUREMENT](#)

SET REQUIRED MEASUREMENT

- Press the **PRODUCTION** button.
- Determine if 1 or 2 crimps will count as a crimp
- Toggle the **CRIMP ADJUSTMENT REMINDER** to **ON**.
- Set the **COUNTS BETWEEN CRIMP MEASUREMENTS** to the desired number and press **OK**.
- At the set interval, the **ADJUST CRIMP** screen will come up and the operator will be asked to measure the last crimp and enter a correction if required.



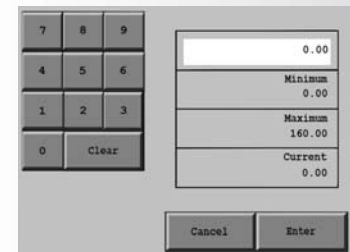
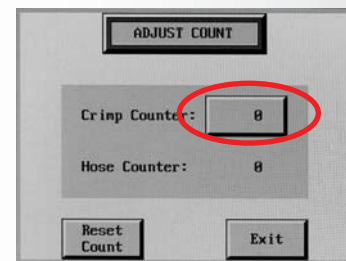
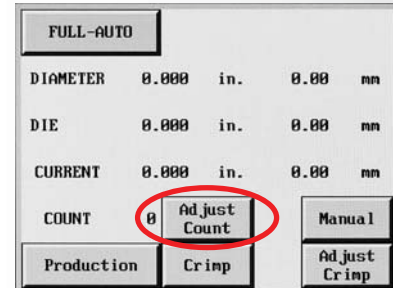


AccuCrimp ACT™ CONTROL PANEL QUICK START

ADJUST CRIMP COUNT

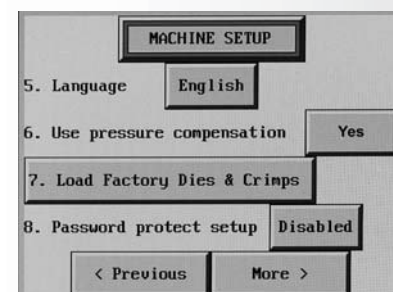
If a production operation is interrupted for some reason, it is possible to reset the counter to where the operation was at the point of interruption.

- Press the Adjust Count button from the auto crimp screen.
- Press the Crimp Counter and reset the count to the desired point.



ACT™ ADDITIONAL FEATURES

- Additional features and functions of the ACT™ controller can be accessed by pressing the **MORE** button on the **MACHINE SET UP** screen.
- When “Allow Crimp to Diameter” is set to “**YES**”, all of the adjustment functions of the crimper are available. When “Allow Crimp to Diameter” is set to “**NO**” only the settings entered as a saved crimp can be used.
- English or Spanish language options are available.
- The “Use Pressure Compensation” is set to “**YES**” for all crimpers equipped with a pressure transducer. A security code is required to turn this function on or off.





AccuCrimp ACT™ CONTROL PANEL QUICK START

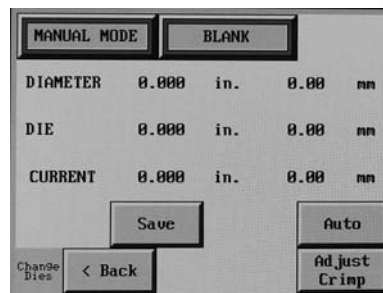
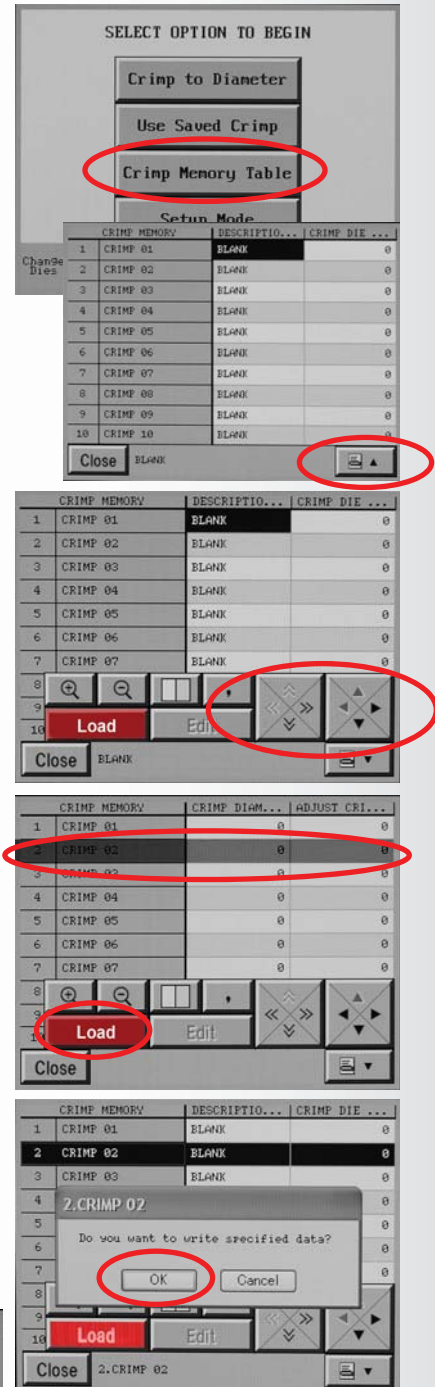
ACT™ ADDITIONAL FEATURES

Pre-Loaded Crimp Specifications

In addition to the ability to store up to 50 user entered dies and 150 user entered crimp settings, the ACT™ Controller has the capability of accepting pre loaded manufacturer's crimp specifications.

CustomCrimp® does not maintain these specifications as they are proprietary to the individual hose and fitting manufacturer. If, however, your ACT™ Controller was pre loaded with a manufacturer's crimp specifications or if they are available to you, they are accessed in the following manner:

- Press the Crimp Memory Table Button.
- Press the access button to bring up the stored crimp specifications.
- Scroll through the crimp specifications to select the correct one. The right hand rocker button moves through the crimp specs one line at a time and the left hand rocker button moves one screen at a time.
- When the correct crimp specification is selected, press the highlighted selection and then the Load button and select OK to write the data to the ACT™ Controller.
- This will bring up the familiar crimp screen and the crimper can then be operated in the normal manner.



