



CC38 CRIMPER OPERATORS MANUAL



KEEP HANDS AWAY FROM PINCH POINTS

CONSULT HOSE AND FITTING MANUFACTURER'S SPECIFICATIONS FOR CORRECT MACHINE SETTINGS AND CRIMP MEASUREMENTS

ALWAYS WEAR EYE PROTECTION

For Parts and Service, Contact: Custom Machining Services, Inc. Valparaiso, In 46383 (219) 462-6128

CRIMPER COMPONENT PARTS



CRIMPER SPCIFICATIONS & SET UP

SPECIFICATIONS:

MAX HEAD OPENING W/O DIES	
MASTER DIE INSIDE DIAMETER	
MAXIMUM SWAGING RANGE	
MAXIMUM DIE OPENING	DIE CLOSED DIAMETER + 38 MM
CRIMPER SIZE	
WEIGHT	
ELECTRICAL REQUIREMENTS	
••••••	440 VOLT 3 PHASE (OPTIONAL)
MOTOR	5.5 HP
RESERVIOR CAPACITY	8 US GAL
OIL TYPE	ISO 46 HYDRAULIC OIL
MASTER DIES	84 MM I.D. MASTER DIE STANDARD
HOSE CAPACITY	1-1/2 INCH 6 SPIRAL
	2 INCH 4 SPIRAL

INITIAL CRIMPER SET UP

CHECK RESERVIOR OIL LEVEL WITH SIGHT GLASS AT REAR OF TANK

CHECK ELECTRICAL CIRCUIT TO BE CERTAIN THAT IT MATCHES THE CRIMPER REQUIREMENTS SHOWN ON THE TAG ATTACHED TO THE CRIMPER CORD.

MAKE CERTAIN THAT 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.

HYDRAULIC DIE INSTALLATION

Remove the Hydraulic Dies from their holder with the magnetic die insertion tool as shown.

The die size stamped on the face of the die 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 die set.

Bring the crimper head to a fully closed position and remove the die insertion tool.

The dies may also be inserted manually with the crimper head in the fully open position.

Proceed to the AccuCrimp operating instructions to set up the crimper for the hose and fitting being crimped.

For Hydraulic Die removal, place the crimper in manual mode and bring the crimper head to the fully closed position. Insert the die removal tool and open the crimper head releasing the Hydraulic Dies form their spring retention holes.







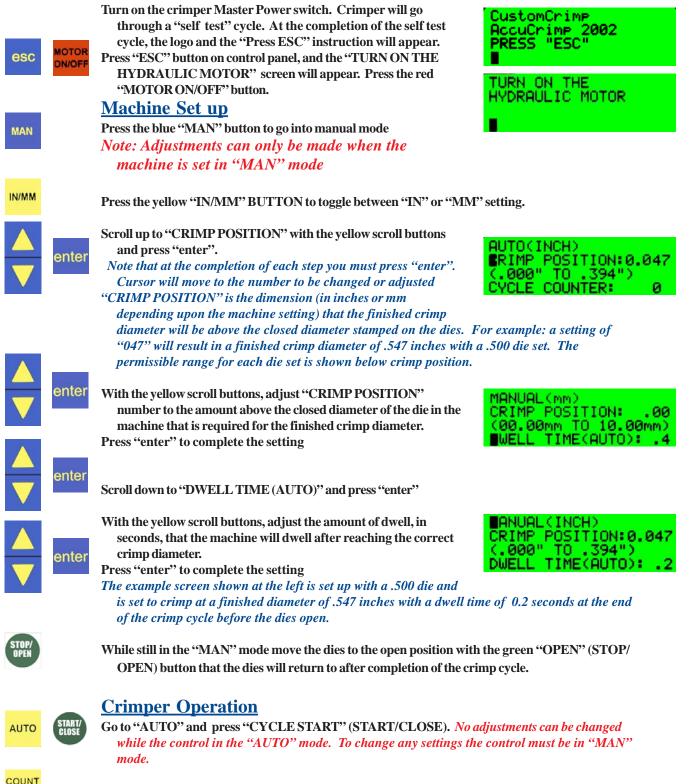


AccuCrimp CONTROL PANEL FUNCTIONS



AccuCrimp OPERATING INSTRUCTIONS

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The cycle counter can be reset at any point to maintain a running count of crimp cycles.

