

CC650 Production / Industrial Hose Crimper



The CC650 Series hose crimper with the Patented ACT™ Controller and 350 tons of crimping force has the capability to crimp hoses from ¼" up to 6" 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 6" 150 lbs SAE flange.



CC650 CRIMPER OPERATORS MANUAL WITH ACT™ CONTROLLER



SAFETY PRECAUTIONS



SAFETY PRECAUTIONS



- READ INSTRUCTIONS AND IDENTIFY ALL COMPONENT PARTS BEFORE USING CRIMPER.
- CRIMPER CC650 CAN PRODUCE 350 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.



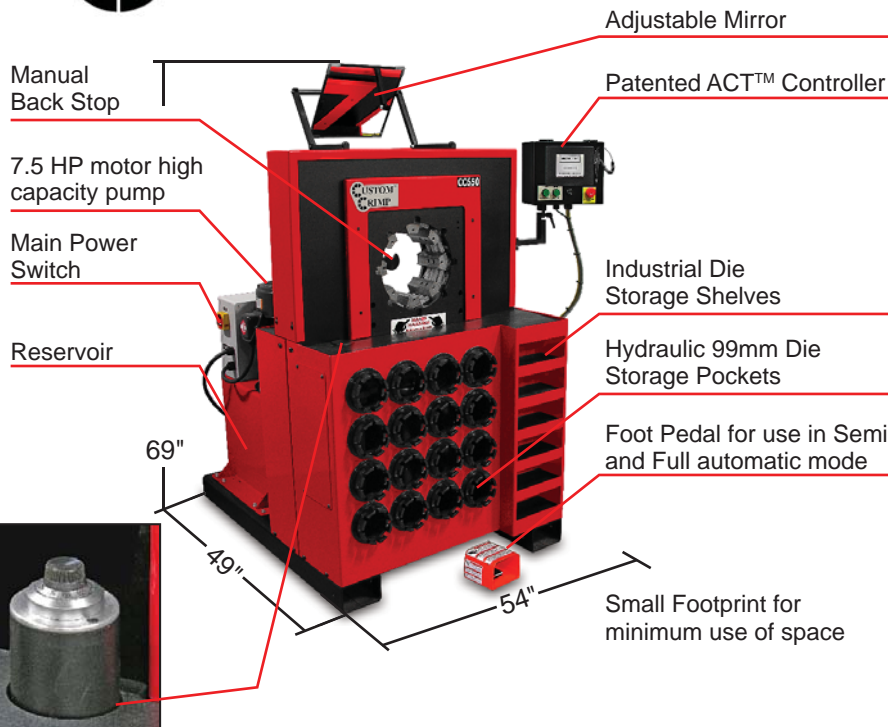
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CC650 Production / Industrial Hose Crimper



COMPONENT PARTS & TECHNICAL DATA



Available Manual Dial Adjustment Micrometer

Technical Data CC650 / CC650MIC	
Capacity	350 Ton
*6SP	3"
*Max Industrial	6"
L: W: H	49" x 54" x 69"
Weight	4,000 lbs
CC650 Power	7.5HP/230V/3Phase (Standard) 7.5HP/440V-480V/3Phase (Optional) 5HP/230V/1Phase (Optional)
CC650 Adjustability	Inch / Metric
CC650MIC Power	5HP/230V/3Phase (Standard) 5HP/440V-480V/3Phase (Optional) 5HP/230V/1Phase (Optional)
CC650MIC Adjustability	Metric
Die series	99S / 160S / 160OB
Opening w/o dies	286mm / 11.25"
Master die inside diameter	160mm / 6.29"
Master die travel	128mm / 5"
Reservoir capacity	24 US Gallons
Oil type	ISO 46 Hydraulic Oil

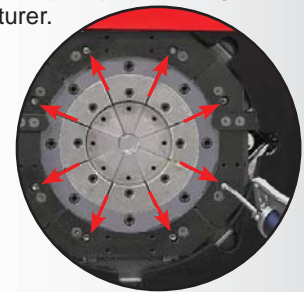
*Crimper capacity is estimated based on typical 1-piece fitting. Actual results may vary depending on the hose and fitting manufacturer.



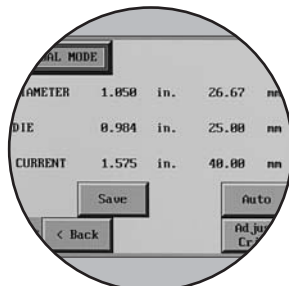
Max Head Opening W/O Dies: Can accommodate 6" 150 lbs SAE flange.



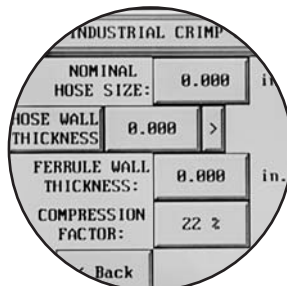
Patented ACT™ Controller: Offers 4 language settings to choose from English, Espanol, Deutsch and Francais.



Easy Maintenance: Through the 12 lubrication fittings.



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.



Manual Back Stop: Makes hydraulic hose production crimping fast and accurate.

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INITIAL SET UP

- Check the oil level in the sight glass gauge on the front of the reservoir.
- 24 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 rear bottom of the reservoir.

An additional oil cooler, while not normally required, can be plumbed into the two ports at the rear bottom of the reservoir.

- Check electrical circuit to be certain that it matches to the crimper requirements as shown on the voltage decal on the electrical enclosure.

Electrical Requirements:

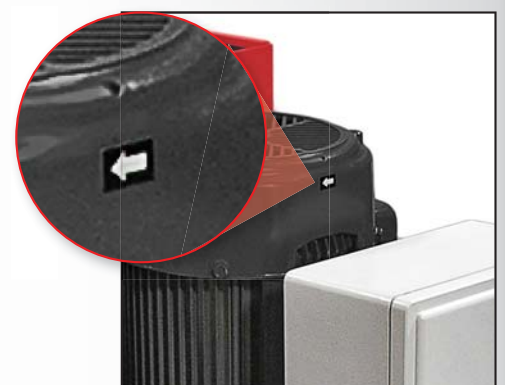
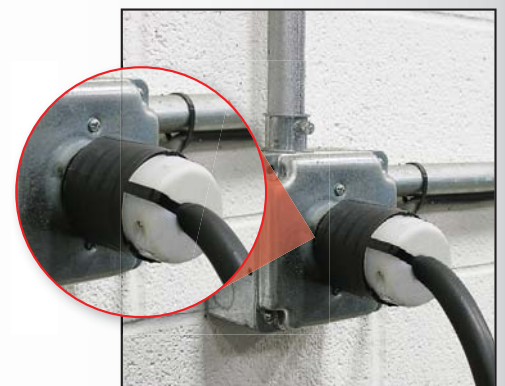
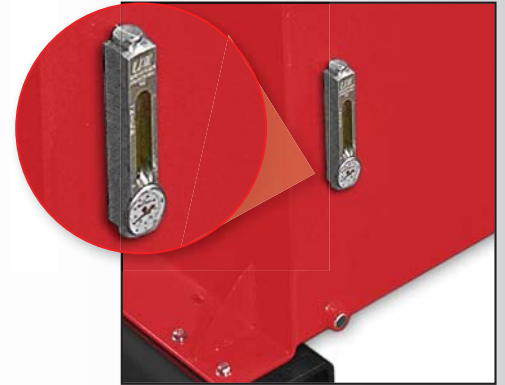
- 7.5HP/230V/3Phase (20 Amp)
- 7.5HP/440V-480V/3Phase (20 Amp)
- 5HP/230V/1Phase (30 Amp)

- 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. (**Note: This is applicable to 3 phase circuits only**)

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





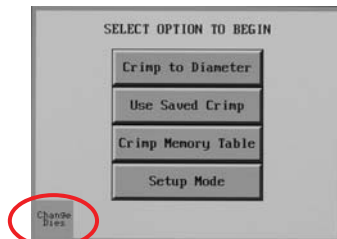
ADAPTER DIE INSTALLATION

ADAPTER DIE INSTALLATION:

Note: 160 mm to 99 mm Adapter Dies are furnished 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

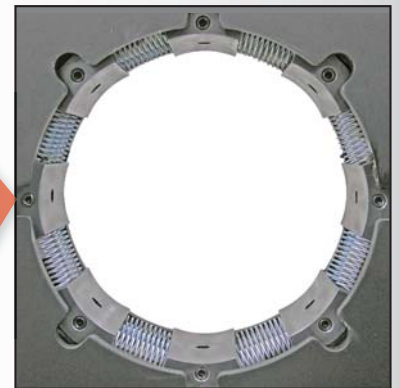


Photo #2

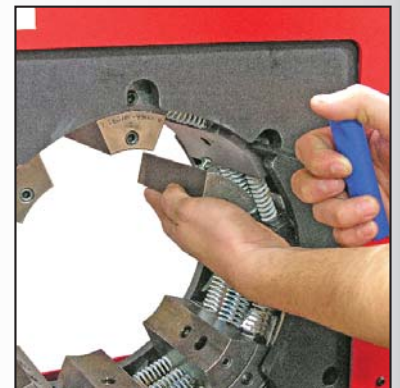


Photo #3



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.

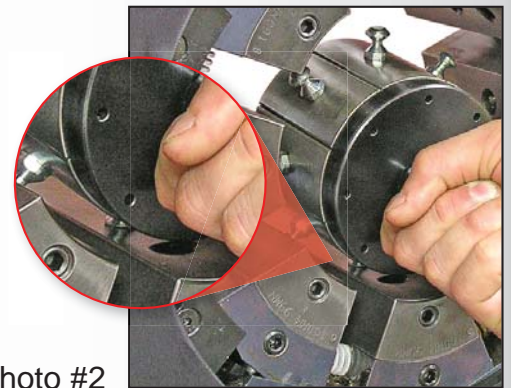
Note: Tap the START button then CHANGE DIES button in the lower left corner of the screen; it will start to flash. This button allows you to “jog” the crimper head in and out during die installation using the green CLOSE and OPEN button below the screen on the front of the ACT™ Controller.



Photo #1



Photo #2

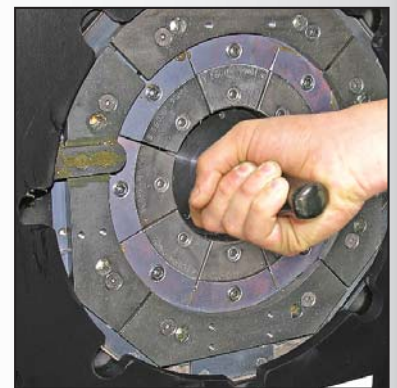


- Bring the crimper head to fully opened position and install the Hydraulic Dies with the quick change tool (as shown in photo #1).

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).

Photo #3



- 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 #4



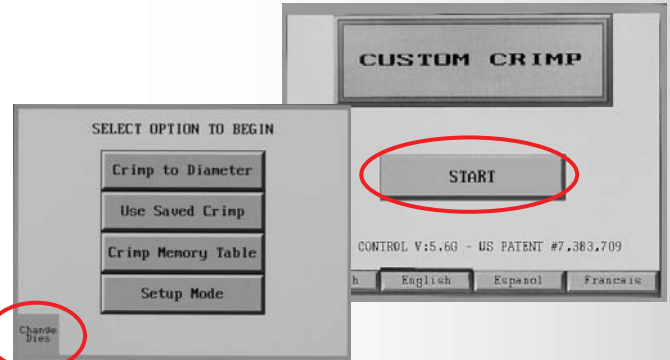
CC650 Production / Industrial Hose Crimper

CUSTOM[®] CRIMP

LUBRICATION PROCEDURE



Note: This specific style of grease gun flush fitting adapter must be used to lubricate the CC650 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 lubricate the crimper can cause premature failure, loss of accuracy and may result in costly repairs to the crimper.

- Lubricate the crimping head after each 100 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 closed position, and lubricate the master dies through the 8 lubrication fittings in the protective plates (as shown in photo #1).

- With the dies still in the fully closed position, lubricate the (2) lubrication fittings visible through the two top lubrication fittings in the face of the crimper (as shown in the photo #2).

- Bring the master dies to the fully open position, lubricate the crimper through the lubrication fittings visible through the two bottom lubrication fittings in the face of the crimper (as shown in the photo #3).

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.