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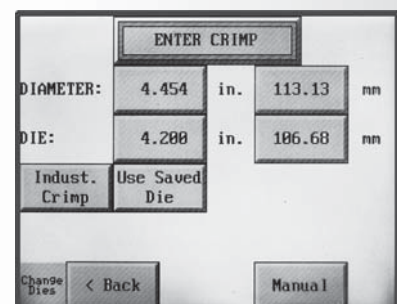
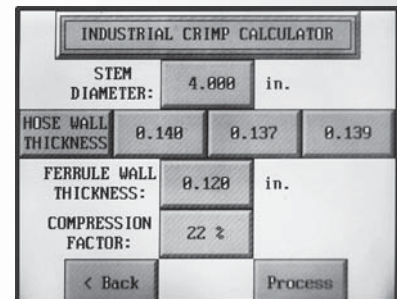
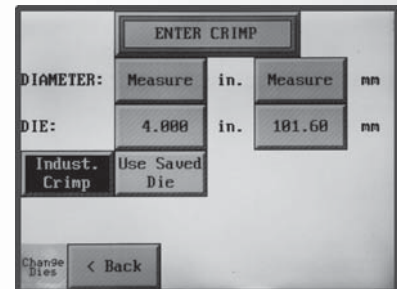
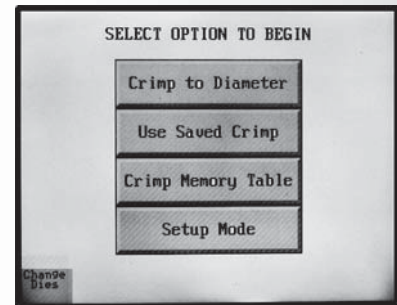
INDUSTRIAL CRIMP CALCULATOR

The Industrial Hose Crimp Calculator is part of the ACT™ controller package on many Custom Crimp® crimpers capable of crimping industrial hoses. With a few simple measurements, it takes the guess work out of industrial hose crimping and eliminates the need for charts and graphs.

Note: Not all ACT™ controllers have the Industrial Crimp Calculator software. Contact your sales specialist for information on a specific crimper.



- Press the **CRIMP TO DIAMETER** button.
- Press the **INDUSTRIAL CRIMP** Button.
- Press **MEASURE**.
 - If the hose diameter is known or a pi tape is being used, enter the hose O.D.
 - If hose O.D. is not known, press **MEASURE** for wall thickness options.
- Measure the wall thickness of the hose. Press the right arrow and take 2 more measurements of the hose wall thickness.
- The Industrial Crimp Calculator will average the three measurements.
- Enter the stem diameter of the fitting. For example: If the stem diameter is 4 inches, you would enter 4000 and the ACT™ controller would supply the decimal place.
- Measure and enter the wall thickness of the ferrule.
- Next enter a compression factor. While this can vary depending upon the specific hose and manufacturer, the following guidelines are a starting point:
 - Standard Industrial hose (approximately 1/4 inch wall thickness): 22%
 - Standard lay flat hose: 11%
- *Note: Contact your hose and fitting manufacturer for the compression factor to use on a specific hose and ferrule,*
- Press **PROCESS** and enter the die diameter if you have not already done so.
- Select and install the correct die set for the combination of hose and fitting being crimped.
- Press **MANUAL** and proceed to crimp the hose.





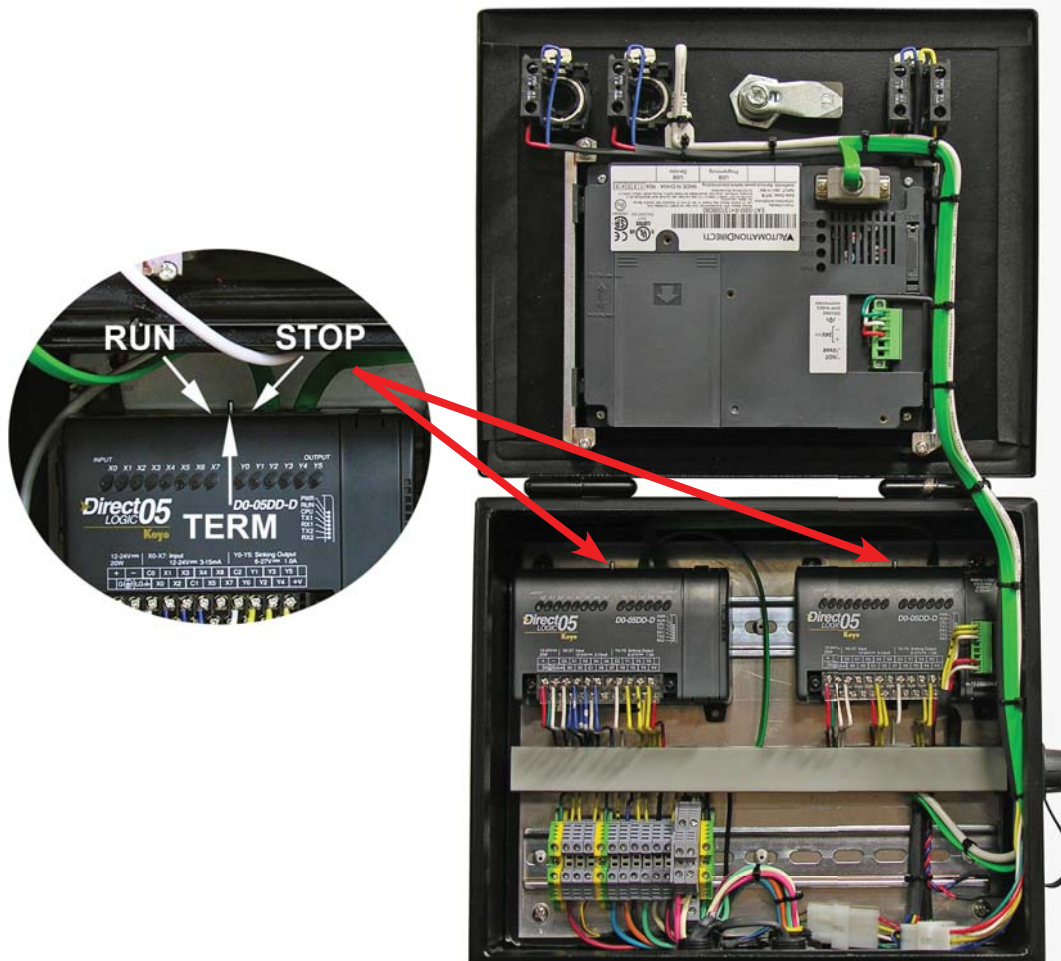
PLC RESET PROCEDURE

PLC RESET PROCEDURE:

The PLC (Programmable Logic Controller) requires a relatively constant source of electrical power. Power surges, outages or drops in power can cause the PLC to lose its settings. This may result in missing or misplaced information on the controller screen.

