

STANLEY®

IBC600 6-TON IN-LINE CUTTING & CRIMPING TOOL



USER MANUAL Safety, Operation and Maintenance



© 2017 STANLEY Black & Decker, Inc.
New Britain, CT 06053
U.S.A.
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IMPORTANT

To fill out a product warranty validation form and for information on your warranty, visit www.stanleyinfrastructure.com and select the Company tab > Warranty.

Note: The warranty validation record must be submitted to validate the warranty.

SERVICING: This manual contains safety, operation and routine maintenance instructions. STANLEY Infrastructure recommends that servicing of hydraulic tools, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.

⚠ WARNING

SERIOUS INJURY OR DEATH COULD RESULT FROM THE IMPROPER REPAIR OR SERVICE OF THIS TOOL.

REPAIRS AND / OR SERVICE TO THIS TOOL MUST ONLY BE DONE BY AN AUTHORIZED AND CERTIFIED DEALER.

For the nearest certified dealer, call STANLEY Infrastructure at (503) 659-5660 and ask for a Customer Service Representative.

SAFETY PRECAUTIONS

Tool operators must comply with precautions given in this manual and on the stickers attached to the tool.

These precautions are given for your safety. Review them carefully before operating the tool.

Supervising personnel should develop additional precautions relating to the specific work area and local safety regulations. Place the added precautions in the space provided.

The IBC600 6-Ton In-line Cutting & Crimping Tool will provide safe and dependable service if operated in accordance with the instructions in this manual. Read and understand this manual and stickers attached to the tool before operation. Failure could result in injury or tool damage.



- Use the tool in a work area without bystanders.
- Do not operate the tool unless thoroughly trained or under the supervision of an instructor. Establish a training program for all operators to ensure safe operation.
- Always wear safety equipment such as eye protection, ear protection, head protection and safety shoes at all times when operating the tool. Use gloves if necessary.
- The operator must be familiar with all prohibited work areas such as excessive slopes and dangerous terrain conditions. Ensure that your footing is firm and you are in balance at all times.
- Do not inspect, clean or replace IBC600 jaws while the battery is connected. Accidental engagement of the tool can cause serious injury.
- Do not operate a damaged, improperly adjusted or incompletely assembled tool.
- Never wear loose clothing that can become entangled in the working parts of the tool.
- Keep all parts of your body away from pinch points. Long hair or loose clothing can become drawn into the tool.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must be performed by an authorized service center.
- Never use the tool in the vicinity of flammable materials or gases.
- Do not use the tool or charge the tool battery in an explosive atmosphere.
- Cutting or severing of body parts is possible if proper procedures are not followed.
- Do not use the tool, battery or battery charger for purposes other than what is described in this manual.

- Always keep critical tool markings, such as labels and warning stickers, legible. Contact STANLEY for replacement labels.
- Do not use the tool while under the influence of drugs or alcohol.
- Do not use accessories or attachments other than those recommended by STANLEY.

BATTERIES

- Only charge batteries using a STANLEY recommended battery charger.
- Do not store batteries with metal objects, such as coins, nails or keys. Fire can result if battery terminals are shorted.
- Do not charge a damaged battery. Recycle and replace damaged batteries with batteries recommended by STANLEY.
- Do not incinerate or dispose of batteries in the garbage. Recycle the batteries.
- Do not expose the battery to temperatures over 265°F. Batteries may explode at high temperatures.
- Leakage of liquid from the battery may occur under extreme use or high temperatures. If battery liquid gets on your skin:
 1. Wash quickly with soap and water.
 2. If the liquid gets in your eyes, flush your eyes with clean water for 10 minutes. Seek medical attention immediately.
- Never open the battery.

BATTERY CHARGER

- Do not use the battery charger if the cord is damaged.
- Do not place the charger, or set items on or near the charger, in such a way as to block airflow to the charger.
- Do not use the charger with an extension cord unless absolutely necessary. Use a cord with the proper wire size for its length, as described in Table 1.