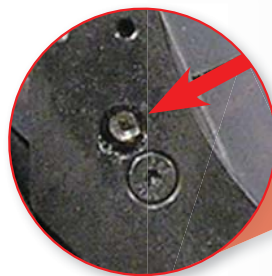


Photo #1

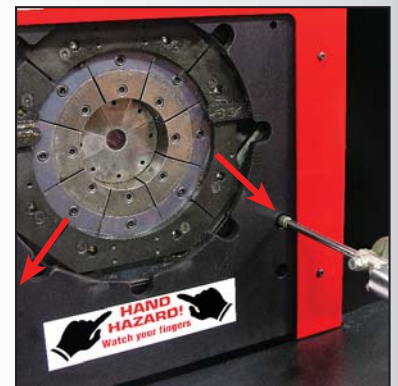
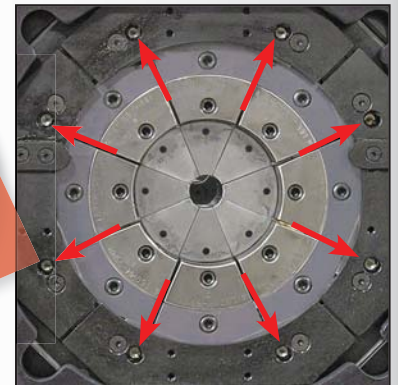


Photo #2

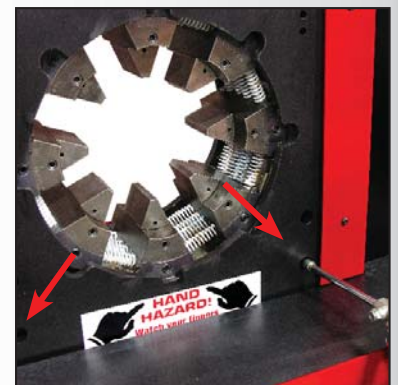
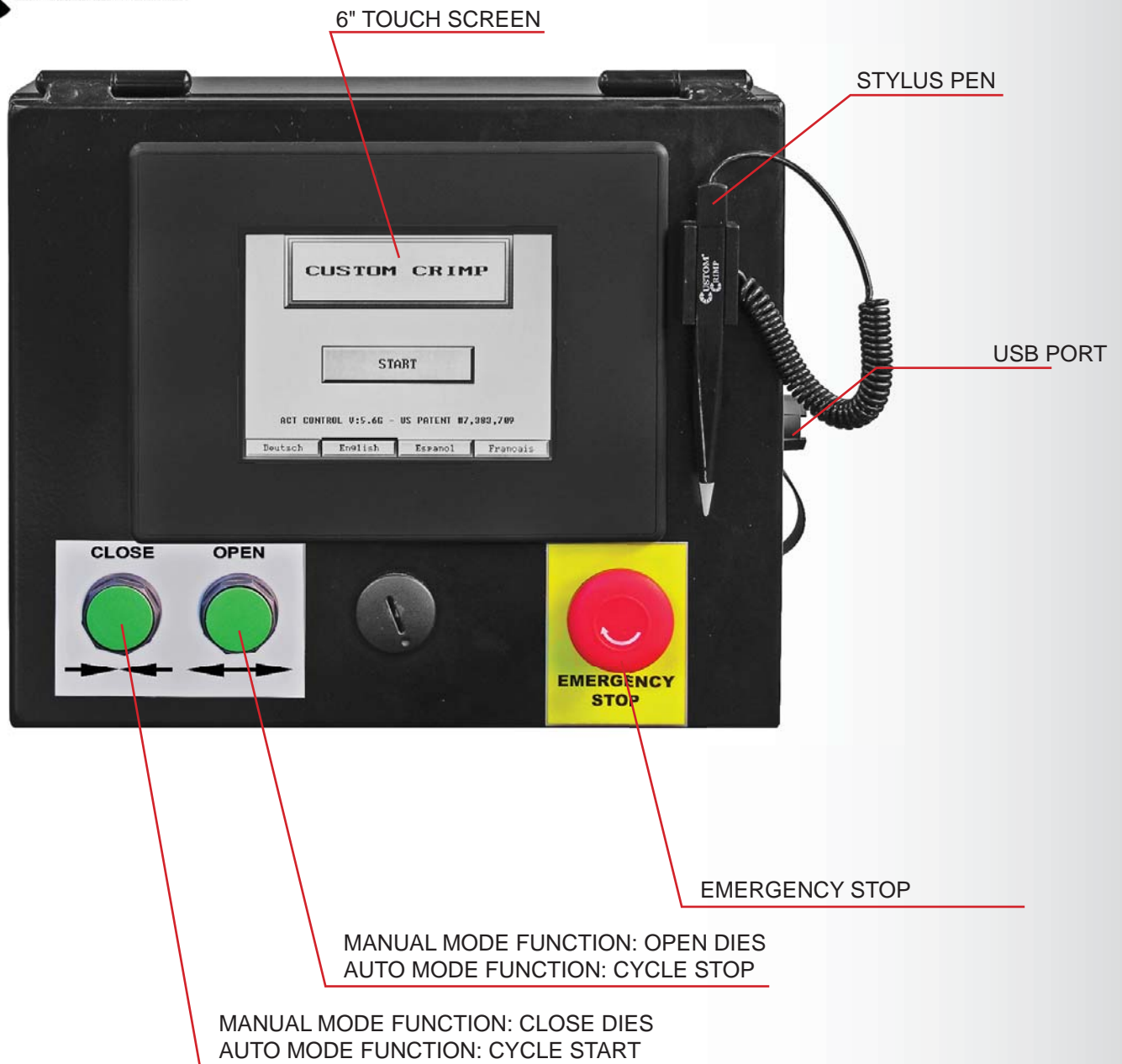


Photo #3

CC650 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.

CC650 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:

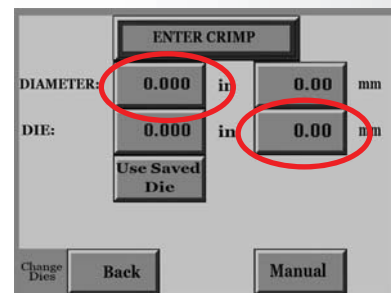
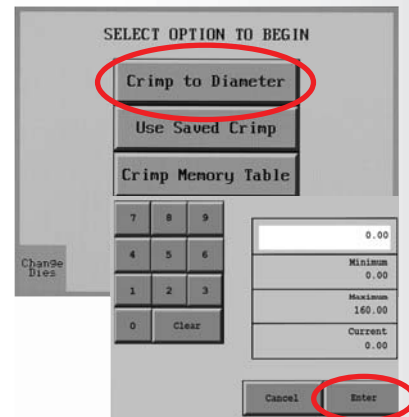
- Press **START** Button.
- Select **CRIMP TO DIAMETER**.
- Enter the closed diameter of the die set in either in or mm and press **ENTER**. *Note: for a 25mm die, enter 2500. ACT™ will add the decimal point.*

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.*

Note: When using the overbore (OB) dies you must use the **SAVED DIE** feature. Press the **USE SAVED DIE** to select the correct die set from the die memory table.





AccuCrimp ACT™ CONTROL PANEL QUICK START

HOW TO MAKE MINOR CORRECTIONS

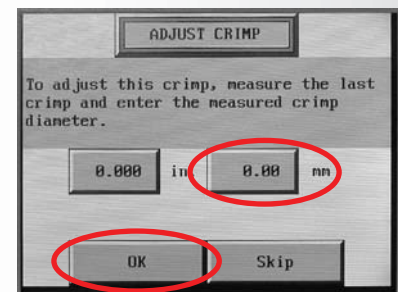
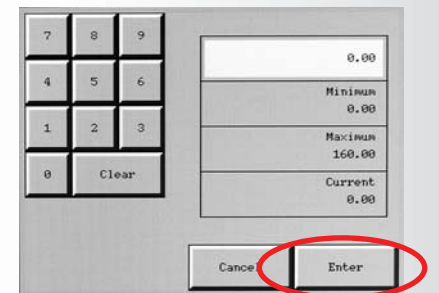
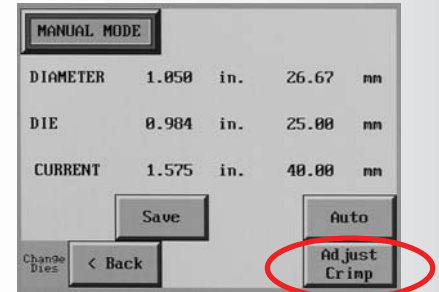
• Due to variations in hose and fitting tolerances a minor crimp adjustment may be required if the measured diameter of the final crimp is not within the hose and fitting manufacturer's specifications. ACT™ technology makes minor corrections a simple process which requires no addition or subtraction.

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:

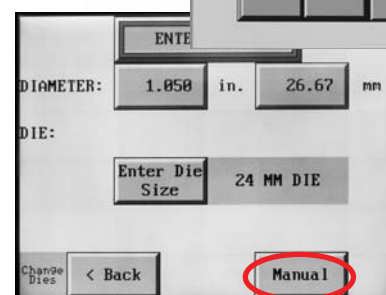
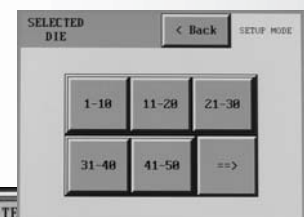
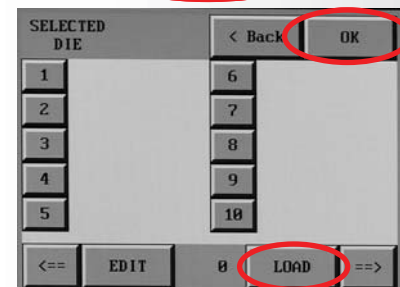
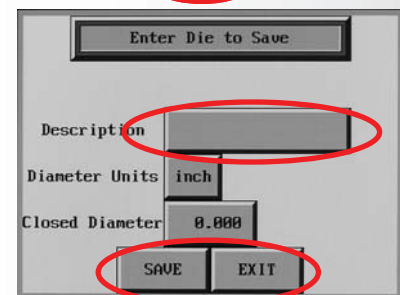
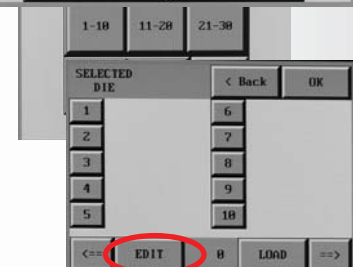
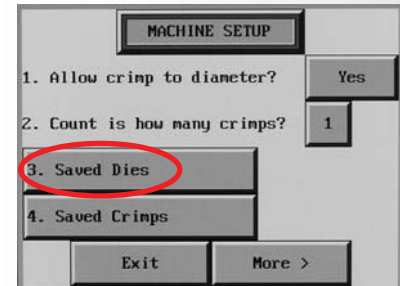
- From the **OPTION** screen, press **SETUP MODE**.
- Select **SAVED DIES**.
- Select the save position (1-50) where the die is to be saved and press the **EDIT** button.
- Enter a die description (up to 12 alpha/numeric characters).
- Enter diameter units (inch or metric).
- Enter the closed diameter 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.

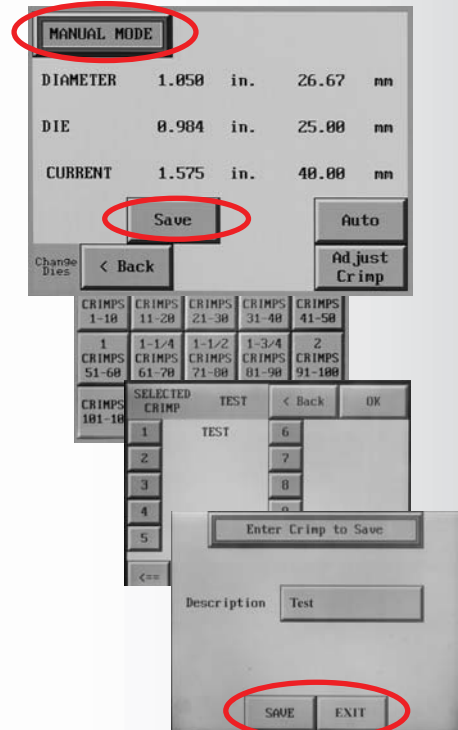




AccuCrimp ACT™ CONTROL PANEL QUICK START

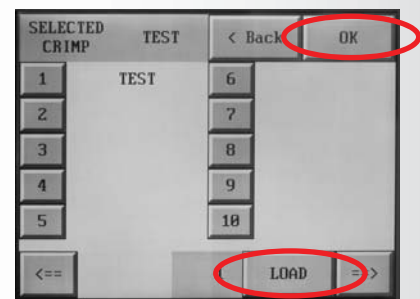
HOW TO ADD A SAVED CRIMP

- 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.