RT/ ISE STOP/ Open

RESET

To operate the machine in "MAN" mode, make the appropriate settings and press the "OPEN DIES" (STOP/OPEN) or "CLOSE DIES" (START/CLOSE) buttons

INITIAL SET UP & MAINTENANCE

Do not lift the machine by the crimper head. Lift with a fork lift under the tank.

Mount the crimper on a sturdy surface

Electrical Requirements: 220 Volt 3 Phase Current (Standard) 440 Volt 3 Phase Current (Optional)

Check to be certain that the motor rotates in the direction of the arrow shown on the motor housing. If motor rotation is opposite of the direction of the arrow, reverse any two hot wires in the electrical plug.

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

Check the oil level in the sight glass on the rear of the crimper. 8 U.S, gallons of ISO 46 hydraulic oil are required to completely refill the tank.

Oil can be drained from either of the two ports at the bottom of the tank.

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

Front Flange Bolts

Front Flange Bolts: The front flange bolts (M14 X 40 Class 12.9) should be retorqued to 200 NM (147 Ft Lbs) every 3 months. If the machine is frequently used at maximum pressure, it is recommended that the front flange bolts be replaced once a year.







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LUBRICATION & MAINTENANCE

Proper lubrication is essential to prevent damage to the machine and to assure accurate crimping.

Lubricate the crimping head after each 100 crimping cycles.

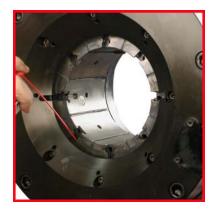
A lubricant containing 60% molybdenum di-sulphide must be used. A can of lubricant (P/N DMA-12) is furnished with the machine. The can must be shaken for a minute in order to assure that the thick lubricant at the bottom of the can is thoroughly mixed with the propellant.

Close the Master Dies until the face of the die is approximately 17mm (.65 in) above the flange as shown.

Spray the lubricant into the front and rear of the dies as well as into the diffuser hole in the center of the die.

Every 400 crimp cycles, remove the soft protective pads from between the Master Dies and spray lubricant into the spring cavity area.

Be certain to replace the protective pads as dirt and chips can cause permanent damage to the crimping head









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.

PROBLEM: CRIMPER RUNS BUT IS SLOW OR NON-FUNCTIONAL

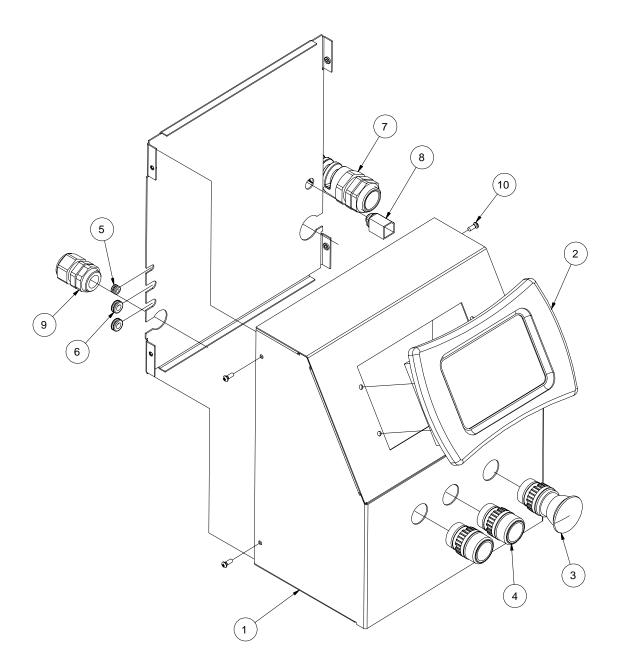
- Check supply voltage to see that it matches the voltage specified on the tag attached to the crimper.
- Check motor rotation and be certain that the motor rotates in the direction of the arrow on the motor housing. For three phase units rotation can be reversed by switching any two wires in the plug.