RESETTING THE PLC TO ITS ORIGINAL SETTINGS IS A SIMPLE PROCEDURE:

- Open the front of the Control Panel.
- Power up the crimper from the main power switch. The crimper must be powered on during the PLC reset procedure.
- Move the three position toggle switch on top of the PLC right to the STOP position and then left to the RUN position.
- Return the toggle switch to the center TERM position.
- Repeat for the other PLC Unit.
- Cycle the main power off and back on.
- The PLC and the crimper should now operate normally.
- Close the control panel.





TROUBLESHOOTING

PROBLEM: CRIMPER WILL NOT RUN AT ALL

- Check the E-Stop switch to be certain that it is not depressed. A slight twist is required to release switch after it has been depressed.
- PLC (Programmable Logic Control) must be reset. See instructions on the previous page.

PROBLEM: CRIMPER RUNS BUT IS SLOW OR NON-FUNCTIONAL

- Check supply voltage to see that it matches the voltage specified on the tag attached to the crimper. Many performance problems are the result of low voltage or inadequate electrical service.
- Check motor rotation and be certain that the motor rotates in the direction of the arrow on the motor housing. For three phase units rotation can be reversed by switching any two wires in the plug.

PROBLEM: CRIMPER WILL CLOSE ON FITTING BUT DOES NOT DEVELOP POWER TO COMPLETE THE CRIMP

- Check oil level. Position dies to the fully open position and check oil sight gage in rear of machine. Be sure the oil level is in the middle of the sight glass. Use ISO 32 or 46 weight hydraulic oil.

PROBLEM: CRIMPER WILL NOT OPEN TO RETRACT POSITION IN AUTO MODE

- Retract position must be at least 3 mm larger than the final crimp diameter.

If problem (s) persist contact Customer Service for additional troubleshooting assistance.

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CC440 REPLACEMENT ACCESSORIES



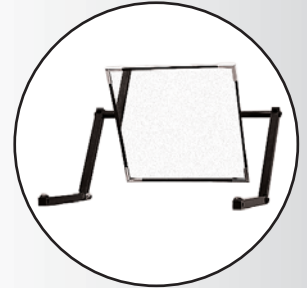
6" Touch Screen Panel
P/N:102600-ACT



CC-Foot Switch
P/N:CC-FOOTSWITCH



99mm Quick Change Tool
P/N:102571



CC-Mirror
P/N:103471



Manual Back Stop
P/N:MBS-60



Electronic Back Stop
P/N:EBS-60



Industrial Die Shelf
P/N:103572



Industrial Hose O.D Tape
(Pi Tape) P/N:103901



Mini Grease Gun w/ CRIMPX Die
Lubricant 3 oz mini grease tube
P/N:103889



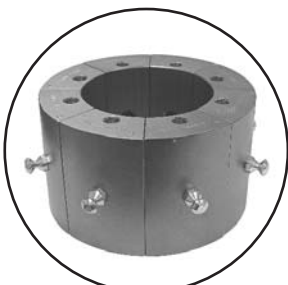
CRIMPX Die Lubricant 3 oz mini
grease tube P/N:103887



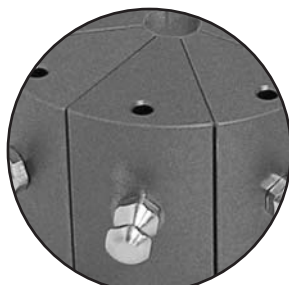
CRIMPX Die Lubricant 14 oz
large grease tube P/N:103888



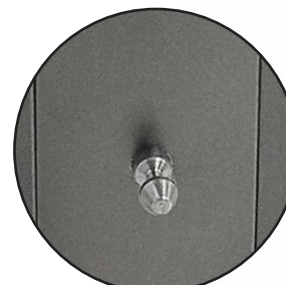
CustomCrimp® Notched Digital
Caliper IN/MM P/N:CC-Caliper