Note: The retraction position must be set a minimum amount above the finished crimp diameter or the crimper will not retract. The minimum retraction diameters are:

- CC38 - Crimp Diameter plus 2 mm
- CC4-50 - Crimp Diameter plus 2 mm
- CC60 - Crimp Diameter plus 3 mm

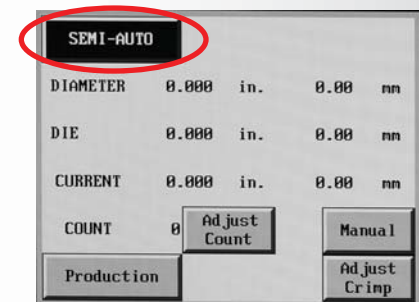
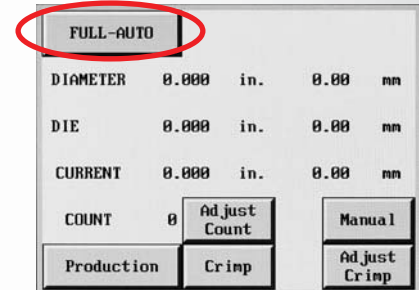
- Pressing the **FULL AUTO** button will toggle the crimper into **SEMI-AUTO** mode. In **SEMI-AUTO** mode, pressing the **FOOT SWITCH** or the **CLOSE** button will close the crimper head and releasing it will cause the head to stop closing. This mode allows the crimper to be jogged into position allowing 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.



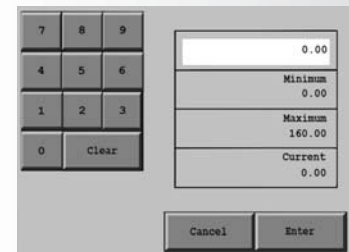
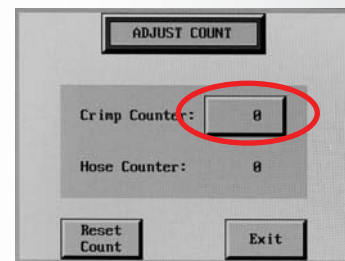
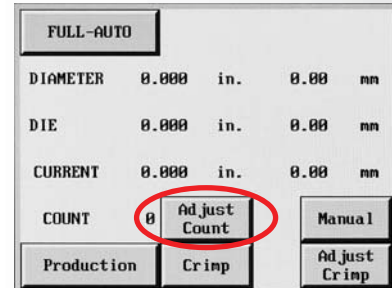


AccuCrimp ACT™ CONTROL PANEL QUICK START

ADJUST CRIMP COUNT

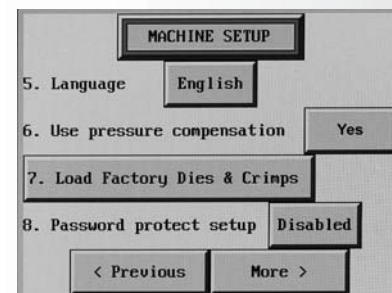
If a production operation is interrupted for some reason, it is possible to reset the counter to where the operation was at the point of interruption.

- 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

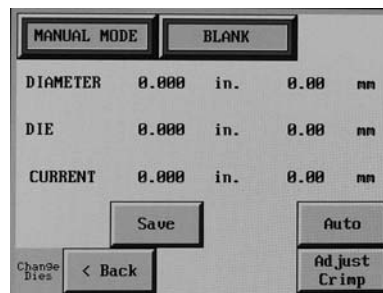
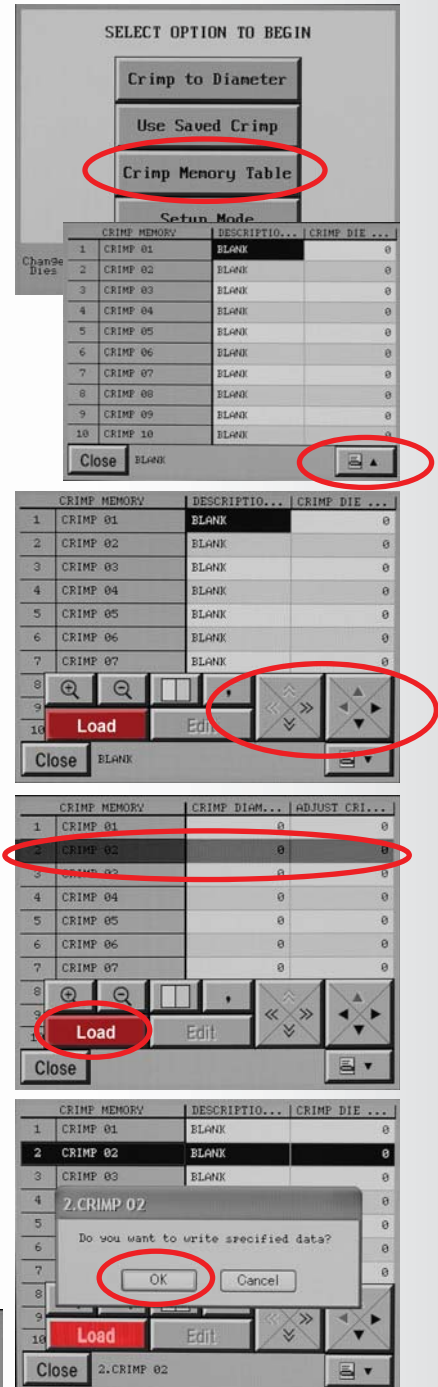
ACT™ ADDITIONAL FEATURES

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.



CC650 Production / Industrial Hose Crimper



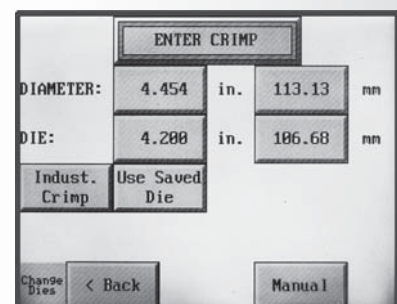
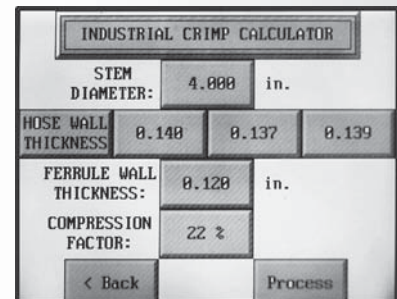
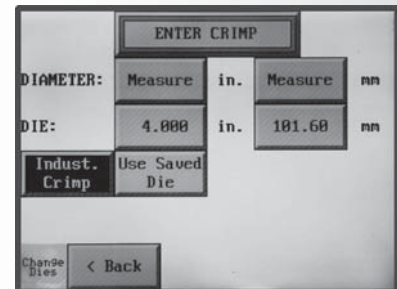
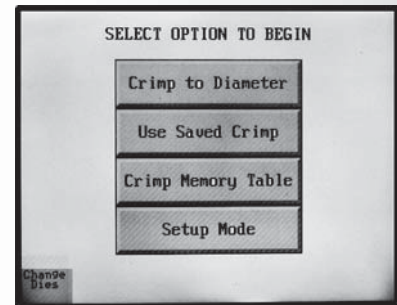
INDUSTRIAL CRIMP CALCULATOR

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.



CC650 Production / Industrial Hose Crimper



CC650 MIC MANUAL DIAL MICROMETER

The CC650 MIC is available with a manual dial micrometer in place of the ACT™ controller. Set up and adapter and die installation are identical to the CC650 ACT model.

The micrometer is a direct reading metric micrometer. With the micrometer set at zero, the die set will close to the fully closed diameter stamped on the face of the die.

The number set on the micrometer will be the amount **ABOVE** the closed diameter of the die at which the dies will stop closing.

Example:

If the required final crimp diameter for the hose and fitting being crimped is 65.5 mm, the correct die set to use would be a 63 mm die set. The micrometer would be set at 2.5 mm as shown, and the final crimp diameter would be 65.5 mm (63 mm-closed die diameter plus 2.5 mm)

Opening and closing of the crimper head is controlled with the foot switch. Press and hold the foot switch until the crimp is complete and the dies stop closing.

Always check the hose and fitting with a caliper to be certain that the final crimp diameter is in accordance with the hose and fitting manufacturers specifications.





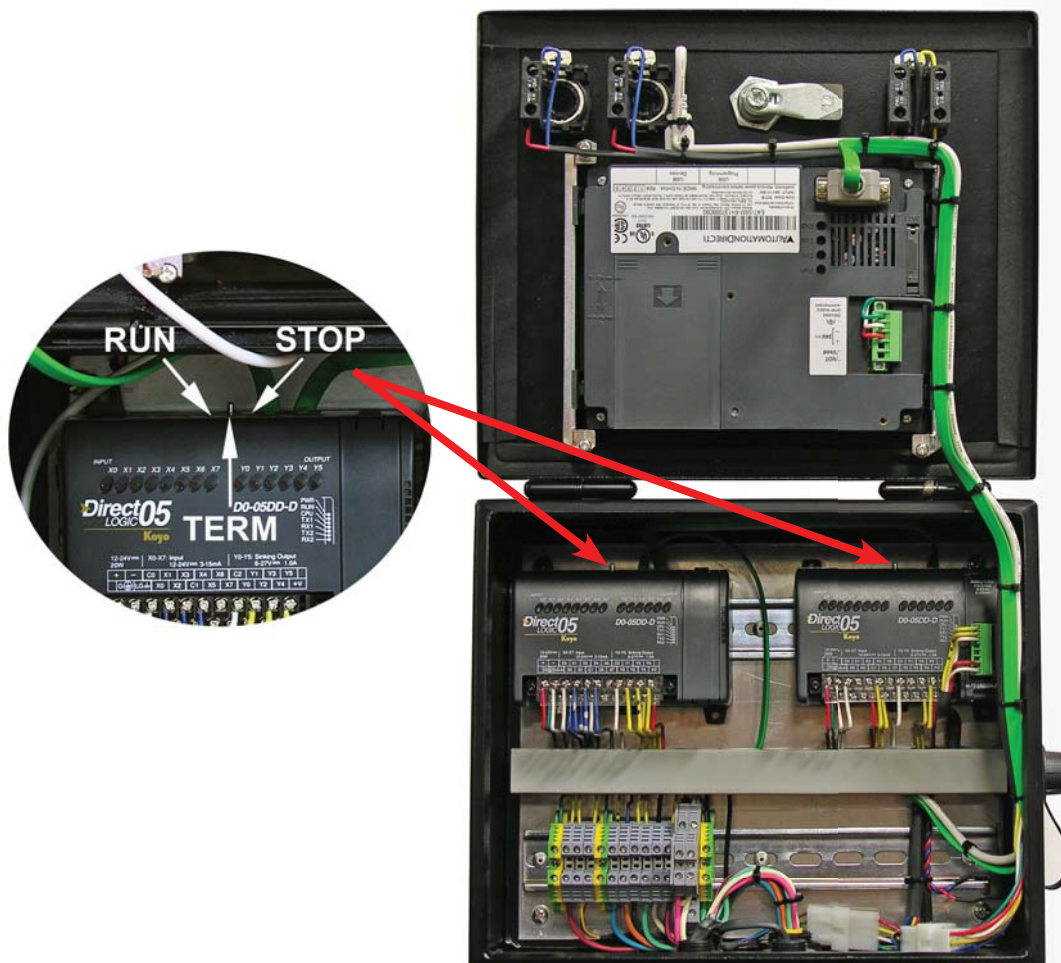
PLC RESET PROCEDURE

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.