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

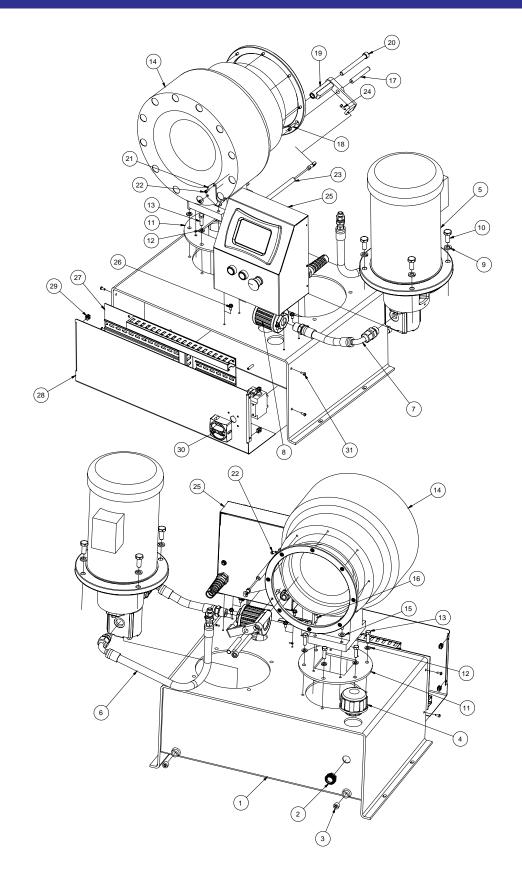
- Fitting is to large for selected crimp die. Select a crimp die that is closer to final crimp diameter. Machine has built-in safety by-pass to protect internal components from damage due to incorrect die selection.
- Check oil level. Position dies to the fully open position and check oil sight gage 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.

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



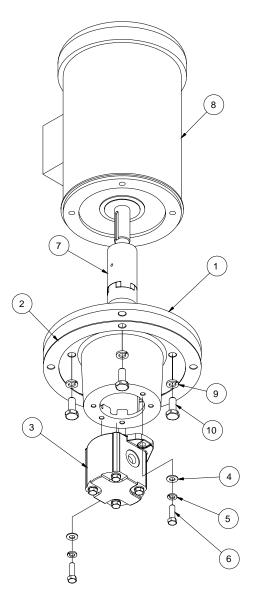


	PLC Housing Assembly (101732)			
Item	Part Number	Description	Qty	
1	101538	PLC Housing	1	
2	EZ-420	PLC Display	1	
3	E22LLB2B/E22B1	Emergency Stop Switch	1	
4	E22PB3A	Pushbutton Switch	2	
5	9600K11	Grommet - 1/8"	1	
6	9600K24	Grommet - 1/4 "	2	
7	69915K65	Cable Strain Relief	1	
8	502-N-111	Foot Pedal Jack W/Nut	1	
9	69915K57	Cable Strain Relief	1	
10	92949A144	6-32 X 1/4 BHCS	4	