Adapter Die Set 160mm OD to
99mm ID P/N: 104618



Die Lock Pin For 84S/99S Die
Series P/N:101582

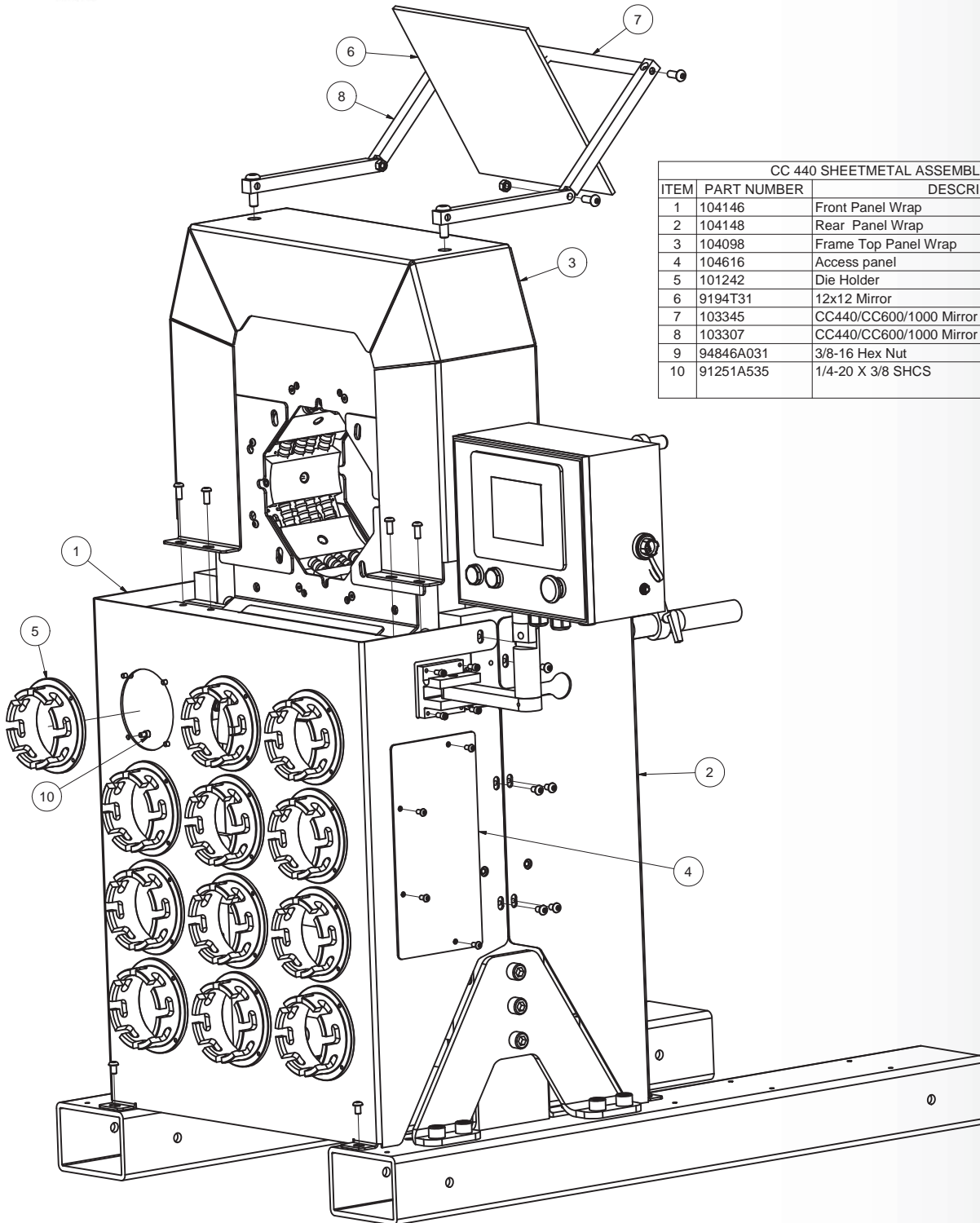


Die Lock Pin For 130S/145S
Die Series P/N:101403

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COMPONENT PARTS BREAKDOWN

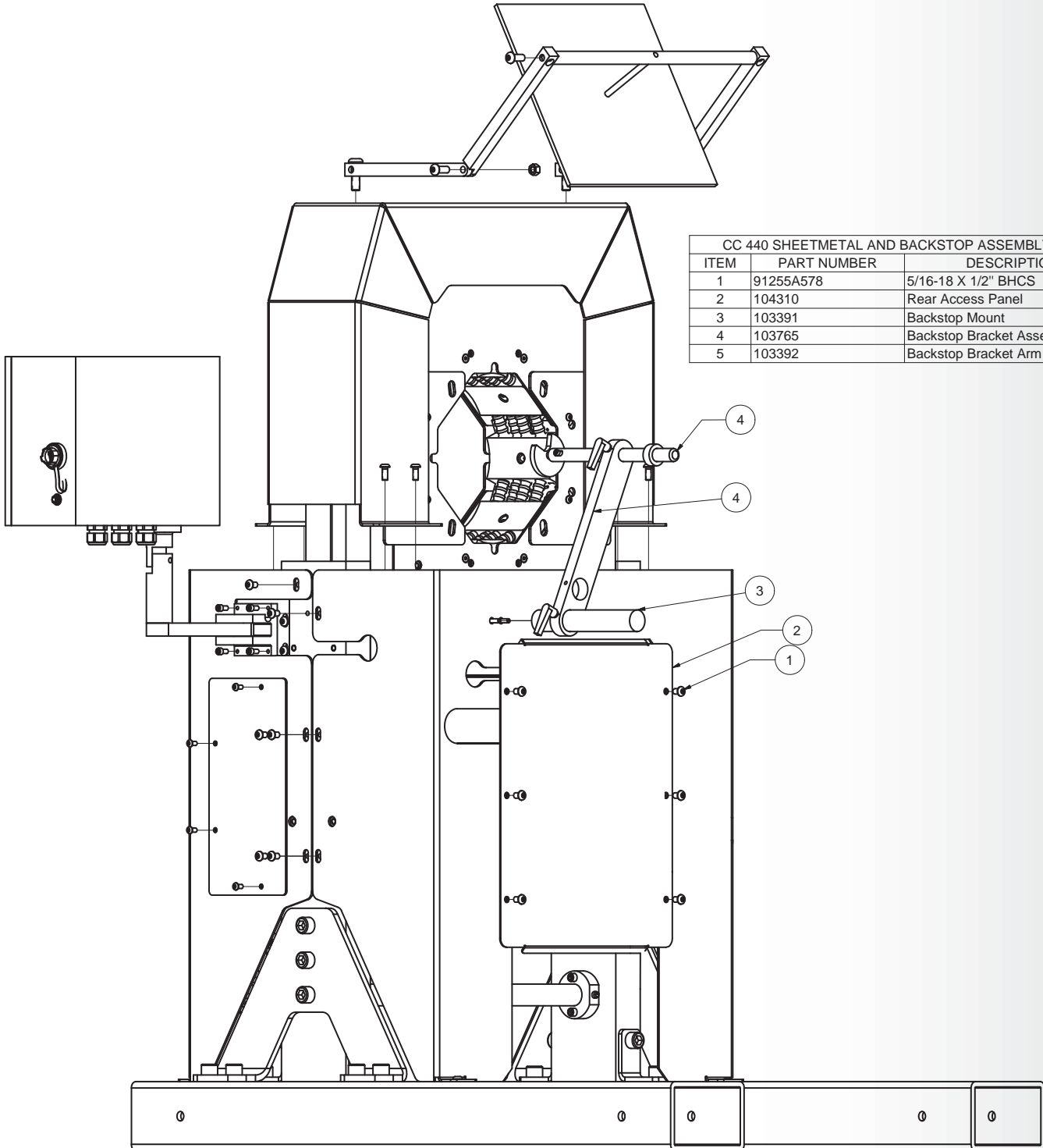


CC 440 SHEETMETAL ASSEMBLY (104659-1)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	104146	Front Panel Wrap	1
2	104148	Rear Panel Wrap	1
3	104098	Frame Top Panel Wrap	1
4	104616	Access panel	1
5	101242	Die Holder	12
6	9194T31	12x12 Mirror	1
7	103345	CC440/CC600/1000 Mirror Attachment Bracket	1
8	103307	CC440/CC600/1000 Mirror Bracket Support Arms	4
9	94846A031	3/8-16 Hex Nut	2
10	91251A535	1/4-20 X 3/8 SHCS	48