CC650 Production / Industrial Hose Crimper



CC650 REPLACEMENT ACCESSORIES



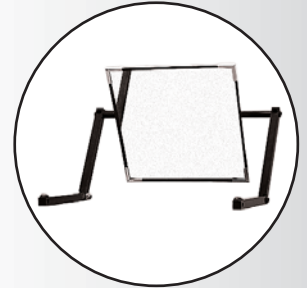
6" Touch Screen Panel
P/N:102600-ACT



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



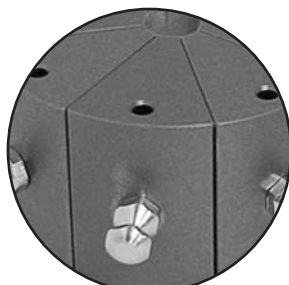
CRIMPX Die Lubricant 14 oz
large grease tube P/N:103888



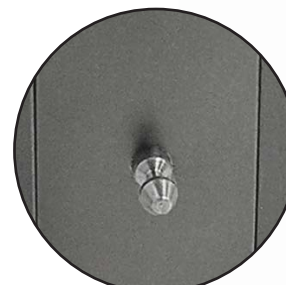
CustomCrimp® Notched Digital
Caliper IN/MM P/N:CC-Caliper



Adapter Die Set 160mm OD to
99mm ID P/N:103899



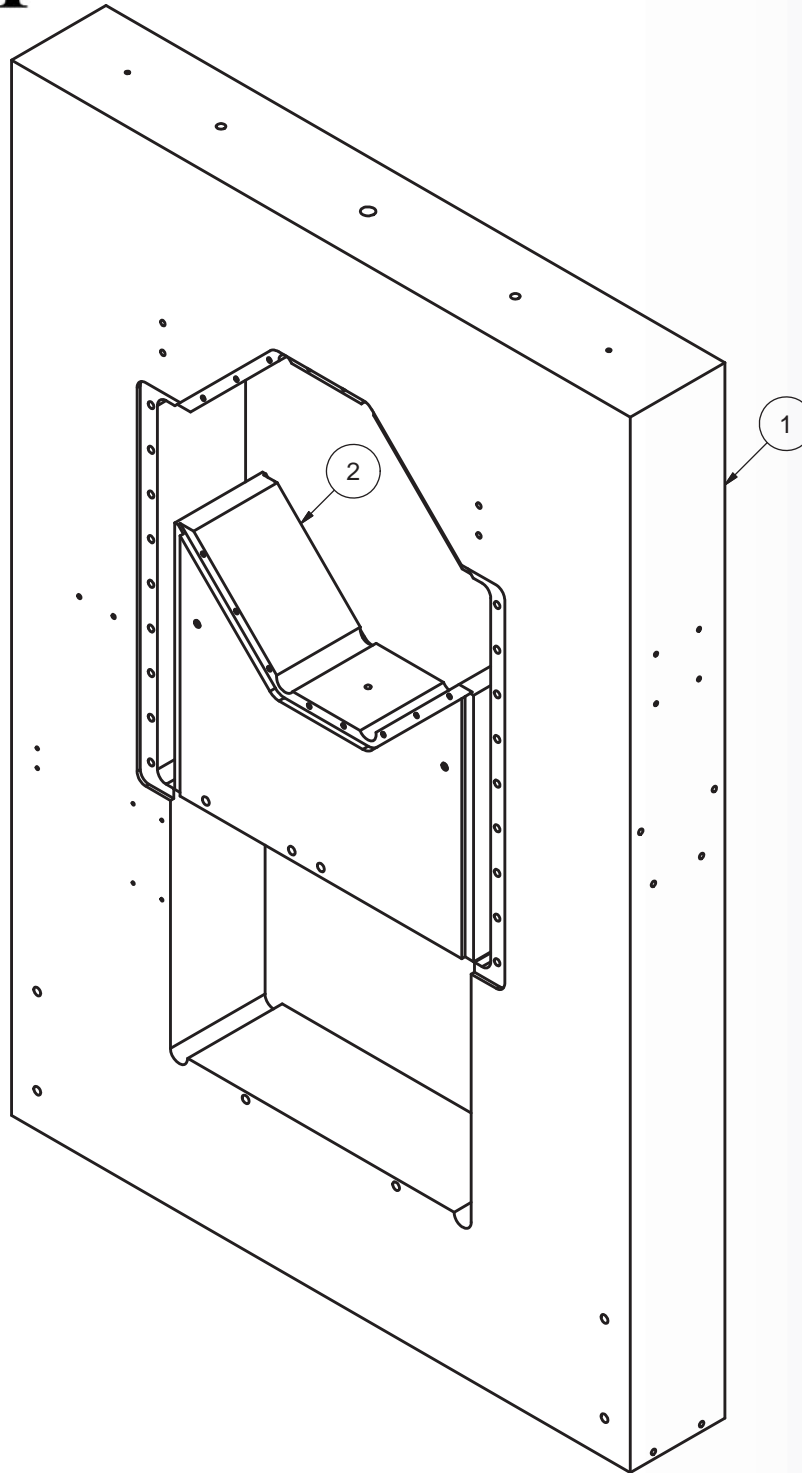
Die Lock Pin For 84S/99S Die
Series P/N:101582



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



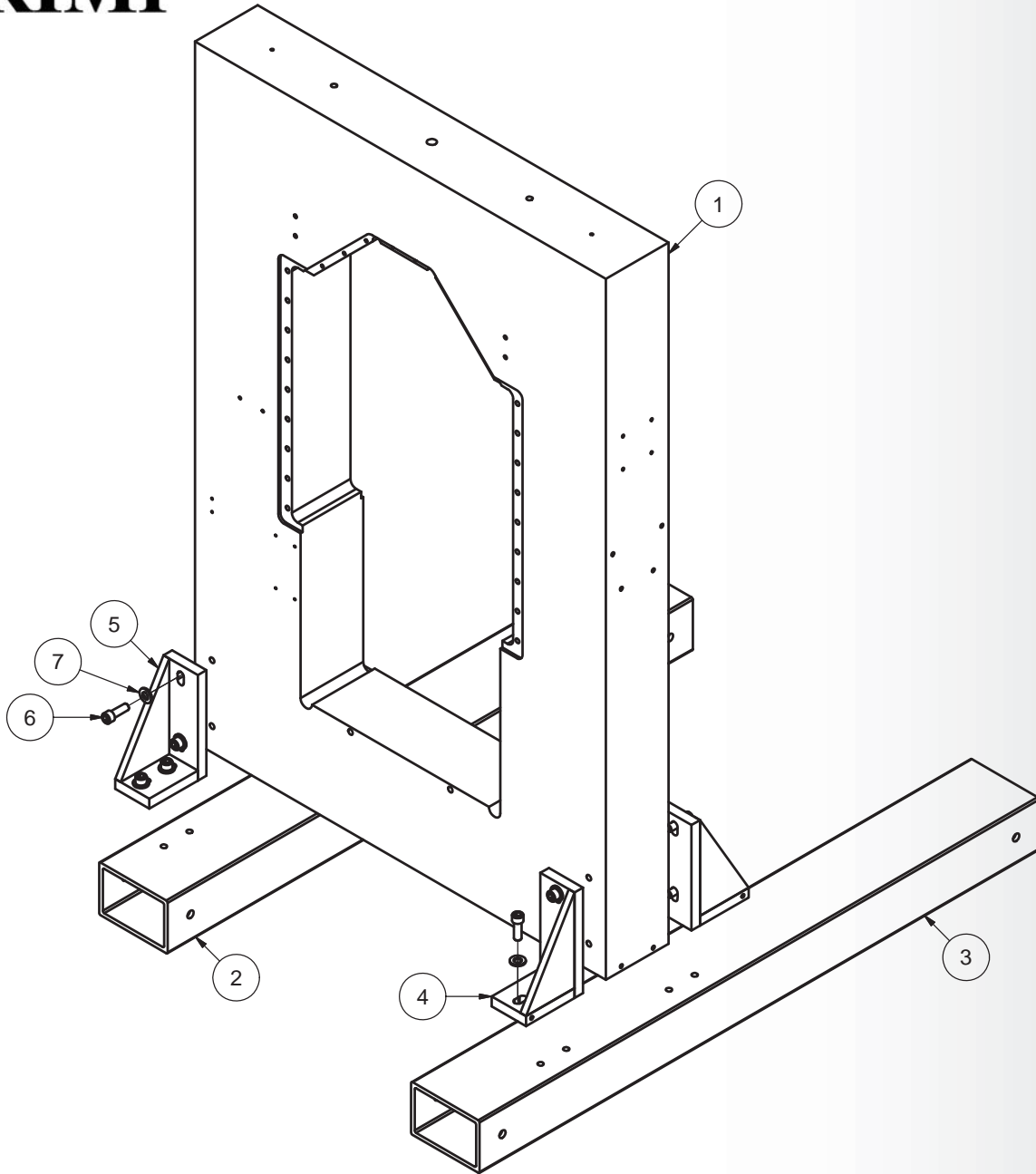
COMPONENT PARTS BREAKDOWN



CC 650 Frame and Sliding V Block (103948)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	103323	CC600 Frame	1
2	103324	CC600 Sliding V Block	1



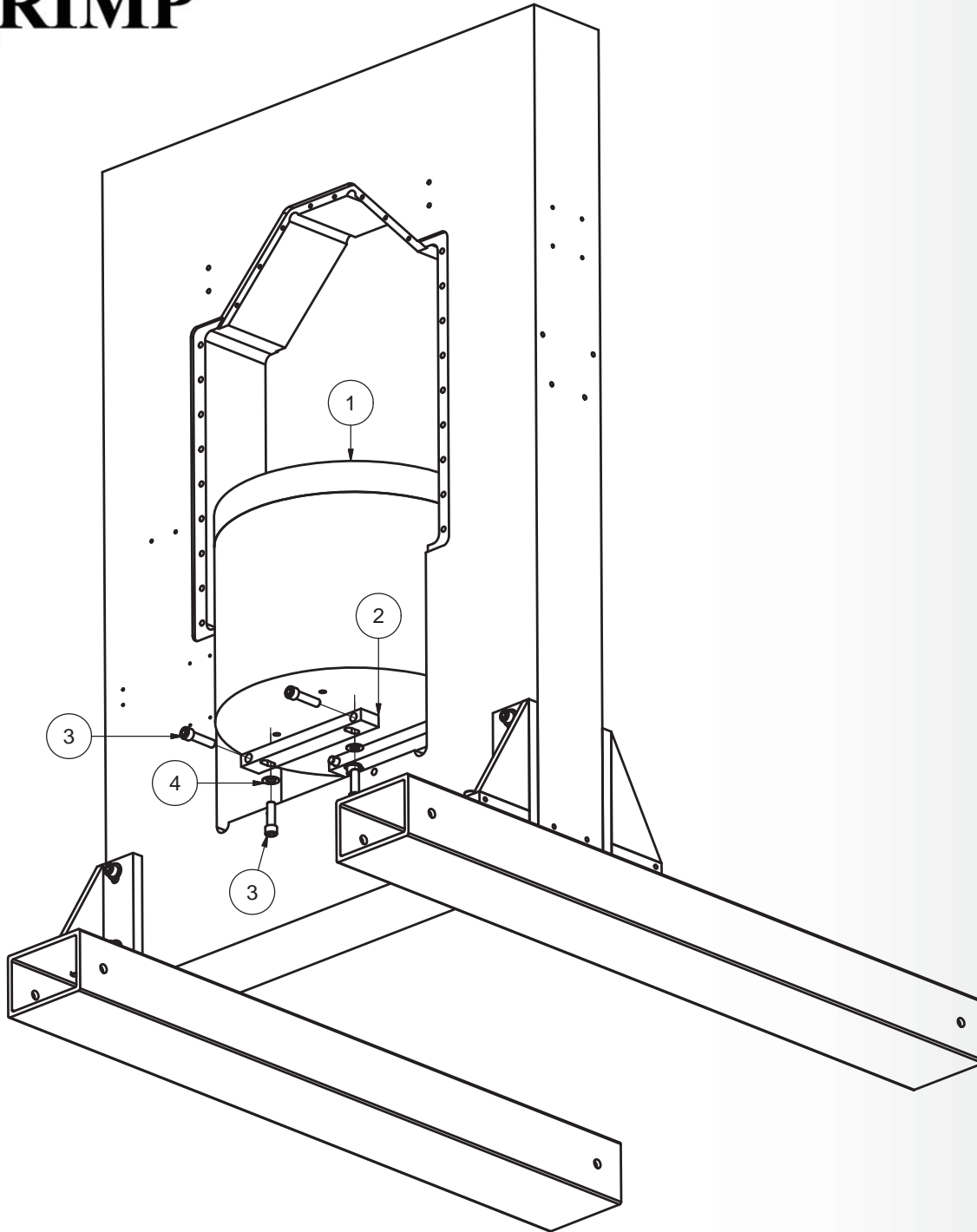
COMPONENT PARTS BREAKDOWN



CC 650 Feet and Leg Assembly (103947)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	103323	CC600 Frame	1
2	103377	CC600 Left Foot	1
3	103378	CC600 Right Foot	1
4	103376-R	CC600 Right Leg Assembly	2
5	103376-L	CC600 Left Leg Assembly	2
6	MTS15612	M12 X 35 SHCS	16
7	WS23558	1/2 Flat Washer	16