Length of Cord (Feet)	25	50	100	150
Wire Size (AWG)	18	18	18	16

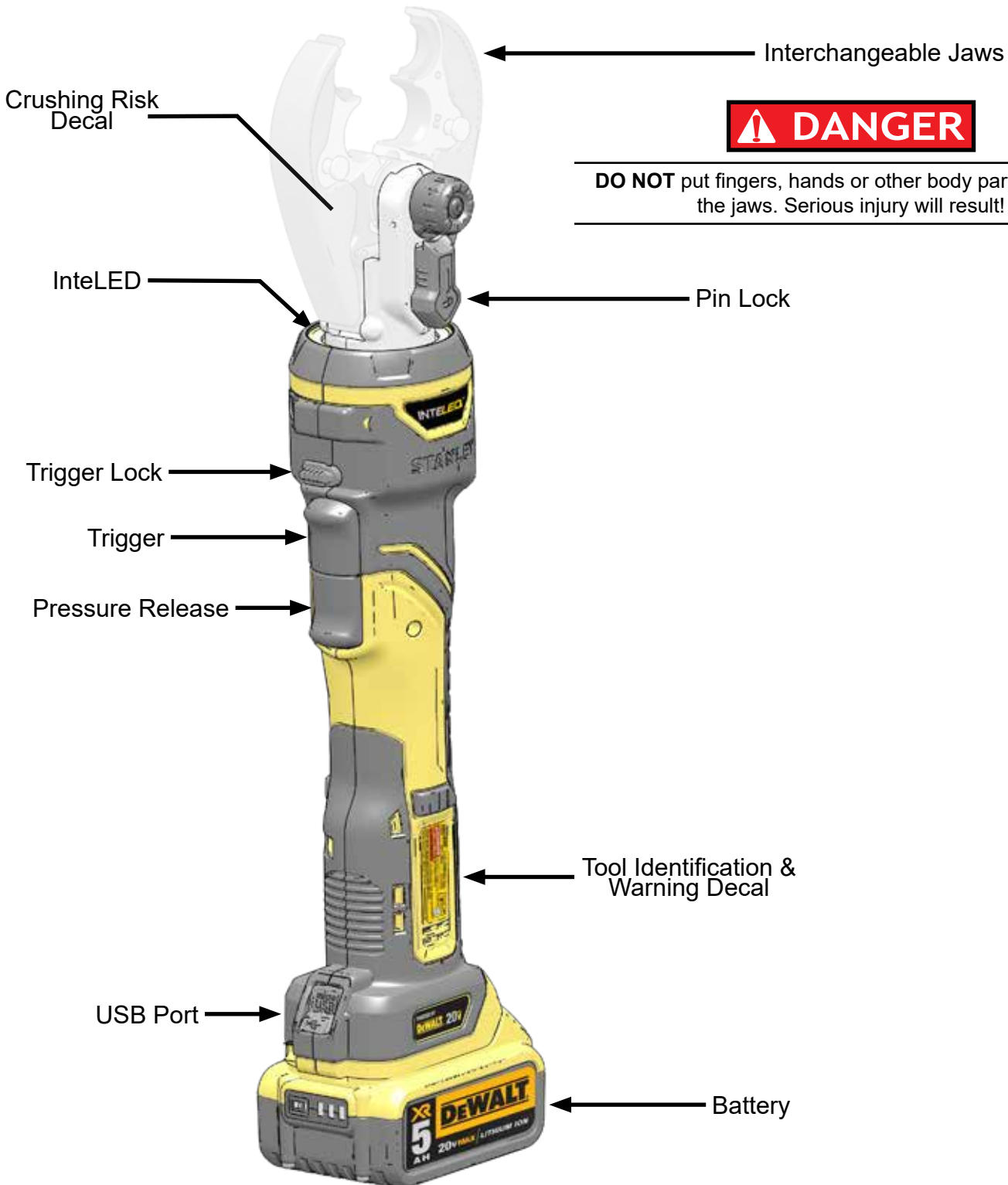
Table 1: Extension Cord Wire Size

- Do not open the charger or attempt to modify it in any way.
- Disconnect the charger from power before attempting to clean it.
- Do not connect the charger to a transformer or engine generator.

TOOL ANATOMY

WHAT IS THE IBC600?

The IBC600 is a battery powered 6-Ton in-line cutting & crimping tool with interchangeable jaws. IBC600 is capable of crimping copper and aluminum connectors to 500 MCM and HTAPS to 4/0-4/0. The ACSR cutting jaws are capable of cutting cable up to 477 MCM Flicker. It can also cut copper and aluminum cable up to 500 MCM. The EHS cutting jaws are capable of cutting up to 3/8 Inch guy wire.



SPECIFICATIONS & ACCESSORIES

SPECIFICATIONS

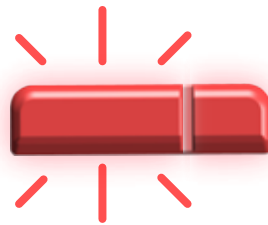
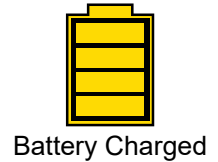
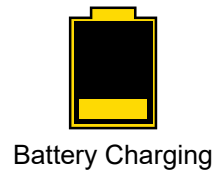
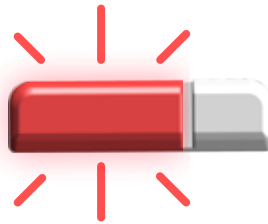
Force	6 Tons (53 kN)
Tool Cycle Time	4.5 seconds
Crimping Capacity	Copper/aluminum connectors to 500 MCM HTAPS to 4/0-4/0
Cutting Capacity	ACSR cable up to 477 MCM Flicker copper/aluminum cable up to 500 MCM (Using ACSR cutting jaw) Up to 3/8 Inch Guy Wire (Using EHS cutting jaw)
Battery Type	DeWalt 20V Max (2 Amp/hour or 5 Amp/hour)
Estimated Cycles per Charge	200 (2 Amp/hour), 450 (5 Amp/hour)
Tool Weight	
with 2 Amp/hour battery	7.15 lbs.
with 5 Amp/hour battery	7.70 lbs.
Tool Length	18.8 Inches (2 Amp/hour batt.) 19.6 Inches (5 Amp/hour batt.)
Maintenance Interval	Every 30,000 Cycles

ACCESSORIES

D3/O Jaw	92821
(Accepts standard "W" dies)	
D3/BG Jaw	92822
(Accepts standard "W" dies)	
Kearney/BG Jaw	92823
(Accepts Kearney and "W" dies)	
ACSR Cutting Jaw	92892
Replacement ACSR Blade Kit	82604
EHS Cutting Jaw	94814
Replacement EHS Blade Kit	82878
2 Amp/hour DeWalt 20V Max Battery	81187
5 Amp/hour DeWalt 20V Max Battery	81188
120V AC Charger	81189
12V DC Charger	DCB119
Note: Only use battery chargers recommended by STANLEY.	
Bucket Bag	BB01

OPERATION

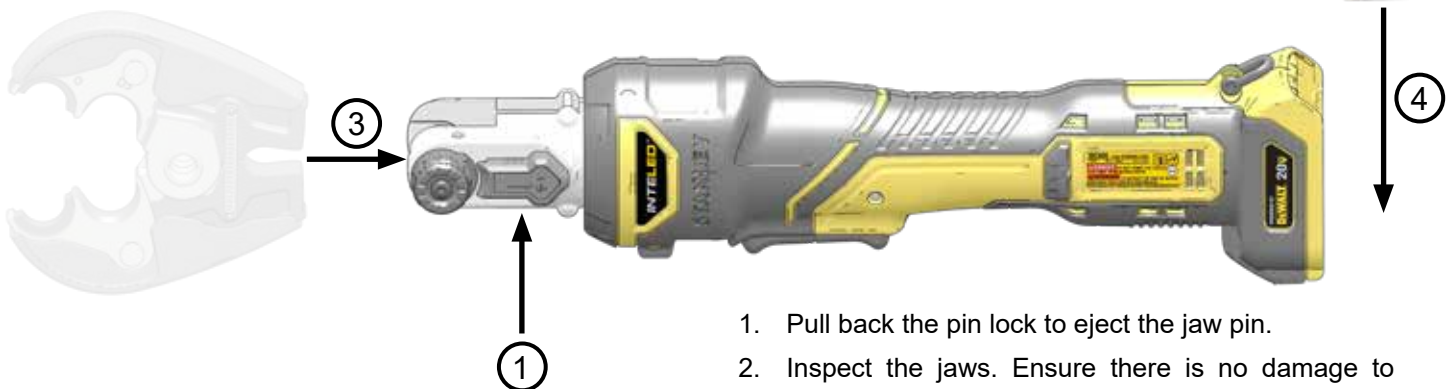
CHARGE BATTERY



INSTALL JAW AND BATTERY

⚠ DANGER

DO NOT install or change jaws while the battery is connected to the tool. Disconnect the battery **BEFORE** installing or changing jaws.



1. Pull back the pin lock to eject the jaw pin.
2. Inspect the jaws. Ensure there is no damage to the jaw or cutting blades. Replace jaw if damage is found.
3. Insert the jaw and lock the jaw pin.
4. Insert the battery pack.