CC440 Production / Industrial Hose Crimper



COMPONENT PARTS BREAKDOWN

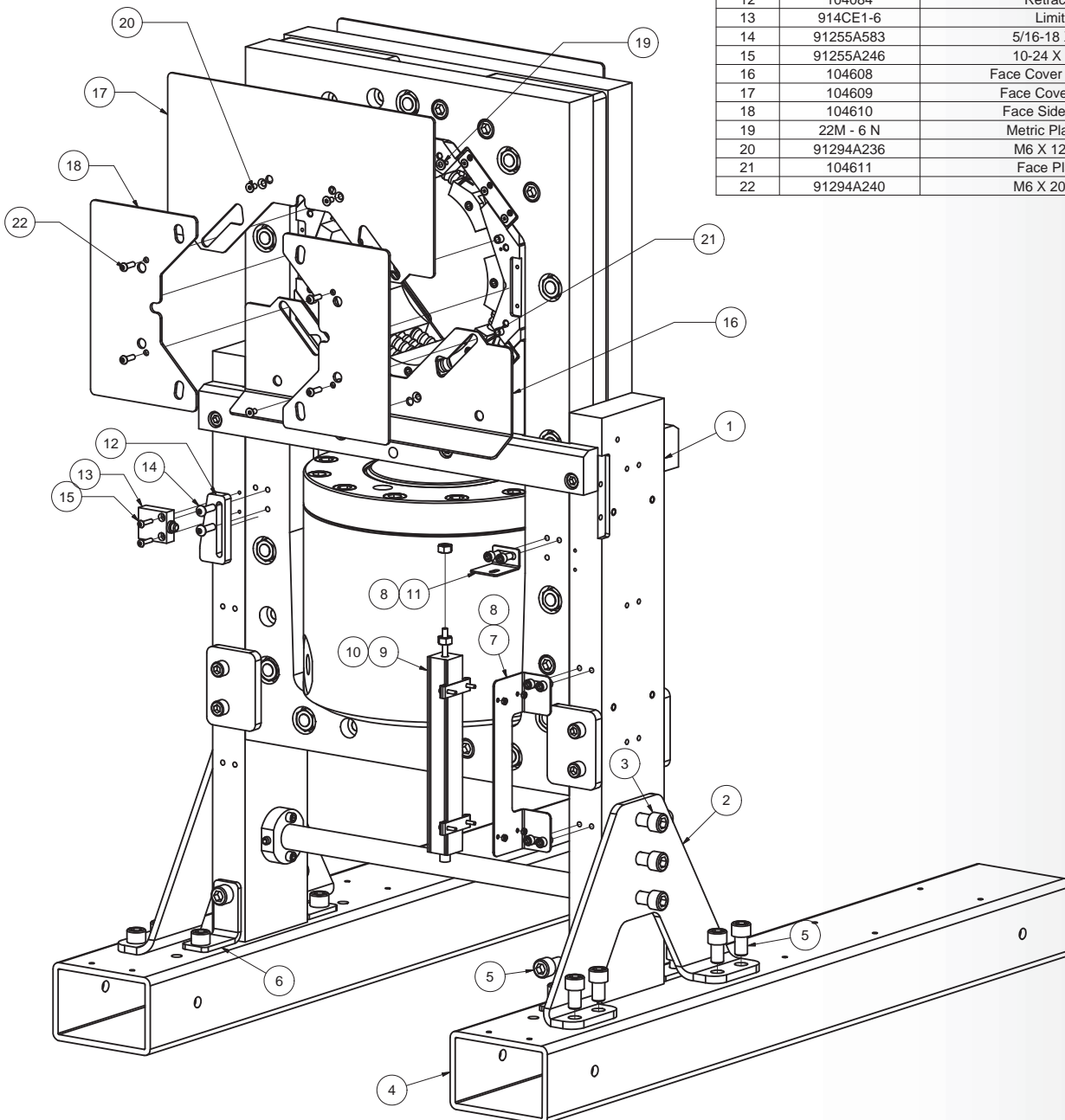


CC 440 SHEETMETAL AND BACKSTOP ASSEMBLY (104659-2)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	91255A578	5/16-18 X 1/2" BHCS	24
2	104310	Rear Access Panel	1
3	103391	Backstop Mount	1
4	103765	Backstop Bracket Assembly	1
5	103392	Backstop Bracket Arm	1