COMPONENT PARTS BREAKDOWN

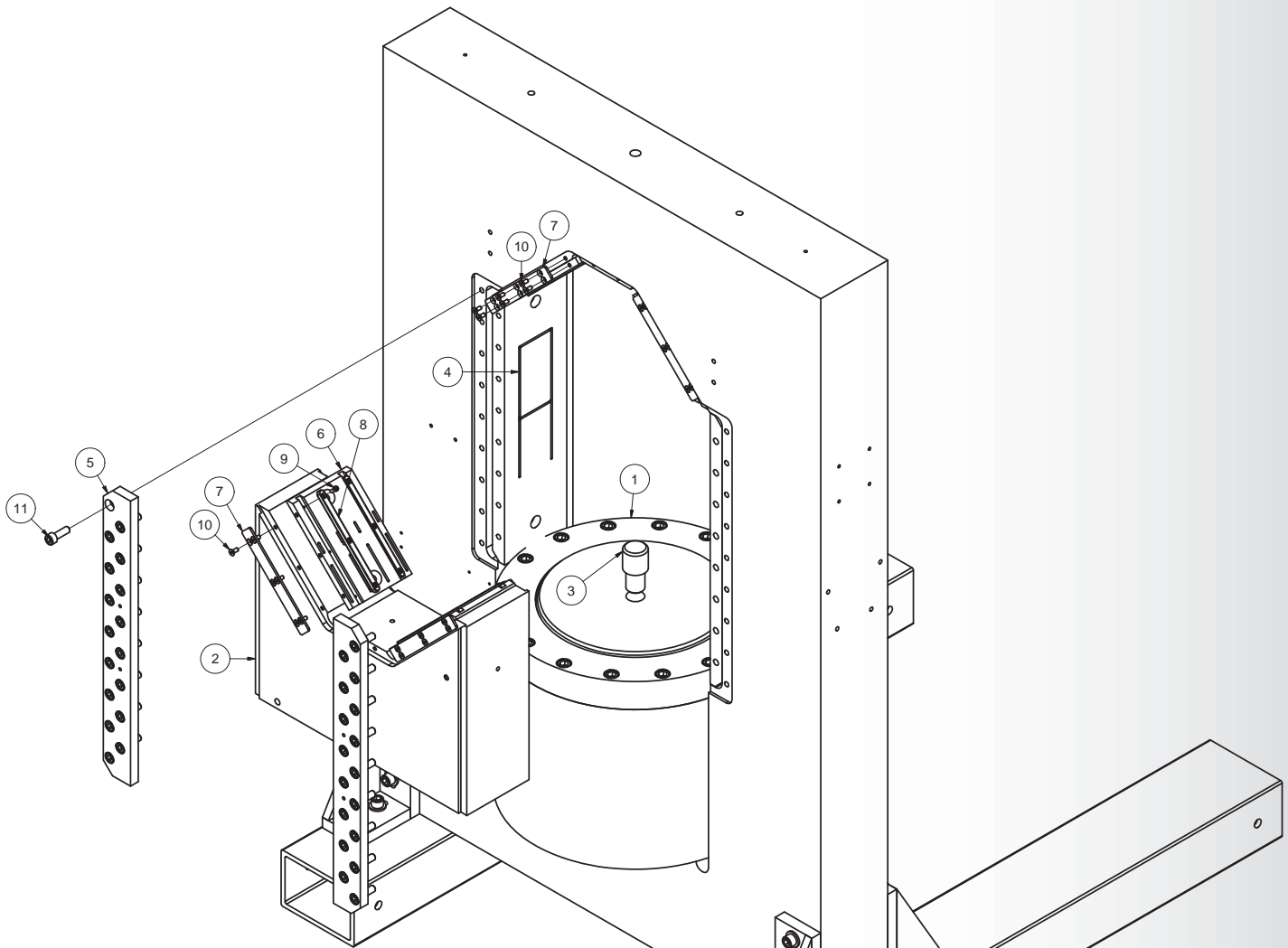


CC650 Cylinder Installation Assembly (103949)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	103913	CC 650 Cylinder Assembly	1
2	103935	Cylinder Mounting Bracket	2
3	MTS15615	M12 X 50 SHCS	8
4	WS23558	1/2 Flat Washer	4

CC650 Production / Industrial Hose Crimper



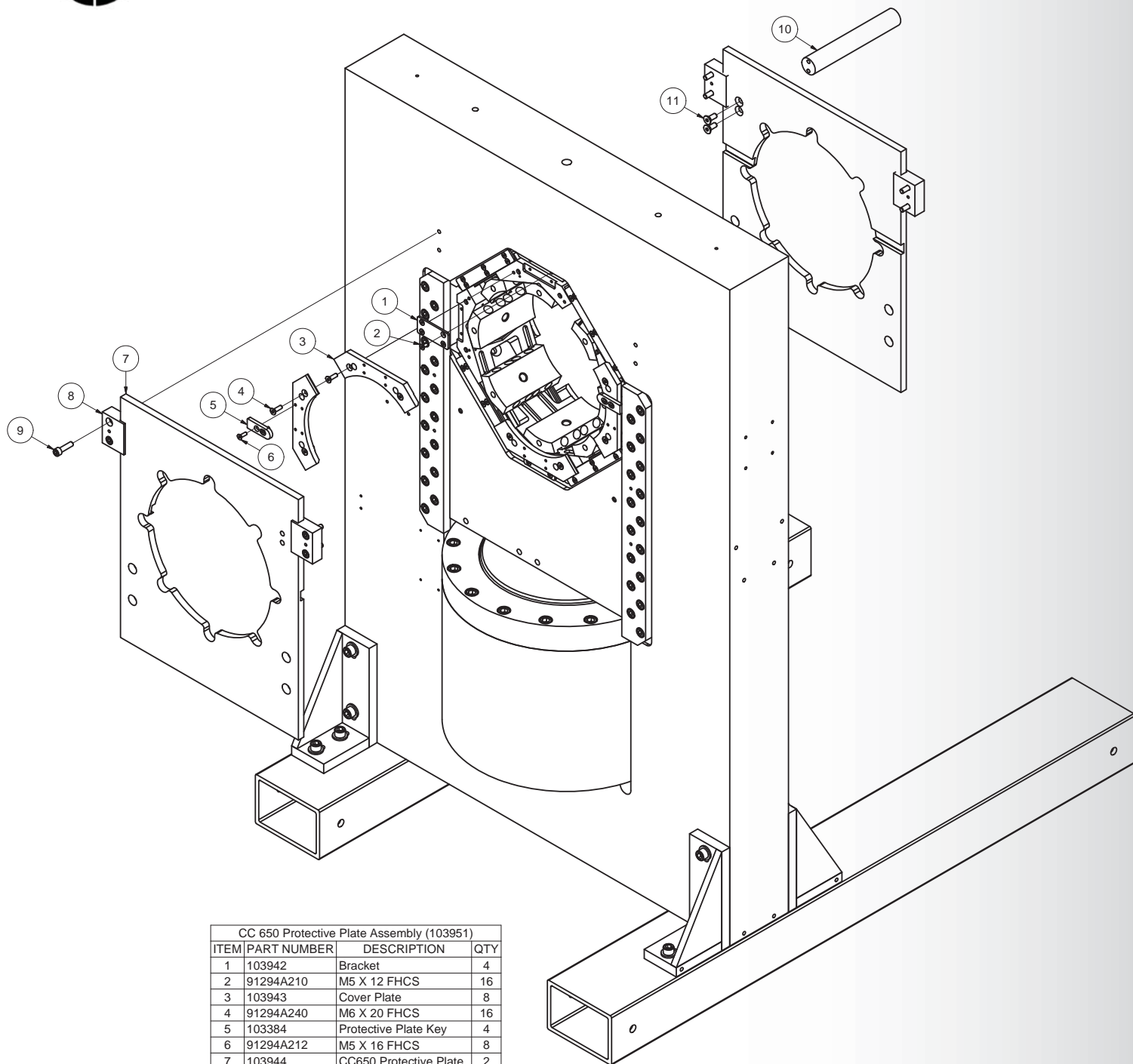
COMPONENT PARTS BREAKDOWN



CC 650 Wear Plate Assembly (103950)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	103913	CC650 Cylinder Assembly	1
2	103324	Sliding V-Block	1
3	103246	V-Block Locating Pin	1
4	103337	Fixed Wear Plate	2
5	103350	Side Guide Plate	4
6	103929	CC650 Master Die Wear Plate	4
7	103941	Plate Mounting Bracket	8
8	103366	Wear Plate T-Nut	8
9	MTS15499	M4 X 12 SHCS	24
10	91294A210	M5 X 12 FHCS	48
11	MTS15583	M10 X 30 SHCS	68



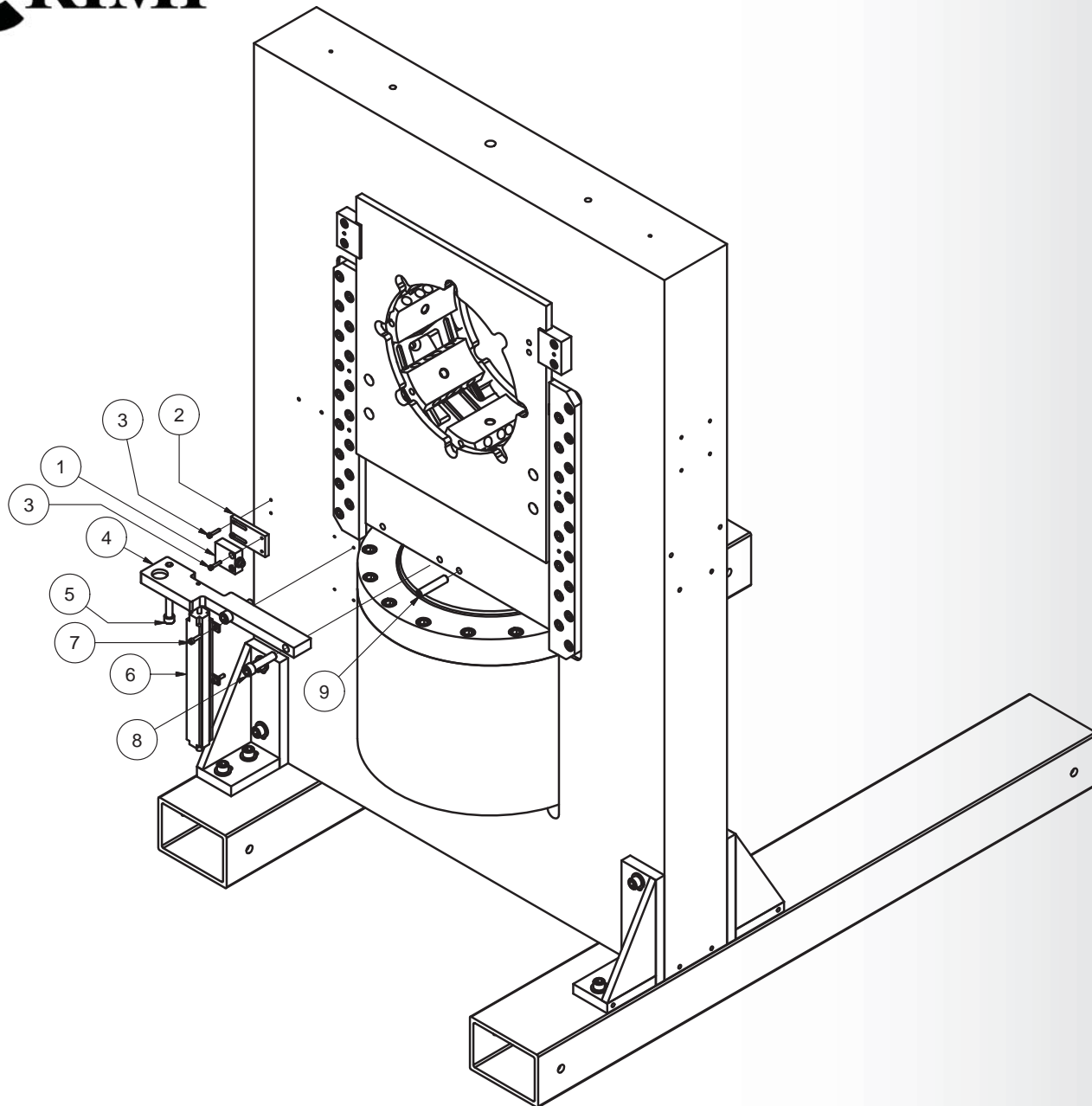
COMPONENT PARTS BREAKDOWN



CC 650 Protective Plate Assembly (103951)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	103942	Bracket	4
2	91294A210	M5 X 12 FHCS	16
3	103943	Cover Plate	8
4	91294A240	M6 X 20 FHCS	16
5	103384	Protective Plate Key	4
6	91294A212	M5 X 16 FHCS	8
7	103944	CC650 Protective Plate	2
8	103387	Alignment Tab	4
9	MTS15554	M8 X 30 SHCS	8
10	103391	Backstop Mount	1
11	91294A284	M8 X 20 FHCS	2