OPERATION

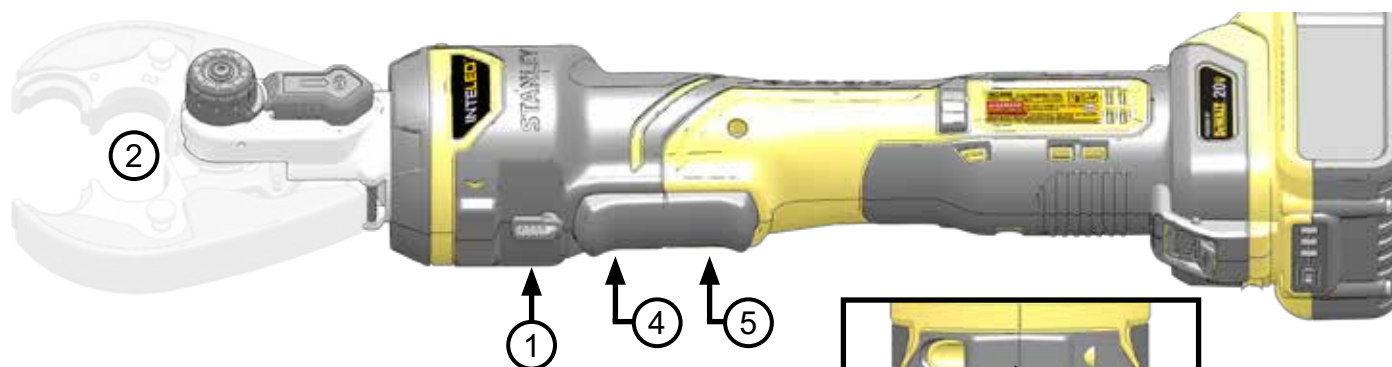
SET THE TOOL MODE

IBC600 uses two modes of operation, one for crimping and one for cutting. By default, IBC600 is in cutting mode.

To change modes:

1. Activate the tool, using the trigger, 4 times in less than 1 second.
2. InteLED will shine yellow for cutting mode or purple for crimping mode.

TOOL USE



1. Set the Trigger Lock

⚠ DANGER

Set the trigger lock **BEFORE** attaching dies to the jaw!



Figure 1: Lock the Trigger

2. If crimping, clip the die onto the jaw. If cutting, fit the cutting jaw around the cable to be cut, placing the cable at the bottom of the blades.

⚠ DANGER

DO NOT crimp or cut live cables! IBC600 is **NOT** a live-line tool!

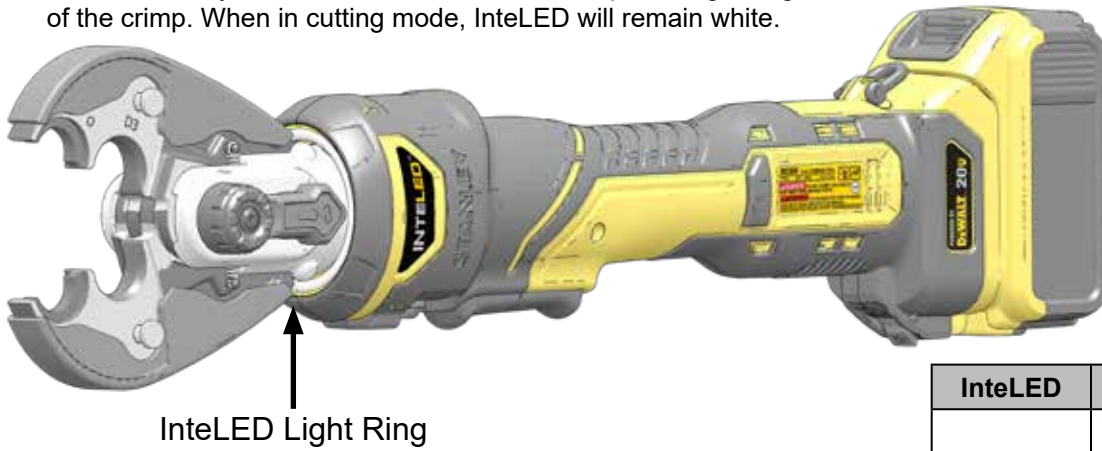
3. Release the Trigger Lock.
4. Press and hold the trigger until the tool has finished.
5. Press and hold the pressure release.

Note: Release the trigger to immediately stop the tool. Press the pressure release at any time to open the jaws.

OPERATION

INTELED SYSTEM

The InteLED system shows the status of a crimp. The light ring will shine different colors depending on the status of the crimp. When in cutting mode, InteLED will remain white.

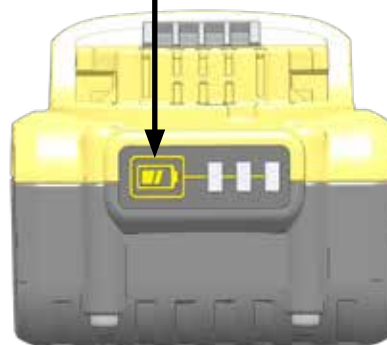


InteLED	Meaning
White	Tool is cycling. InteLED will stay lit for 30 seconds after a cycle is complete.
Green	The crimp is good.
Red	IBC600 did not reach full pressure. Cycle again.

CHECKING BATTERY CHARGE



Battery Check Button



75 - 100% Charged



51 - 74% Charged



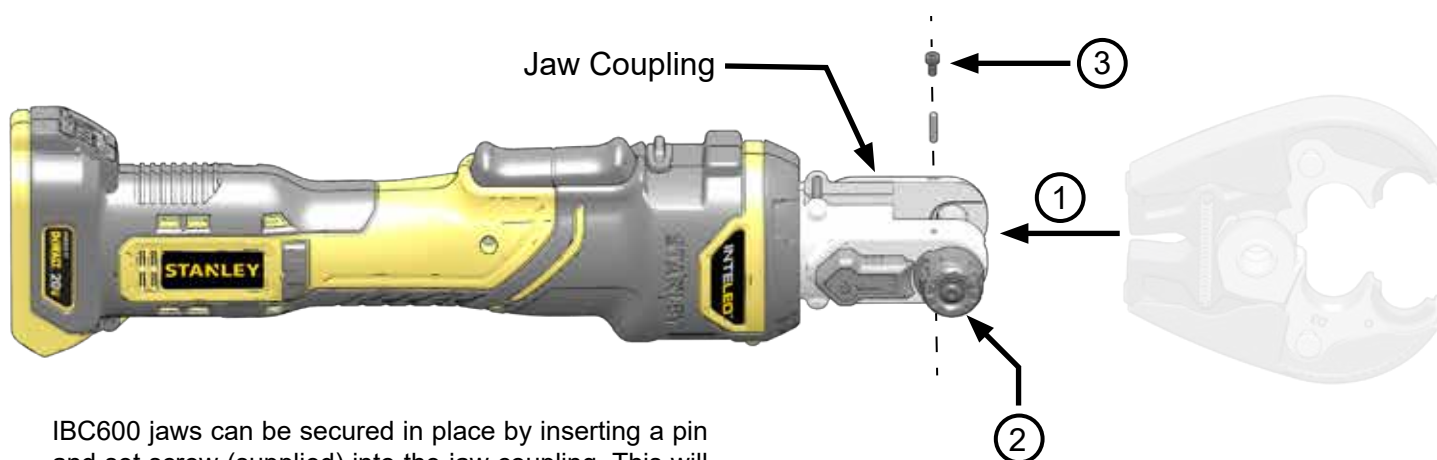
Less than 50% Charged



Charge Battery

OPERATION

SECURE THE JAWS INTO PLACE (OPTIONAL)



IBC600 jaws can be secured in place by inserting a pin and set screw (supplied) into the jaw coupling. This will prevent the user from ejecting the jaw pin and removing the jaws.