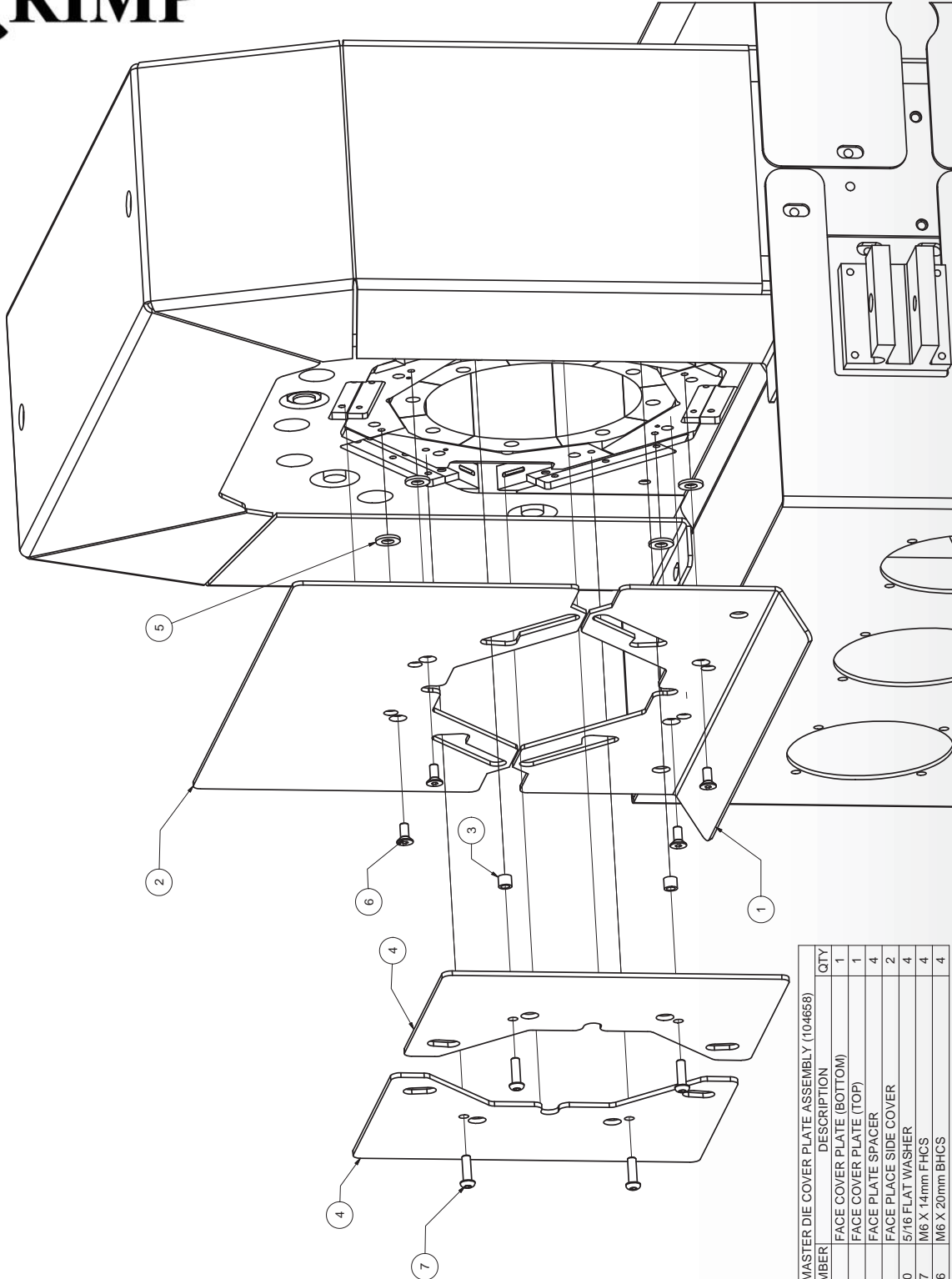
COMPONENT PARTS BREAKDOWN

CC440 FRAME/LEG/POTENTIOMETER ASSEMBLY (104083-MAN)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	104082	Frame/Master Die Assy	1
2	104173	Leg Brace	2
3	91251A798	5/8-11 X 1.50 SHCS	6
4	104094	Base Leg	2
5	91251A794	5/8-11 X 1.00 SHCS	16
6	104227	Leg Mounting Bracket	4
7	104267	Transducer Mtg Bracket	1
8	91251A580	5/16-18 X 5/8 SHCS	6
9	103472	150MM Transducer	1
10	90576A103	M4x0.7 Nyloc Hex Nut	4
11	104268	Transducer Rod Bracket	1
12	104084	Retraction Stop	1
13	914CE1-6	Limit Switch	1
14	91255A583	5/16-18 X 1" BHCS	2
15	91255A246	10-24 X 7/8" BHCS	2
16	104608	Face Cover Plate (Bottom)	2
17	104609	Face Cover Plate (Top)	2
18	104610	Face Side Plate Cover	4
19	22M - 6 N	Metric Plain Washers	8
20	91294A236	M6 X 12mm FHCS	8
21	104611	Face Plate Spacer	8
22	91294A240	M6 X 20mm BHCS	8