COMPONENT PARTS BREAKDOWN

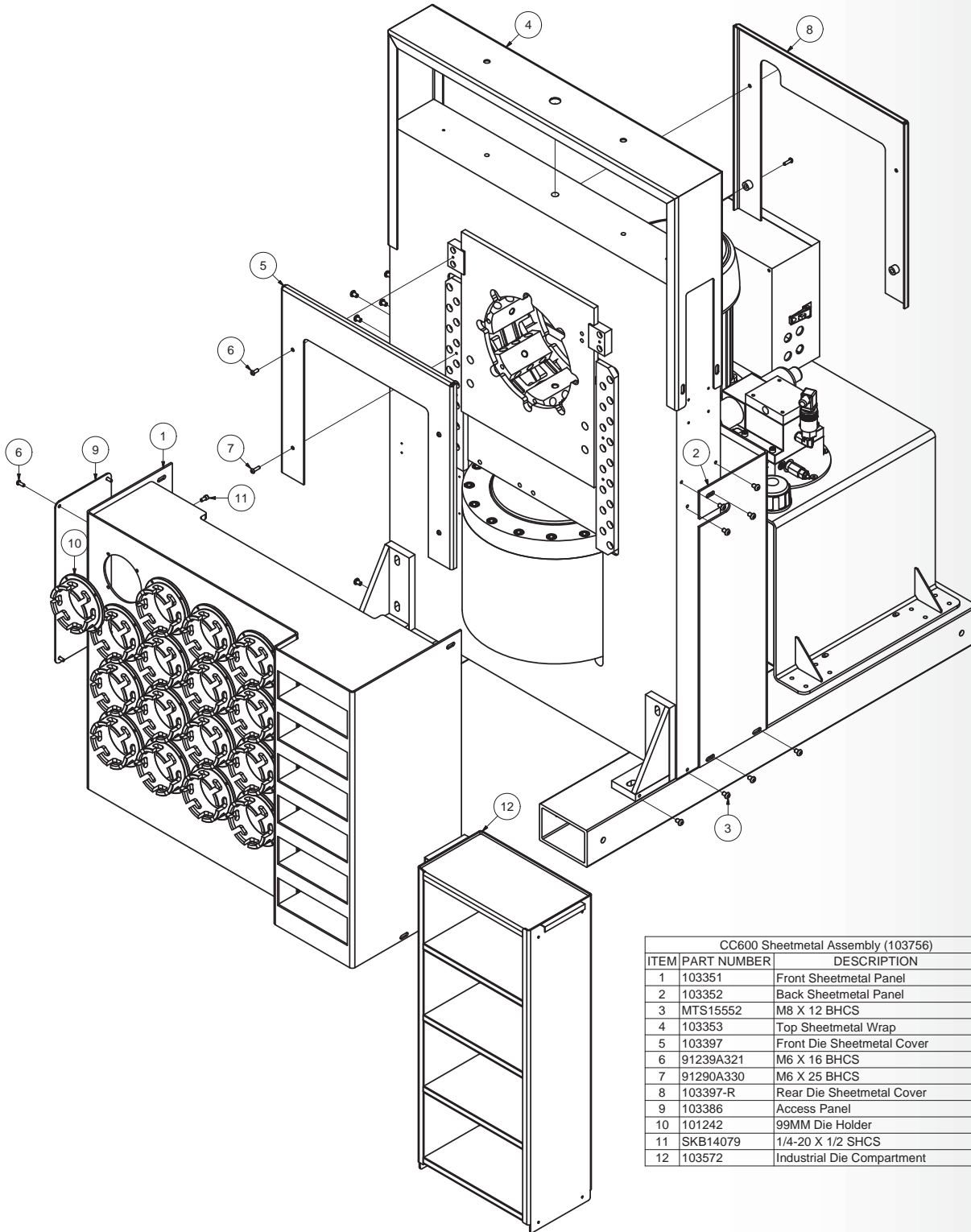


CC600/650 Potentiometer/Limit Switch Assembly (103952)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	103473	Roller Limit Switch	1
2	103349	Limit Switch Adjustable Bracket	1
3	SKC2095	10-24 X 3/4 SHCS	4
4	103381	Potentiometer Bracket	1
5	91290A548	M10 X 100 SHCS	1
6	103472	CC600/1000 Linear Potentiometer	1
7	103472	M4 X 20 SHCS	4
8	MTS15615	M12 X 50 SHCS	2
9	91390A181	M12 X 70 Set Screw	1

CC650 Production / Industrial Hose Crimper



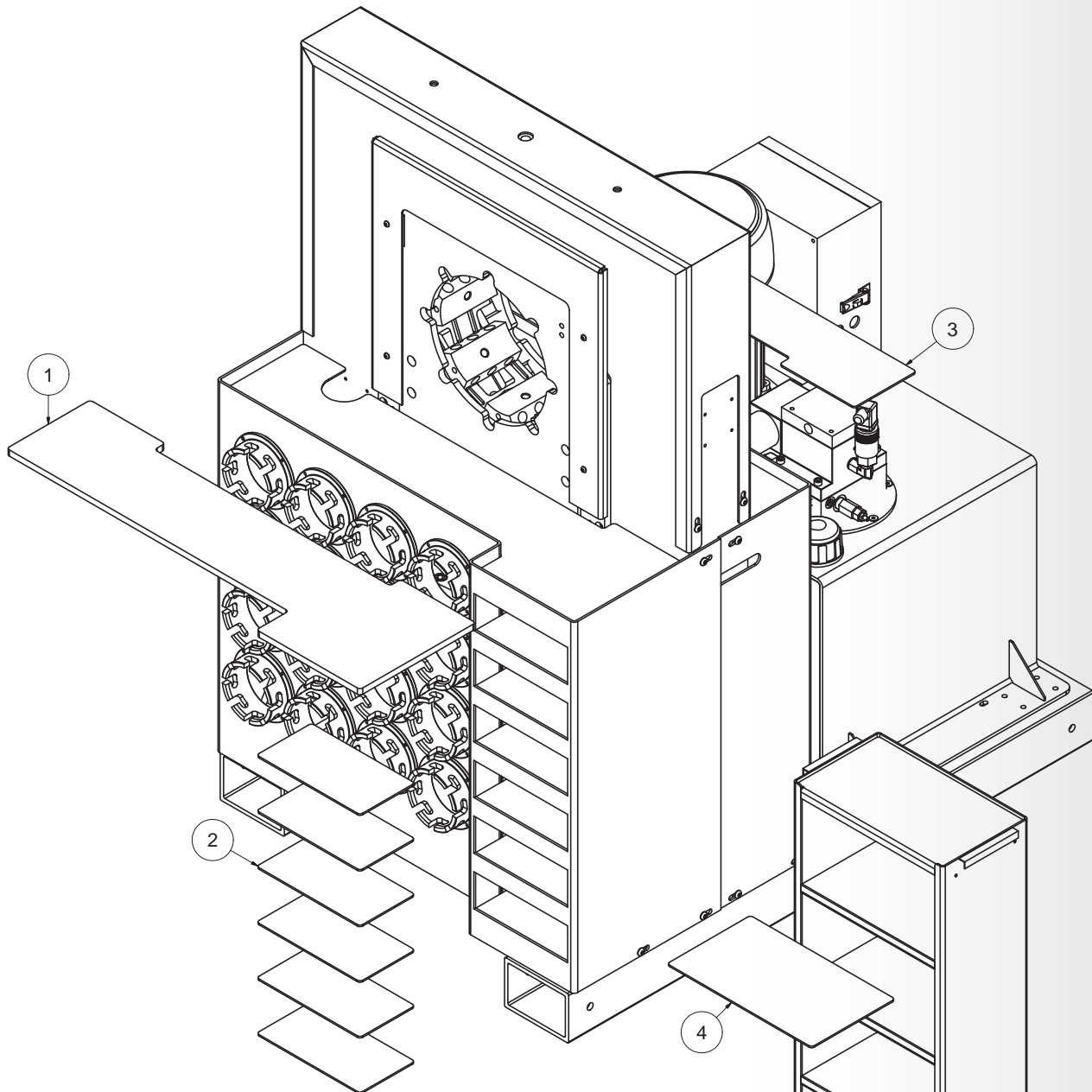
COMPONENT PARTS BREAKDOWN



CC600 Sheetmetal Assembly (103756)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	103351	Front Sheetmetal Panel	1
2	103352	Back Sheetmetal Panel	1
3	MTS15552	M8 X 12 BHCS	16
4	103353	Top Sheetmetal Wrap	1
5	103397	Front Die Sheetmetal Cover	1
6	91239A321	M6 X 16 BHCS	8
7	91290A330	M6 X 25 BHCS	4
8	103397-R	Rear Die Sheetmetal Cover	1
9	103386	Access Panel	1
10	101242	99MM Die Holder	16
11	SKB14079	1/4-20 X 1/2 SHCS	64
12	103572	Industrial Die Compartment	1



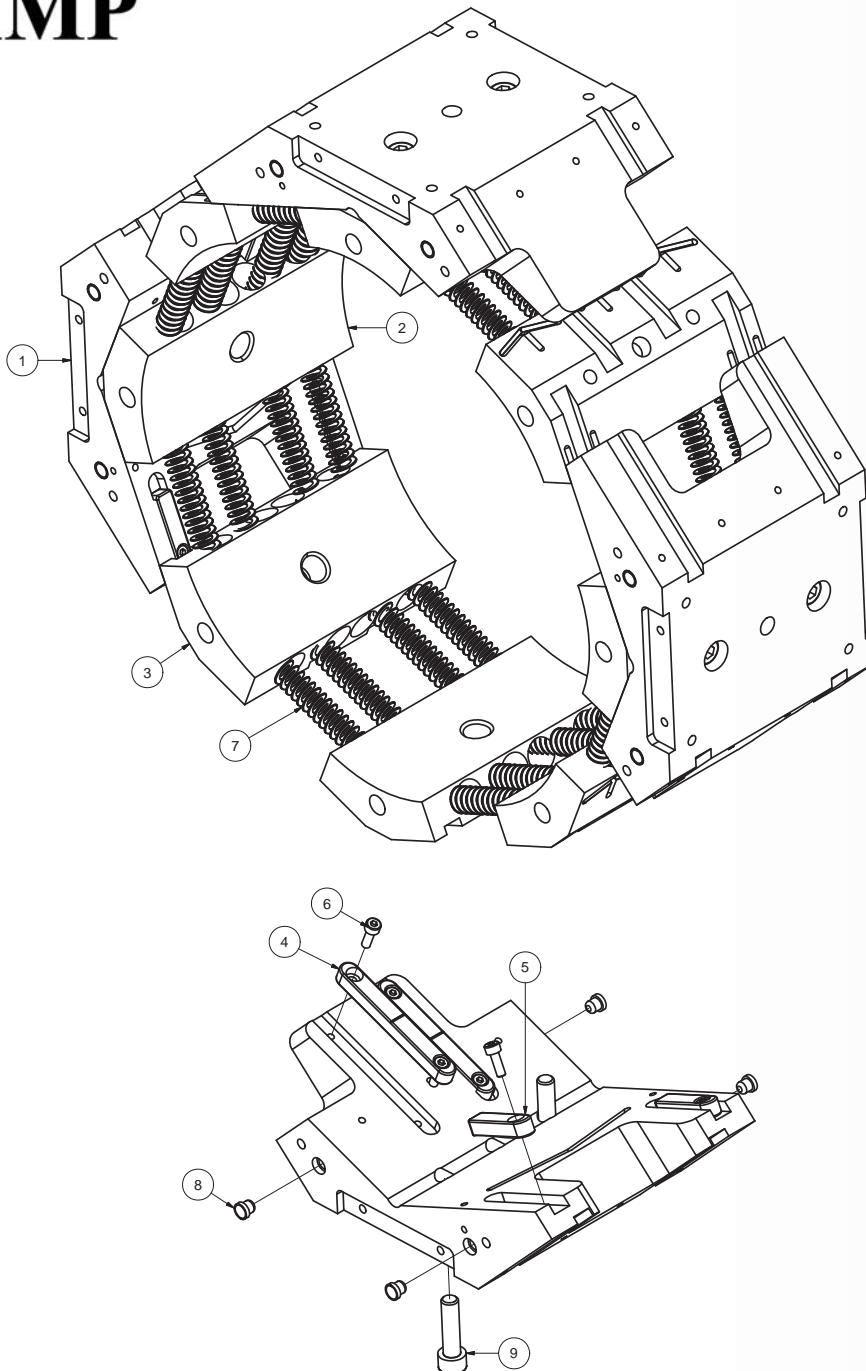
COMPONENT PARTS BREAKDOWN



CC600 Neoprene Pad Installation (103768)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	103389	Front Neoprene Pad	1
2	103390	Cubbie Neoprene Pad	6
3	103388	Back Neoprene Pad	1
4	103573	Industrial Die Holder Mat	5