1. Set the trigger lock and insert the jaws.
2. Lock the jaw pin into place.
3. Insert the pin and set screw to lock the jaw pin.

STANLEY CRIMP SOFTWARE

STANLEY Crimp software provides valuable data about each crimp. It is also required to update the tool firmware.

INSTALLATION

1. Download the STANLEY Crimp software from the STANLEY Infrastructure website.

www.stanleyinfrastructure.com/products/cordless-td

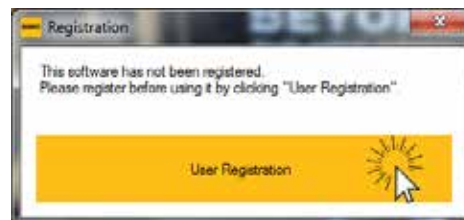
Note: STANLEY Crimp software requires a minimum of Windows XP SP3 running with administrator rights.

2. Follow the prompts to complete installation.
3. Connect IBC600 to a PC using a micro USB cable.

Note: InteLED will shine blue when connected.

FIRST RUN

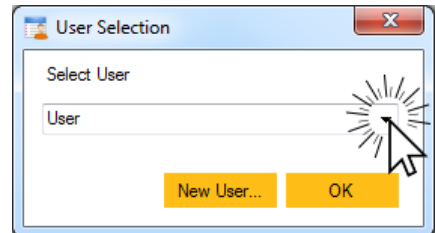
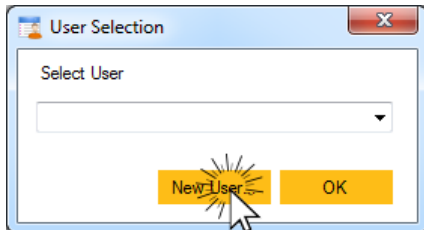
1. Run the software using the STANLEY Crimp software icon on your Windows desktop.
2. You will be prompted to register your software. Left click the "User Registration" button.
3. Fill out the registration form and click the "Register" button.



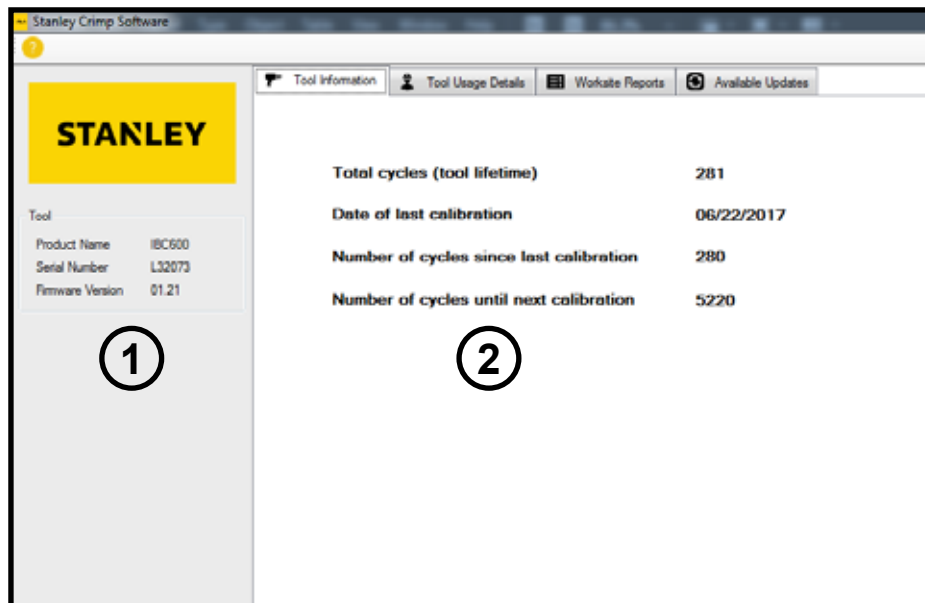
OPERATION

USER SELECTION

1. Click the “New User” button.
2. Enter the required user information and click “Create”.
3. Select a user and click “OK”.



TOOL INFORMATION



The Tool Information tab displays important data about the IBC600.

1. Displays the product type, serial number and firmware version of the tool.
2. Basic data relating to the life and service interval of the tool.

OPERATION

TOOL USAGE DATA

Stanley Crimp Software

STANLEY

Tool
Product Name: IBC600
Serial Number: L32073
Firmware Version: 01.21

Tool Cycles (number of cycles)

Total	280	Show only since last calibration	<input type="checkbox"/>
Cycle Complete	222	Show only calibration cycles	<input type="checkbox"/>
Cycle Not Complete	58	Show only not complete cycles	<input type="checkbox"/>

Time Stamp	Cycle Complete	Current (Amps)	Voltage (V)	Temperature (F/C)
06/21/2017 22:48	Yes	13.3	19.2	37 / 3
06/21/2017 23:41	Yes	16.4	19.4	80 / 27
06/21/2017 23:42	Yes	15	19.4	80 / 27
06/21/2017 23:43	No	16.2	19.3	80 / 27
06/21/2017 23:43	Yes	16.7	19.3	80 / 27
06/21/2017 23:43	Yes	16.1	19.3	80 / 27
06/21/2017 23:43	No	16.5	19.3	80 / 27
06/21/2017 23:43	Yes	16.4	19.3	80 / 27
06/21/2017 23:43	No	16.1	19.3	80 / 27
06/22/2017 00:01	No	14.3	19.4	80 / 27
06/22/2017 23:50	No	14.8	19.5	80 / 27
06/22/2017 23:50	Yes	18.7	19.5	86 / 30
06/22/2017 23:50	Yes	19.3	19.6	84 / 29
07/31/2017 17:02	Yes	19.3	20.2	86 / 30
08/04/2017 09:01	Yes	15.5	20.1	82 / 28
08/04/2017 09:01	No	15.9	20.1	82 / 28

The Tool Usage Data tab displays information about individual tool cycles.

1. Displays the total number of tool cycles, as well as completed and non-complete cycles.
2. The data log shows each cycle, up to 250,000 cycles. Each entry into the log includes;
 - Date and time of each crimp
 - If the cycle completed successfully
 - Amperage and Voltage of the tool during each crimp
 - Tool temperature at the end of each crimp
3. Data log sorting filters. Allows you to sort the crimp data in the data log.