COMPONENT PARTS BREAKDOWN

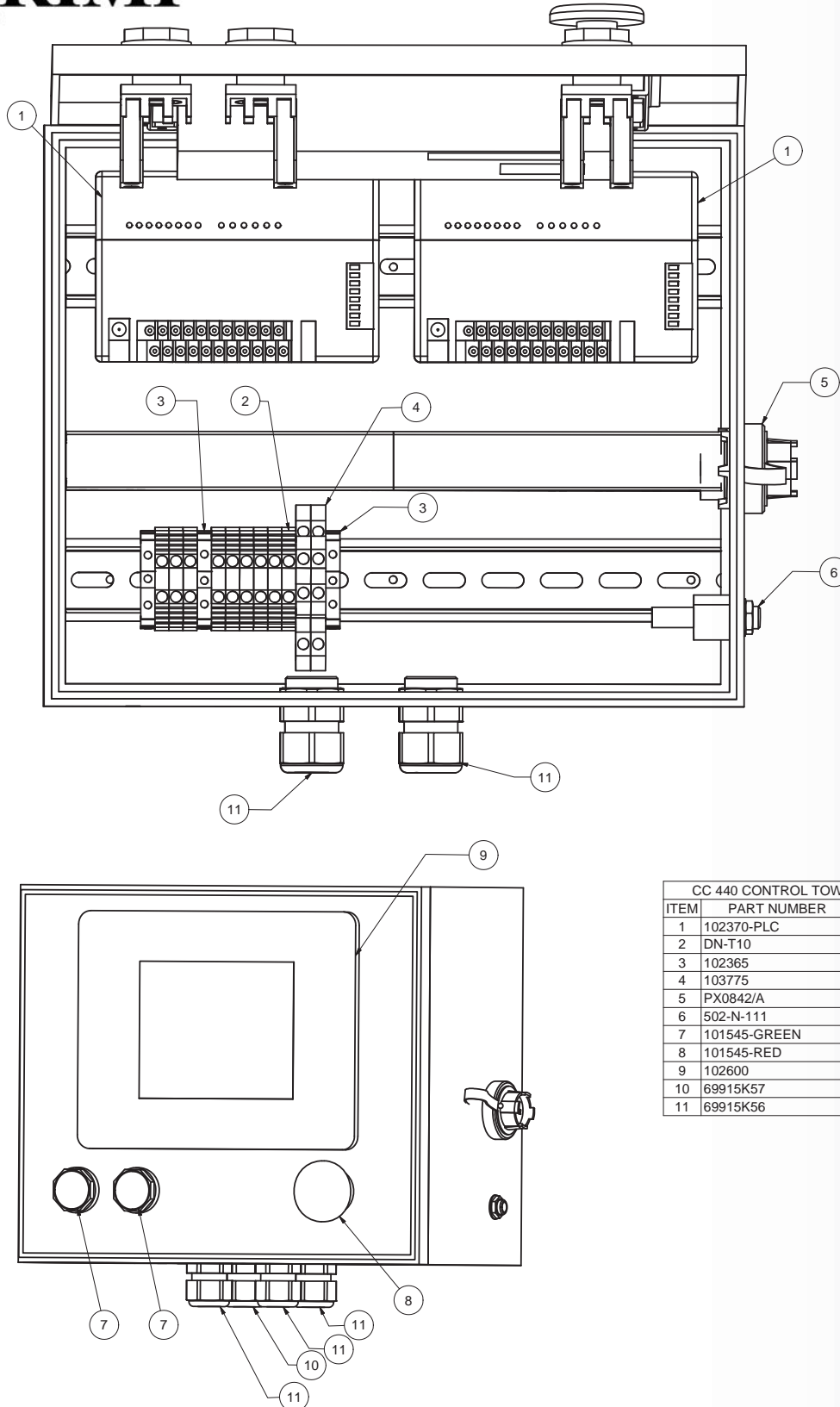


ITEM PART NUMBER	DESCRIPTION	QTY
1	FACE COVER PLATE (BOTTOM)	1
2	FACE COVER PLATE (TOP)	1
3	FACE PLATE SPACER	4
4	FACE PLATE SIDE COVER	2
5	5/16 FLAT WASHER	4
6	M6 X 14mm FHCS	4
7	M6 X 20mm BHCS	4

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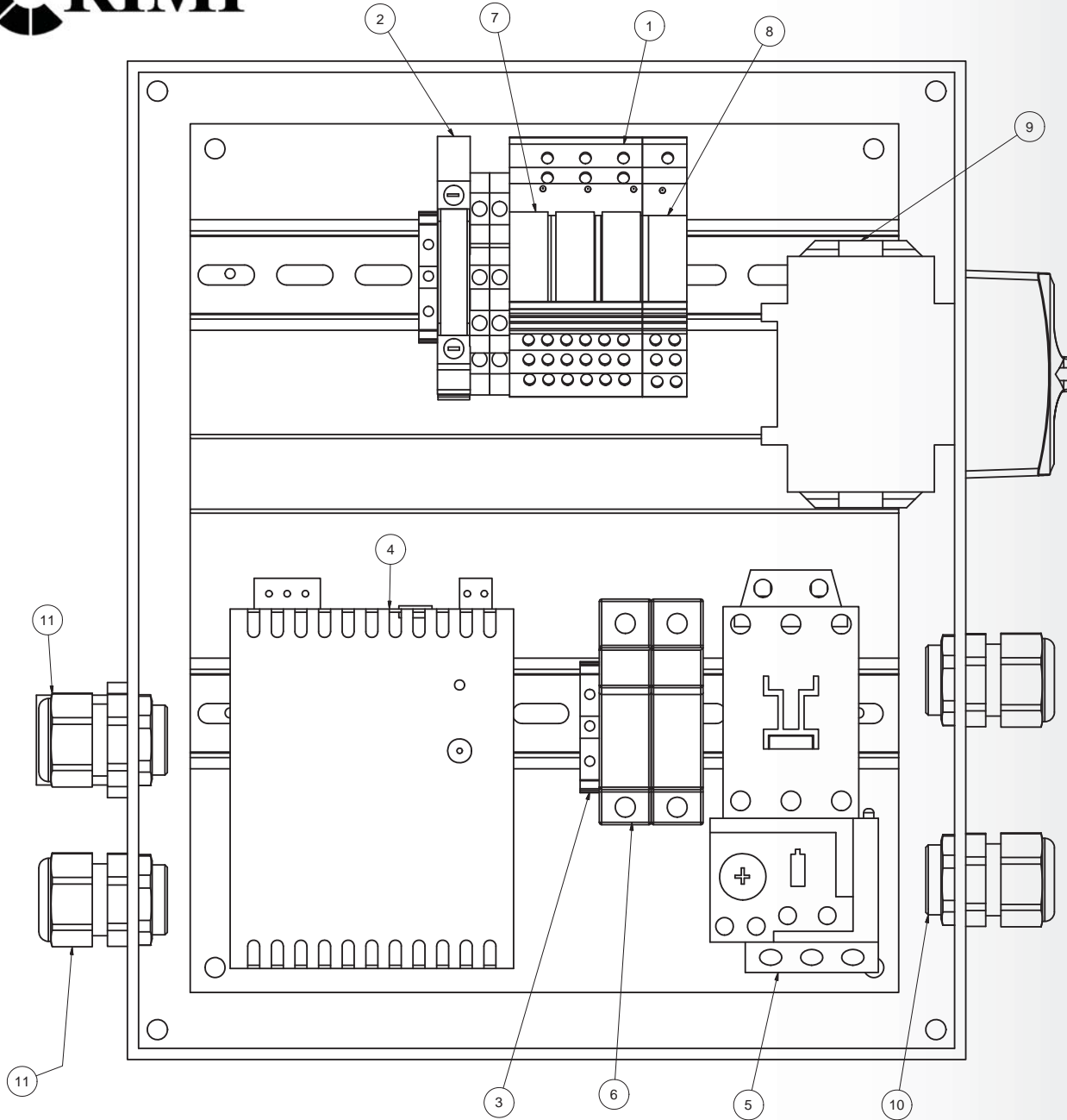
COMPONENT PARTS BREAKDOWN



CC 440 CONTROL TOWER ASSEMBLY (103761-CC440)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	102370-PLC	PLC	2
2	DN-T10	Terminal Block	9
3	102365	Ground Block	3
4	103775	Terminal Block	2
5	PX0842/A	USB Connector	1
6	502-N-111	Foot Pedal Jack W/Nut	1
7	101545-GREEN	Button	2
8	101545-RED	E-Stop	1
9	102600	6" Touch Screen Text Panel	1
10	69915K57	Cord Grip	1
11	69915K56	3/4 NPT Cord Grip	3