COMPONENT PARTS BREAKDOWN



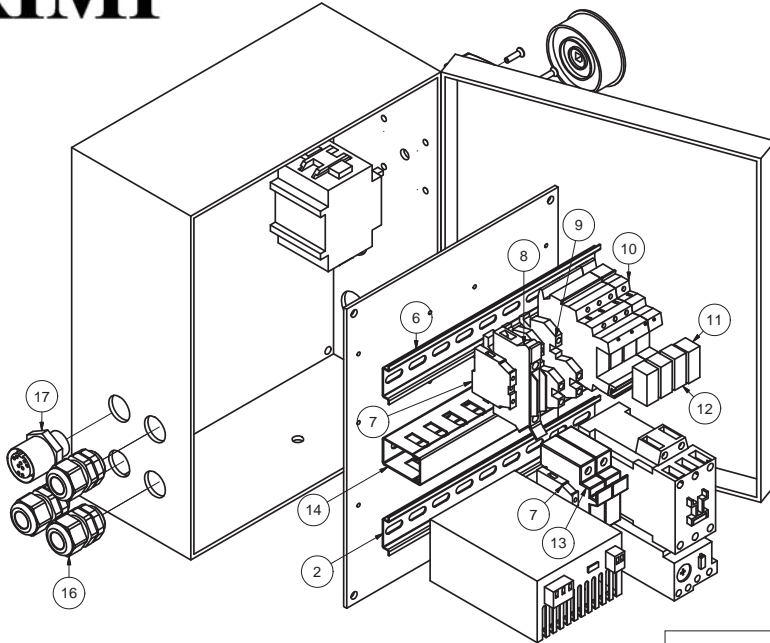
CC650 Master Die Assembly (103954) Current as of 11/2/12

ITEM	PART NUMBER	DESCRIPTION	QTY
1	104128	CC650 Master Die Carrier	4
2	103930	CC650 Master Die Shoes	4
3	103930-R	CC650 Master Die Shoes	4
4	103367	Medium T-Nut	8
5	103464	Short T-Nut	8
6	91290A148	M4 X 12 SHCS	24
7	103955	Master Die Spring	32
8	102793	6mm Flush Style Grease Fitting	16

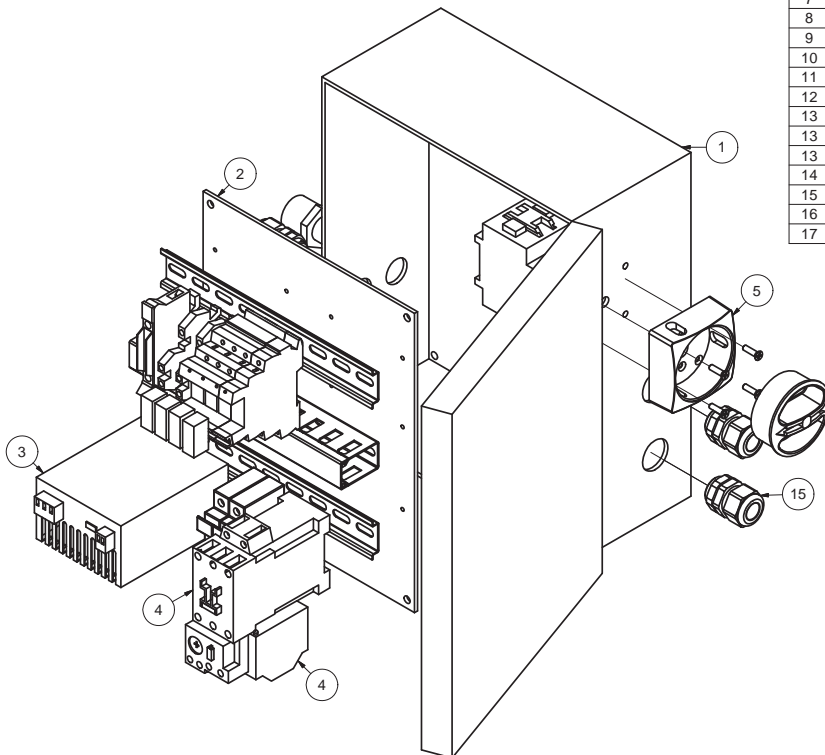
CC650 Production / Industrial Hose Crimper



COMPONENT PARTS BREAKDOWN



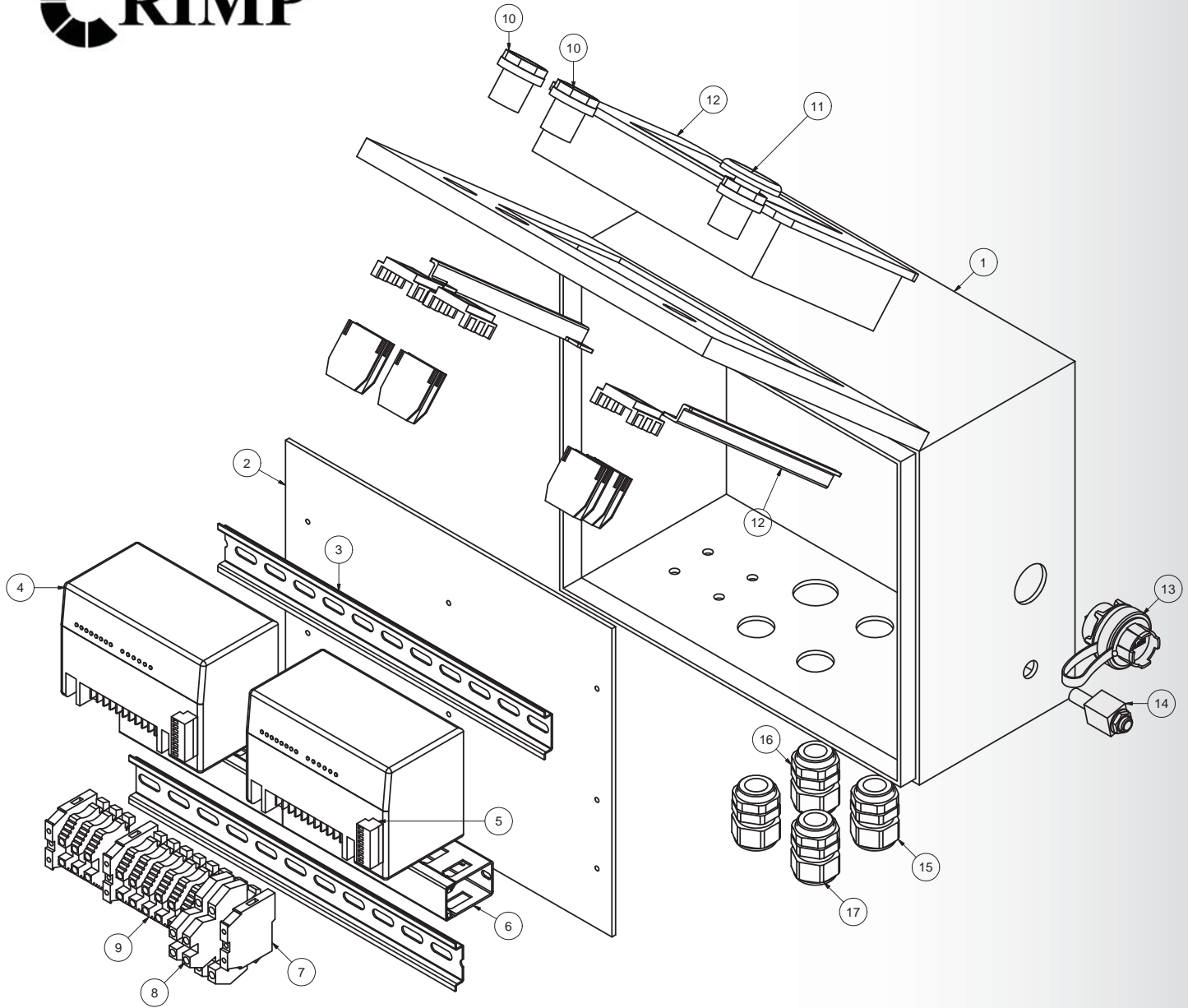
CC600 Electrical Enclosure Assembly (103759)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	103796	Electrical Enclosure	1
2	103797	Electrical Enclosure Circuit Panel	1
3	102371-120/230	230V Power Supply	1
3	102371-480	480V Power Supply	1
4	103827-2500	230VAC-5HP/7.5HP Overload Relay	3
4	103827-1300	480VAC Overload Relay	1
4	102369-230-25A	230VAC-5HP/7.5HP Motor Contactor	1
5	103151	63 Amp Disconnect Switch	1
5	103050	50 Amp Disconnect Switch	1
6	103788	8.75" Din Rail	2
7	102365	Ground Terminal Block	2
8	102367	Fuse Block	1
9	103775	2 Level Terminal Block	2
10	102368	Relay Block	4
11	102368	White Relay Block (Motor)	1
12	103782	Black Relay Block	3
13	103777	Midget 5 AMP Fuse Holder (230V)	1
13	103882	Midget 5 AMP Fuse Holder (480V)	1
13	103778	Midget 5 AMP Fuse	2
14	103868	8.75" Plastic Wire Duct	1
15	103799	3/4" NPT Cord Grip	2
16	103798	1/2" NPT Romex Cord Grip	3
17	103780	9 Pole Female Receptacle w/Pigtails	1