WORKSITE REPORTS

Stanley Crimp Software

STANLEY

Tool
Product Name: IBC600
Serial Number: L32073
Firmware Version: 01.21

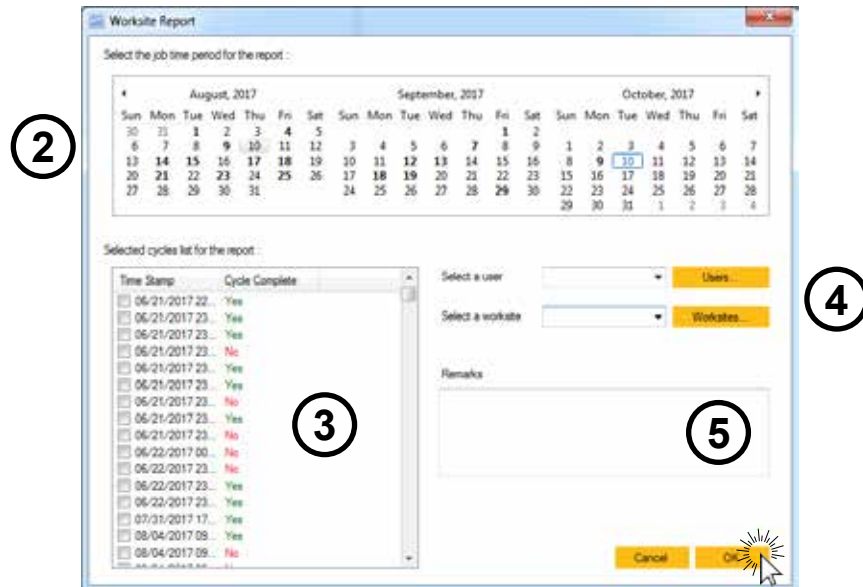
Worksite Reports

Worksite	Tool	Serial Number	Version	Date	Total	Complete	Not Complete
----------	------	---------------	---------	------	-------	----------	--------------

1 Create Report
Delete Report
Print Report to PDF

OPERATION

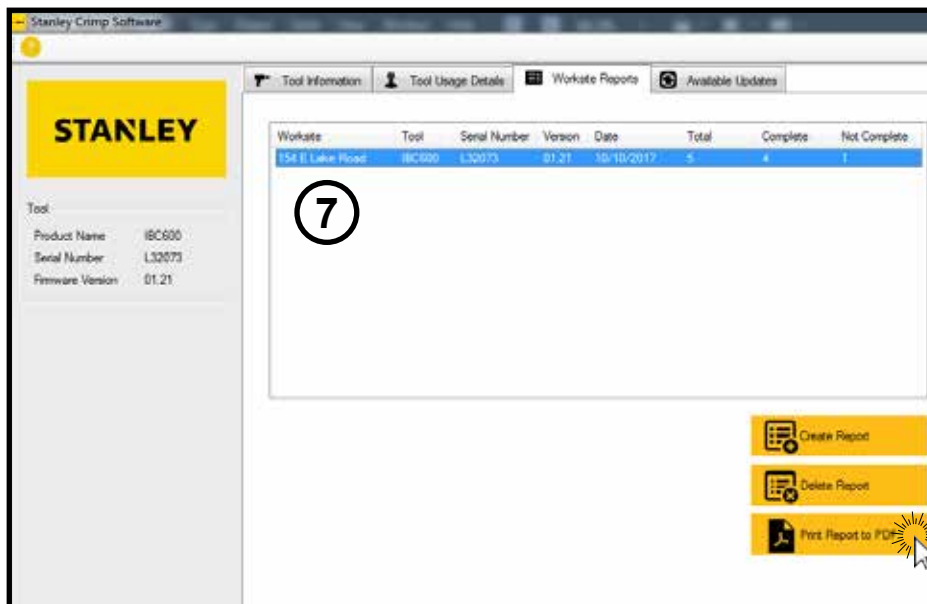
The Worksite Reports tab allows you to group data log entries into a complete tool cycle report.



1. Click “Create Report”.
2. Select the date range of the job you are reporting.
3. Select the crimp cycles you want to include in the report.
4. Select a user and a worksite.

Note: If this is the first time using the software, press the “Worksites” button to create a worksite.

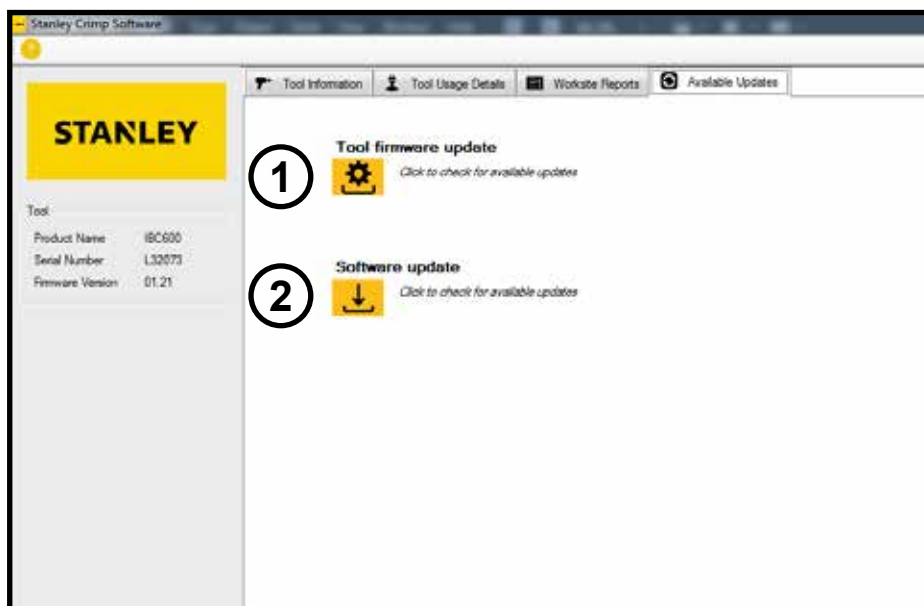
5. Enter notes about the job in the Remarks field.
6. Click “OK” when finished.



7. Select a report from the reports list.
8. Click “Print Report to PDF” to export the Worksite Report.

OPERATION

AVAILABLE UPDATES



The Available Updates tab will allow you to update the tool firmware and update STANLEY Crimp software.

1. Tool Firmware Update button. When clicked, this will begin to tool firmware update process. Do not unplug the tool during this process.
2. Software Update button. When clicked, this will update the STANLEY Crimp software, if an update is available.