COMPONENT PARTS BREAKDOWN



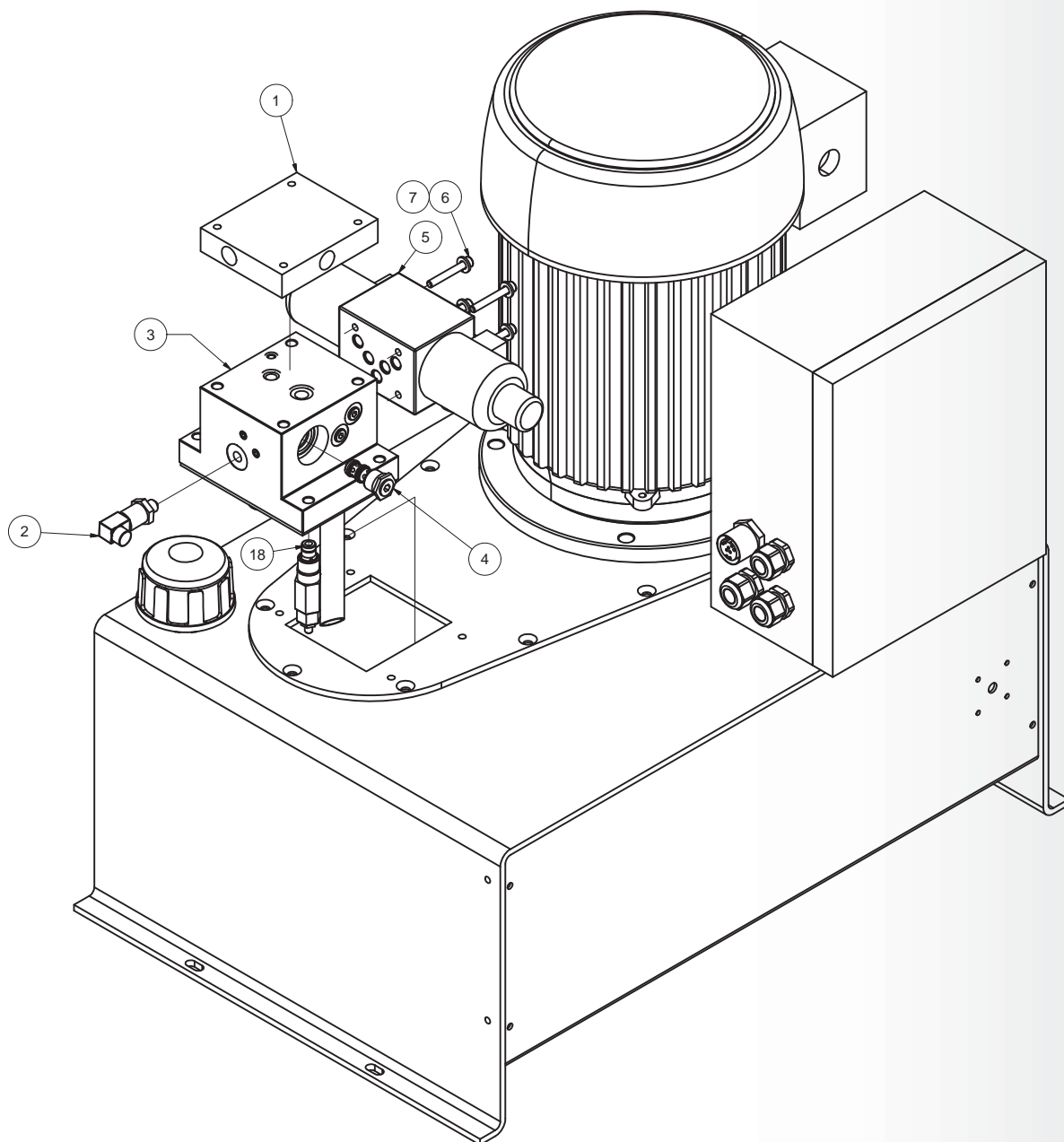
CC 440 ELECTRICAL BOX ASSEMBLY (103759-CC440)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	102368	Relay Block	1
2	102367	Fuse Block	1
3	102365	Ground Block	2
4	102371	Power Supply	1
5	102369	Contactors with Overload Protector	1
6	CHMD2	MIDGET 5 AMP FUSE HOLDER	2
7	103782	Relay	3
8	102368-White Motor Block	Relay	1
9	103050	50 Amp Disconnect Switch	1
10	69915K56	3/4 NPT Cord Grip	2
11	69915K57	Cord Grip	3

CC440 Production / Industrial Hose Crimper



COMPONENT PARTS BREAKDOWN

CC 440 POWER UNIT (104261)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	104483	CC440 Manifold Intermediate Block
2	1	103723	Pressure Transducer
3	1	102523	CC-60/CC-450 Manifold Block
4	1	102525	Single Pilot Check Valve
5	1	102826	D05 Directional Valve
6	4	91251A548	1/4-20 X 1 3/4" SHCS
7	4	98023A030	5/16 FLAT WASHER





CUSTOMCRIMP® “NO-NONSENSE” WARRANTY STATEMENT



CustomCrimp® “No-Nonsense” Warranty Statement

All CustomCrimp® Products are warranted to be free of defects in workmanship and materials for one year from the date of installation. This warranty ends when the product becomes unusable for reasons other than defects in workmanship or material.

Any CustomCrimp® Product proven to be defective in workmanship or material will be repaired or replaced at no charge. To obtain benefits of this warranty, first, contact Warranty Repair Department at Custom Machining Services at **(219) 462-6128** and then deliver via prepaid transportation the complete hydraulic product to:

**ATTN: WARRANTY REPAIR DEPT.
Custom Machining Services, Inc.
318 North Co. Rd 400 East
Valparaiso IN 46383**

If any product or part manufactured by CustomCrimp® is found to be defective by CustomCrimp®, at its option, CustomCrimp® will either repair or replace the defective part or product and return via ground transportation, freight prepaid.

CustomCrimp® will not cover any incoming or outgoing freight charges for machines sold outside The United States.

This warranty does not cover any product or part which is worn out, abused, altered, used for a purpose other than for which it was intended, or used in a manner which was inconsistent with any instructions regarding its use.

Electric motors are separately warranted by their manufacturer under the conditions stated in their separate warranty.

CC440 Production / Industrial Hose Crimper



CONTACT US

CUSTOMCRIMP®, YOUR SINGLE SOURCE FOR HOSE ASSEMBLY PRODUCTS.

Products and services to support industry wide hose assembly needs.

CustomCrimp®
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326 N. County Rd. 400 East
Valparaiso, IN 46383
Ph: (219) 462-6128
Fax: (219) 464-2773
www.customcrimp.com



CustomCrimp®

See the complete line of CustomCrimp® Crimpers and Accessories at:

www.customcrimp.com

(219) 462-6128