CC650 Production / Industrial Hose Crimper



COMPONENT PARTS BREAKDOWN



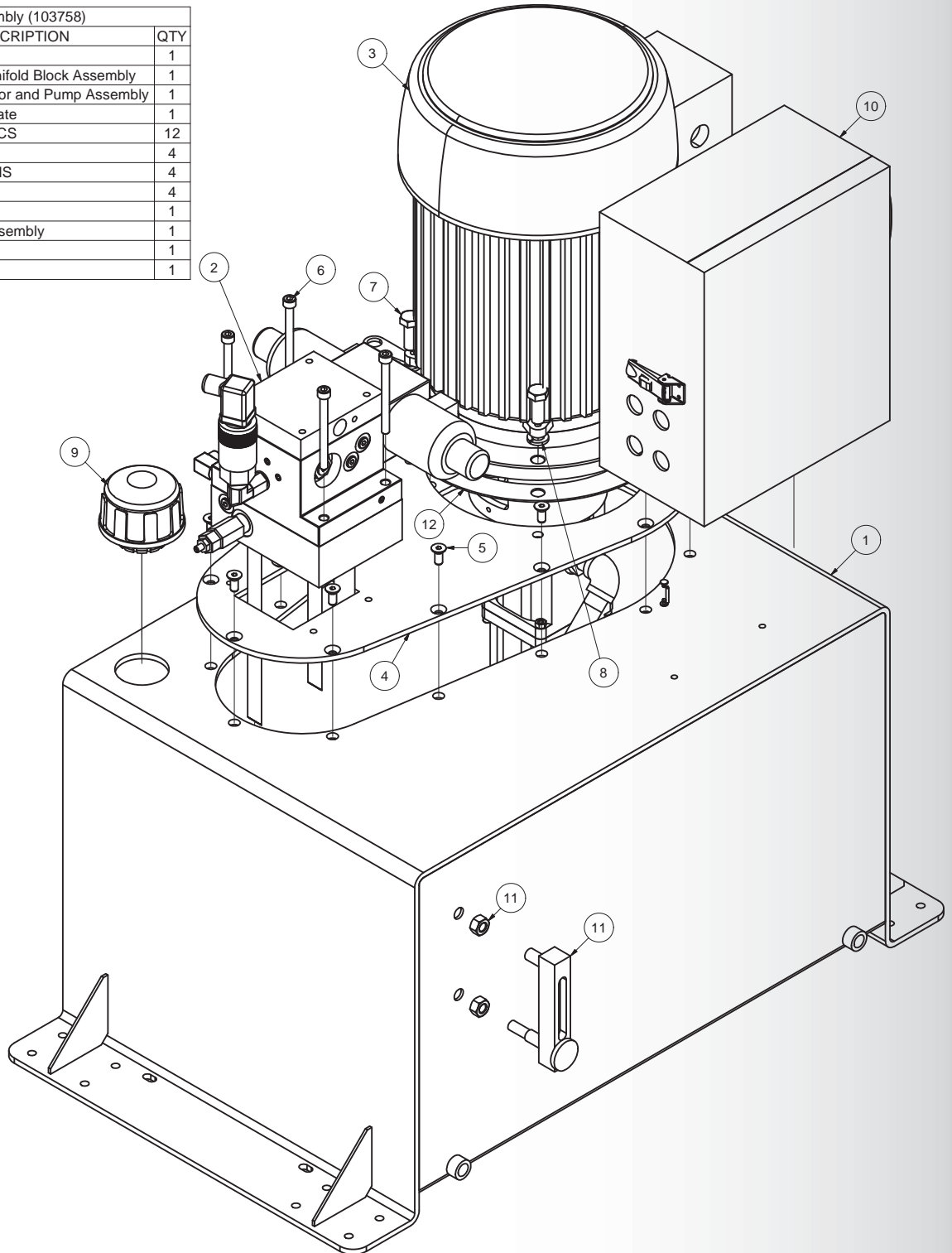
CC600/1000/Nut Crimper Tower Box Assembly (103761)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	103802	CC600/1000/Nut Crimper Tower Box	1
2	103761	Tower Box Electrical Panel	1
3	103788	11" Din Rail	2
4	102370-PLC	DL05 PLC	2
5	102370-ACT	0-10V Analog In/Out Card	1
6	103868	11" Plastic Wire Duct	1
7	102365	Ground Terminal Block	3
8	103775	2 Level Terminal Block	2
9	103785	Terminal Block	9
10	101545-GREEN	Open/Close Push Button	2
11	101545-RED	Emergency Stop Button	1
12	102600-ACT	6" Touch Screen Text Panel	1
13	103792	USB Connector	1
14	103874	Foot Pedal Receptical	1
15	103828	3/4" NPT Cord Grip	1
16	103800	1/2" NPT Romex Cord Grip	1
17	103801	3/8" NPT Cord Grip	2

CC650 Production / Industrial Hose Crimper



COMPONENT PARTS BREAKDOWN

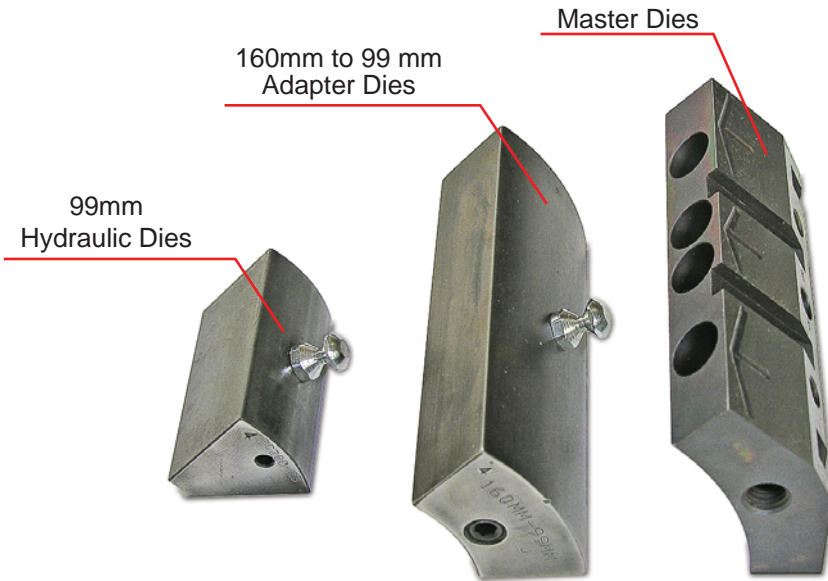
CC600 Power Unit Assembly (103758)			
ITEM	PART NUMBER	DESCRIPTION	QTY
1	103278	24 Gallon Tank	1
2	102523	CC1000/600 Manifold Block Assembly	1
3	103760	CC1000/600 Motor and Pump Assembly	1
4	102618-03	Reservoir Top Plate	1
5	SKF14342	5/16-18 x 3/4 FHCS	12
6	91290A466	M8 x 90 SHCS	4
7	NC51622-Z	1/2-13 x 1 1/4 HHS	4
8	WLK3508-Z	1/2 Lock Washer	4
9	103048	Venter Filler Cap	1
10	103759	Electrical Sub Assembly	1
11	103808	Sight Filler Glass	1
12	101539-01	Flange Gasket	1



CC650 Production / Industrial Hose Crimper



CC650 DIE PART IDENTIFICATION

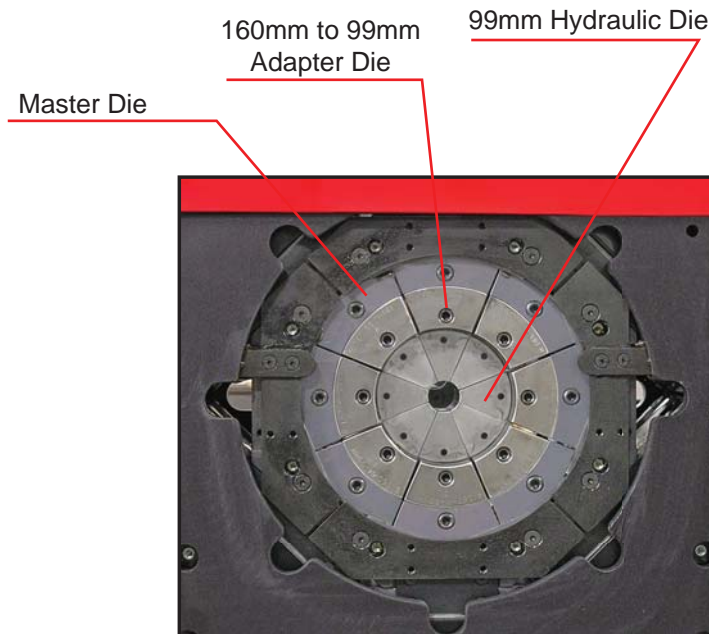


Master Dies Accept:

- 160/99mm Adapter Dies; or
- 160S Series Dies (84 - 135mm)
- 160OB Series Dies (142 - 190mm)

160/99 Adapter Dies Accept:

- 99S Series Dies (8.5 - 78mm (1/4" - 2 1/2"))



CC650 Preventative Maintenance Package



CustomCrimp®'s preventative maintenance program is an annual service which keeps your crimper cleaned, calibrated, and running in peak performance. This service includes the cleaning of main wear components, inspection of wear components and seals, and calibration of your crimper. Prevent downtime with this economical service package performed at your facility.



CC600 / CC650 PREVENTATIVE MAINTENANCE PACKAGE INCLUDES:

- Inspection and Cleaning of the Protective Plates.
- Inspection and Cleaning of the Master Die Cover Plates.
- Inspection and Cleaning of the Master Die Carriers.
- Inspection and Cleaning of the Master Die Shoes.
- Inspection and Cleaning of the Master Die Wear Plates.
- Inspection and Cleaning of the Master Die Alignment Keys.
- Inspection and Cleaning of the Side Guide Plates.
- Inspection and Cleaning of Adapter Dies.
- Inspection of the Cylinder.
- Inspection of the Potentiometer.
- Inspection of the Electrical Components.
- Replacement of the Master Die Springs.
- Crimper Care Package (Dies Studs, Quick Change Tool Pins, Grease Gun, Screen Protector).
- Oil Change (If Customer Provides the Oil and disposal of used oil).
- Update of ACT Controller software (if needed).
- New Grease Applied of All Wear Surfaces.
- Crimper Calibration.
- Written Crimper Documentation Report.

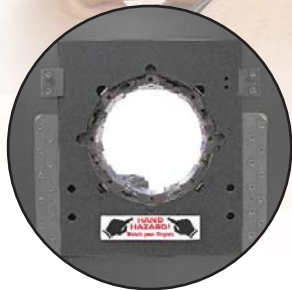
CC650 Preventative Maintenance Package



We understand how critical it is to have your crimpers running everyday and limiting downtime. We hope that our services will help eliminate downtime, shipping costs, and uncertainty of when your machine will be fixed. Please feel free to search our website and contact us with any questions.

DURABLE, RELIABLE DESIGN = PROFITABILITY

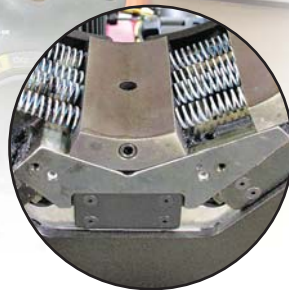
- Annual service prevents crimper downtime.
- Save money on multiple crimpers at one location.
- Written report showing crimpers current condition and future needs.



Inspection & Cleaning of the Protective Plates



Inspection & Cleaning of the Master Die Cover Plates



Inspection & Cleaning of the Master Die Carriers & Master Die Shoes



Inspection & Cleaning of the Master Die Wear Plates & Master Die Alignment Keys



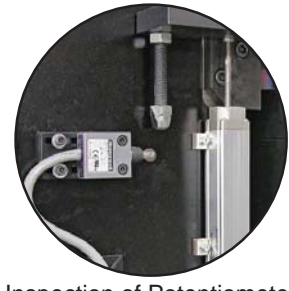
Inspection & Cleaning of Side Guide Plates



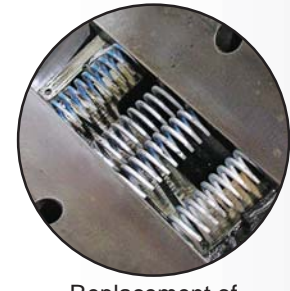
Inspection & Cleaning of Adapter Dies



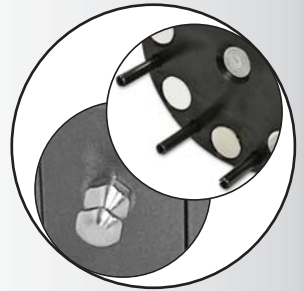
Inspection of Cylinder



Inspection of Potentiometer



Replacement of Master Die Springs



Inspection of Die Studs & Quick Change Tool Pins



Replacement of Die Studs & Quick Change Tool Pins



Update of ACT™ Controller Software (If needed)



New Grease Applied on All Wear Surfaces



Crimper Calibration



Written Crimper Documentation Report

Master die assembly wear and function:	EXCELLENT
Master die wear plates wear and function:	EXCELLENT
Side guide plates wear and function:	EXCELLENT
Cylinder condition:	EXCELLENT
Protective plates wear and function:	EXCELLENT
Master die alignment keys wear:	EXCELLENT
PREVENTATIVE MAINTENANCE:	
103955	CC 650 MASTER DIE SPR
03889	CRIMPER GREASE GUN
14-465	5 GALLON OIL KIT
	CC SERIES SUCTION
	CC SERIES SCREW
	HYDRONIC



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

CustomCrimp®

www.customcrimp.com

(219) 462-6128



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.

CC650 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®
Custom Machining Services, Inc.
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

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