TROUBLESHOOTING

Problem	Solution
The jaws wont open.	Check for debris in or near the roller assembly. See “IBC600 Parts Illustration” on page 18.
I can't install the jaw / The jaw doesn't fit into the tool body.	Press and hold the pressure release to fully retract the piston. Insert the jaw into the tool body.
The jaw pin won't fit through the hole in the jaw.	Remove the jaw. Ensure the two halves of the jaw are aligned.
The jaw pin wont spring back, even though I am pulling back on the pin lock.	Ensure that the jaw locking hardware is removed (see page 11). Press and hold the pressure release to fully retract the piston. Pull back on the pin lock to eject the jaw pin.
The tool won't cycle when I press the trigger.	Ensure the battery is charged. Disengage the trigger lock.
	Thermal overload has been triggered. Remove the battery and wait for tool to cool. Ensure you do not cycle the tool more than 100 times every 30 minutes.
The InteLED flashes yellow when I activate the tool.	The maintenance interval is about to elapse. Have the tool serviced as soon as possible.
The tool repeatedly gives me bad crimps / The InteLED flashes red after every crimp.	Ensure the battery is fully charged. Ensure the crimping jaw is properly installed and the die is properly attached. If problem persists, have the tool serviced as soon as possible.
The tool will not release pressure when the pressure release is held.	Have the tool serviced immediately.
The tool is leaking hydraulic oil.	Have the tool serviced immediately.
The tool cannot connect to STANLEY Crimp software.	Ensure the tool is connected to the computer via the USB port and that InteLED is blue. Your computer may be downloading USB drivers. Check the Windows system tray for download progress.
The tool is not saving crimp data.	Have the tool serviced as soon as possible.

MAINTENANCE

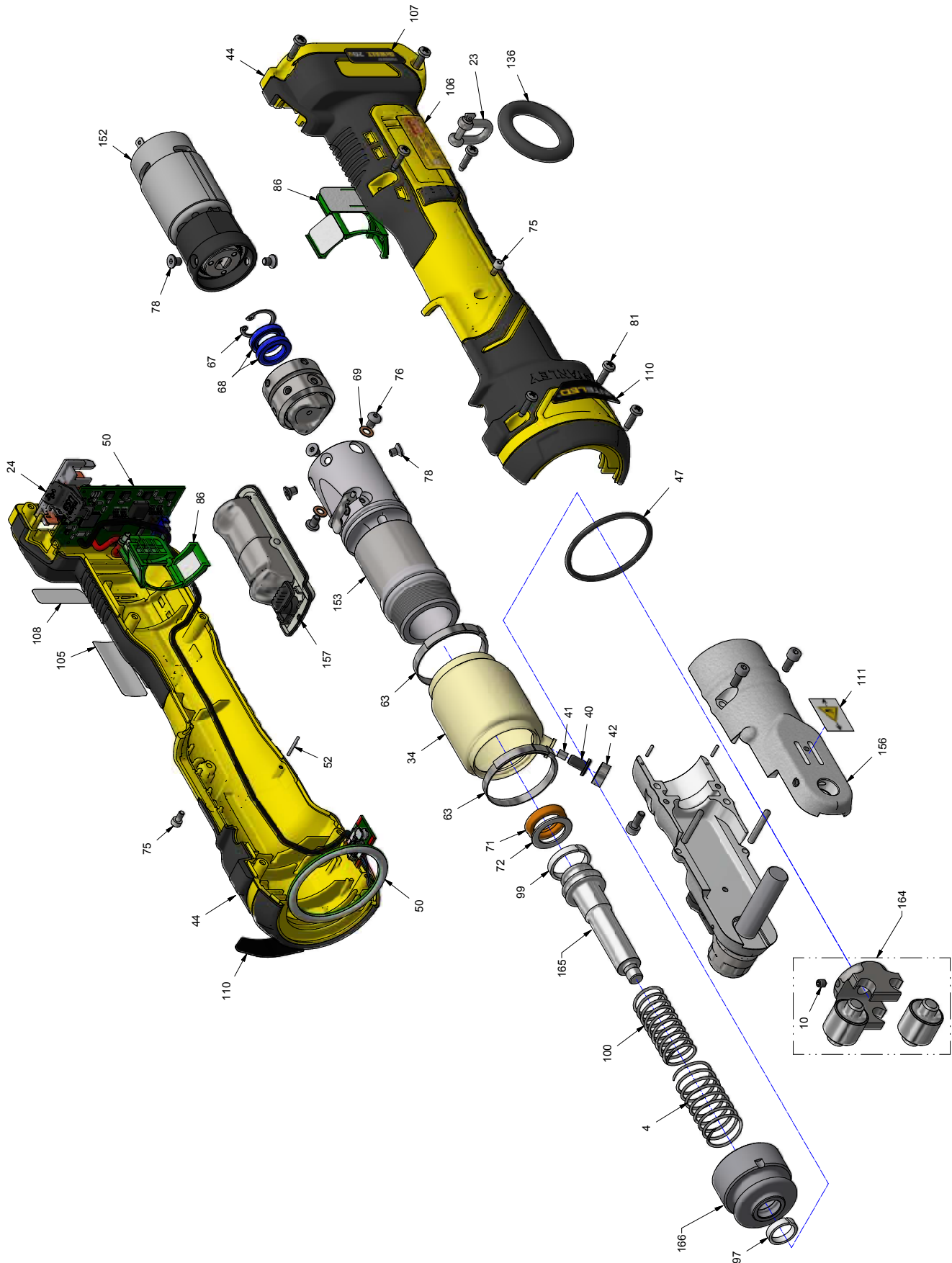
DAILY MAINTENANCE

1. Remove the battery.
2. Clean the tool.
3. Clean the jaws.
4. Inspect the jaws for damage, cracked blades or burs. Replace if damage is found.

CUTTING JAW MAINTENANCE

1. Only use ACSR blades on the ACSR cutting jaw.
2. Only use EHS blades on the EHS cutting jaw.
3. When replacing the blades on the EHS cutting jaw, ensure you properly install the wire support. Cutting performance will be decreased if the wire support is not used.
4. Always replace cutting blades as a set.
5. Never use the cutting jaws without the shoe installed. The blades can break and become projectiles.
6. Replace jaws every 20,000 cycles.