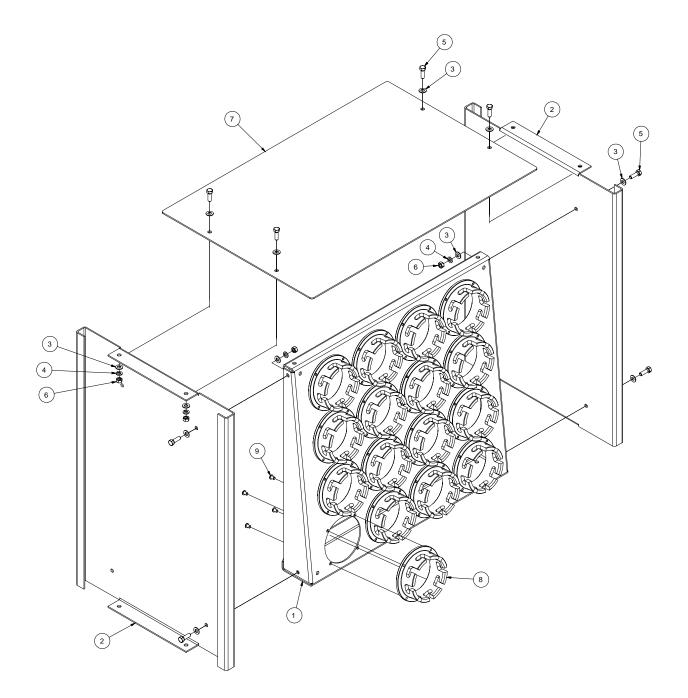
Item	Part Number	Description	Qty
1	101537	CC Crimper Reservoir	1
2	1116K22	Sight Glass Assembly	1
3	4534K43	3/8-18 NPTF Hex Socket Pipe Plug	2
4	ABS-40FillerAssy	Vented Cap Filler Neck	1
5	101715	CC38 Pump/Motor Assembly	1
5	101714	CC60/CC4-50 Pump/Motor Assembly	1
6	101734	Output Hose Assembly	1
7	101733	Suction Strainer Hose Assembly	1
8	SS-008P012	Suction Strainer	1
9	91102A033	1/2 Lock Washer	4
10	92865A714	1/2-13 X 1 1/4 Hex Bolt	4
11	101537-04	CC38 Intermediate Plate	1
11	101537-05	CC60/CC4-50 Intermediate Plate	1
12	91102A031	3/8 Lock Washer	6
13	92865A626	3/8-16 X 1 1/4 Hex Bolt	6
14	101548	CC38 Head/Manifold Assembly	1
14	101550	CC60 Head/Manifold Assembly	1
14	101833	CC4-50 Head/Manifold Assembly	1
15	90126A031	3/8 Flat Washer	4
16	91310A536	M8-1.25 X 40mm Hex Bolt - Class 10.9	4
17	101689	Anti-Rotation Guide Pin	1
18	91253A542	1/4-20 X 1 HSFHS	1
19	101790	CC38 Potentiometer Bracket	1
19	101688	CC60 Potentiometer Bracket	1
19	101836	CC4-50 Potentiometer Bracket	1
20	M10-1.5 X 120	CC38 M10-1.5 X 120mm SHCS	1
20	91290A643	CC60/CC4-50 M12-1.75 X 120mm SHCS	1
21	101687	Potentiometer Mounting Plate	1
22	91290A228	M5-0.8 X 12mm SHCS - Class 12.9	3
23	101719	Linear Position Sensor	1
24	91290A230	M5-0.8 X 14mm SHCS - Class 12.9	1
25	101732	PLC Housing Assembly	1
26	92323A512	1/4-20 X 1/2 SHFCS	4
27	101599	Electrical Panel	. 1
28	101537-03	Reservoir Front Cover	1
29	98065A135	10-32UNF Spring Clip Nut	4
30	6759K23 (Yel/Red)	Main Disconnect Switch	1
31	91255A265	10-32 X 1/2 BHCS	4

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	CC3	CC38 (101715) / CC60 & CC4-50 (101714) Pump/Motor Assembly			
	Item	Part Number	Description	Qty	
	1	101539	Mounting Flange	1	
	2	101539-01	Flange Gasket	1	
	3	101713	8cc Gear Pump	1	
*	3	101542	11cc Gear Pump	1	
	4	90126A031	3/8 Flat Washer	2	
	5	91102A031	3/8 Lock Washer	2	
	6	92865A626	3/8-16 X 1 1/4 Hex. Bolt	2	
	7	101543	Shaft Coupling	1	
	8	101541	5 HP - 220V Motor	1	
*	8	101540	7.5 HP - 220V Motor	1	
	9	91102A033	1/2 Lock Washer	4	
	10	92865A714	1/2-13 X 1 1/4 Hex. Bolt	4	

* Substitute These Components On CC60/CC4-50 Assembly



	CC Crimper Table Assembly (101755)			
Item	Part Number	Description	Qty	
1	101244	Die Panel	1	
2	101246	End Panel	2	
3	90108A030	5/16 Flat Washer	16	
4	91102A030	5/16 Lock Washer	8	
5	92865A581	5/16-18 X 1 Hex Bolt	8	
6	95462A030	5/16-18 Hex Nut	8	
7	101754	CC Crimper Table Top	1	
8	101242	99MM Die Holder	16	
8	101243	84MM Die Holder	16	
9	91255A535	1/4-20 X 3/8 BHCS	64	

NOTES