IBC600 PARTS ILLUSTRATION

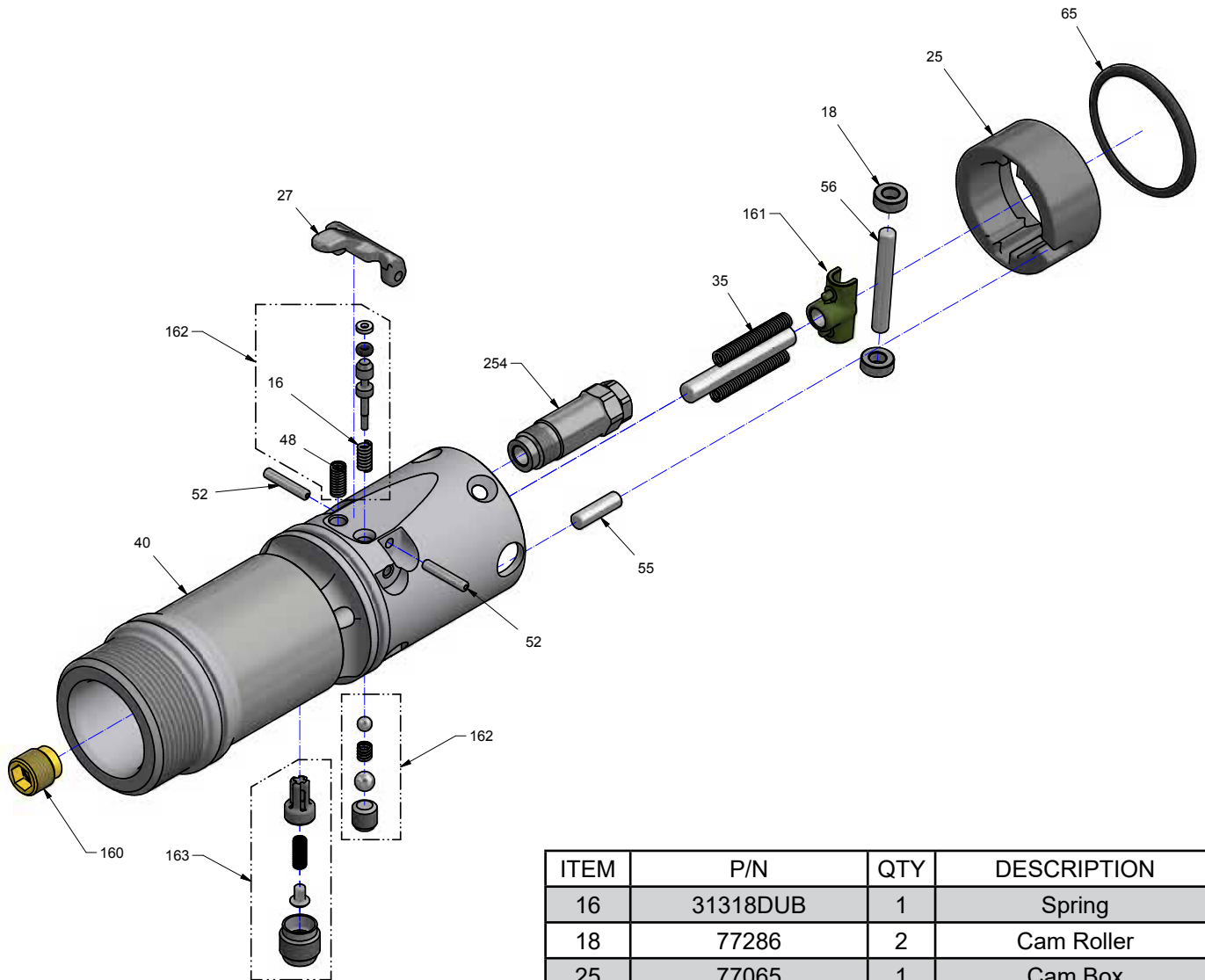


IBC600 PARTS LIST

ITEM	P/N	QTY	DESCRIPTION
4	62412DUB	1	Compression Spring
23	77058	1	Shackle (Torque to 2 Nm)
24	91410	1	USB Cover
34	91585	1	Oil Tank
40	91586	1	Oil Tank Plug
41	ZBINA405	1	Magnet Pin
42	91616	1	Metal Clamp
44	91611	1	Housing Set
47	J4450300X70	1	O-Ring 44.5 x 3
50	92878	1	Electronic Device
52	AIG1.5x7.8BR	1	Calibrated Pin
63	91617	2	Metal Clamp
67	AAIN20	1	Circlip
68	JSR122004	2	Lip Seal
69	JBS04.5	2	Sealing Washer
75	VAV03HC006	2	Screw
76	VAV04CB006	4	Screw (Torque to 2 Nm)
78	VAV04FH006	6	Screw (Torque to 2 Nm)
81	VAV3.5TC014ZN	7	Screw
86	91623	2	Membrane Support
100	62411DUB	1	Compression Spring
103	77070	1	Cam Holder
105	91647	1	STANLEY Logo Decal
106	91648	1	IBC600 Decal
107	91634	1	"Powered by DeWalt" Right Decal
108	91635	1	"Powered by DeWalt" Left Decal
110	91636	2	INTELED Right Decal
111	77067	1	Crushing Hazard Decal
113	RBAM12262	1	Pin Stop
136	91465	1	Strap Ring
152	92833	1	Motor and Gearbox Assembly
153	See page 20	1	Hydraulic Body Assembly

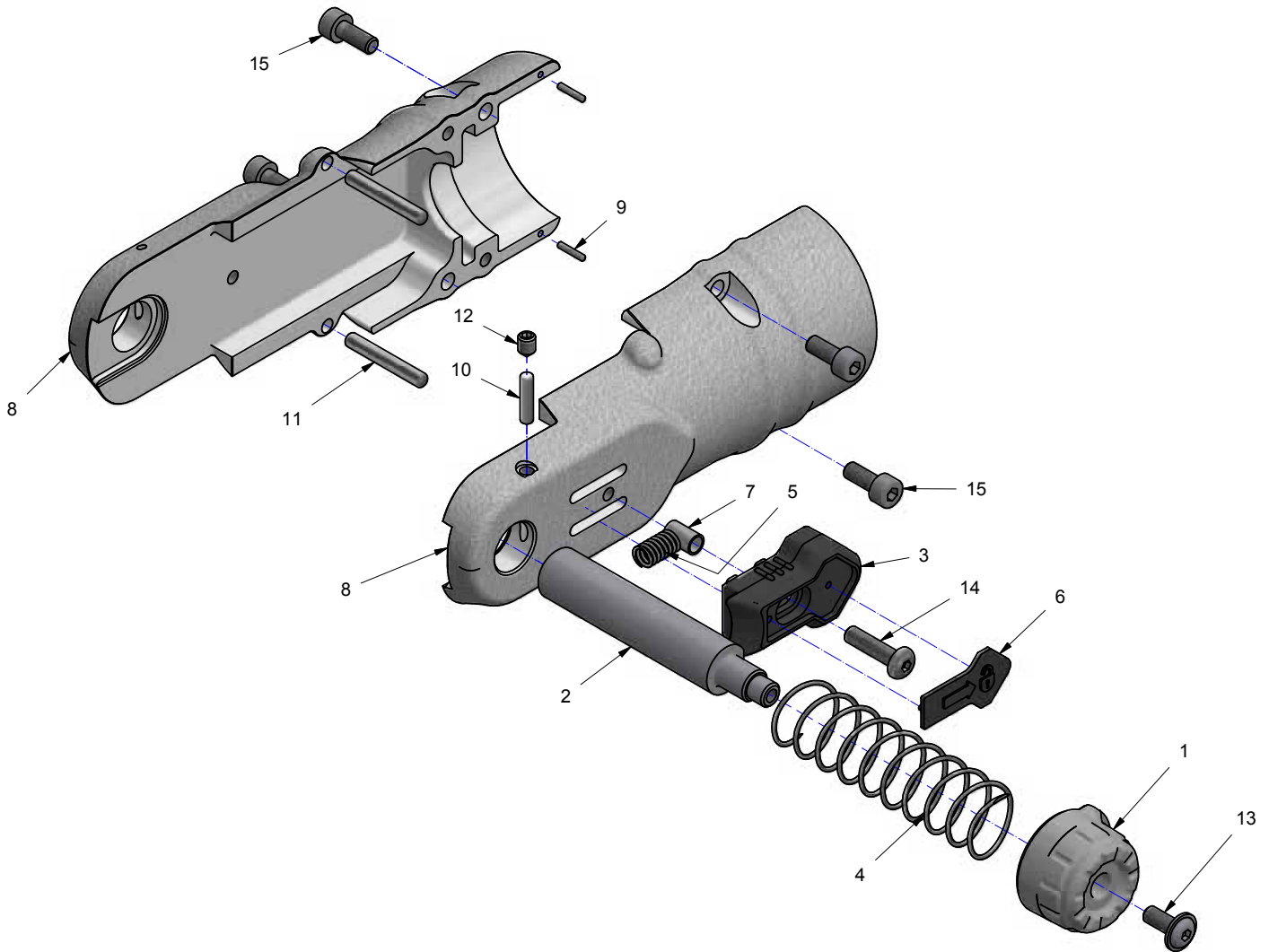
ITEM	P/N	QTY	DESCRIPTION
156	See page 21	1	Head Unit
157	92877	1	Outer Trigger Assembly
164	70884DUB	1	Roller Assembly
165	75147	1	Piston
166	91603	1	Guiding Ring (Torque to 25 Nm)

IBC600 HYDRAULIC BODY ILLUSTRATION



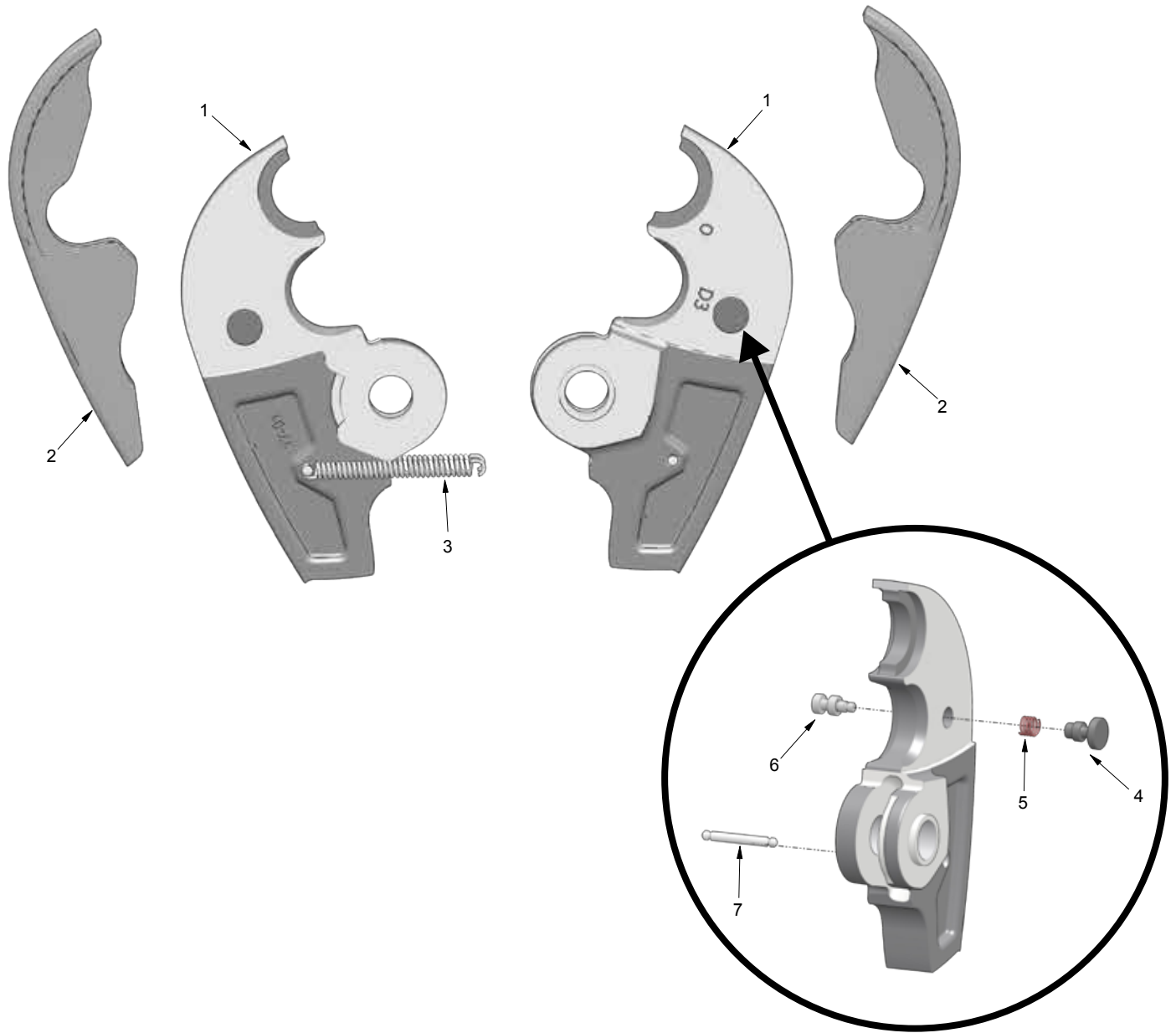
ITEM	P/N	QTY	DESCRIPTION
16	31318DUB	1	Spring
18	77286	2	Cam Roller
25	77065	1	Cam Box
27	91606	1	Release Lever
35	77086	2	Spring
40	91584	1	Hydraulic Body
48	77504	1	Spring
52	AIG2.5X13.8BR	2	Pin
55	AIG4X13.8BP	1	Calibrated Pin
56	AIG4X29.8BP	1	Calibrated Pin
65	J3100200	1	O-Ring 31 x 2
160	77805-01	1	Delivery Valve Unit
161	77076	1	Cross Head
162	77837	1	Pressure release valve (Torque to 6 Nm)
163	77806-01	1	Suction Valve Unit (Torque to 12 Nm)
254	92875-11	1	Valve Unit (Torque to 12 Nm)

IBC600 HEAD UNIT ILLUSTRATION



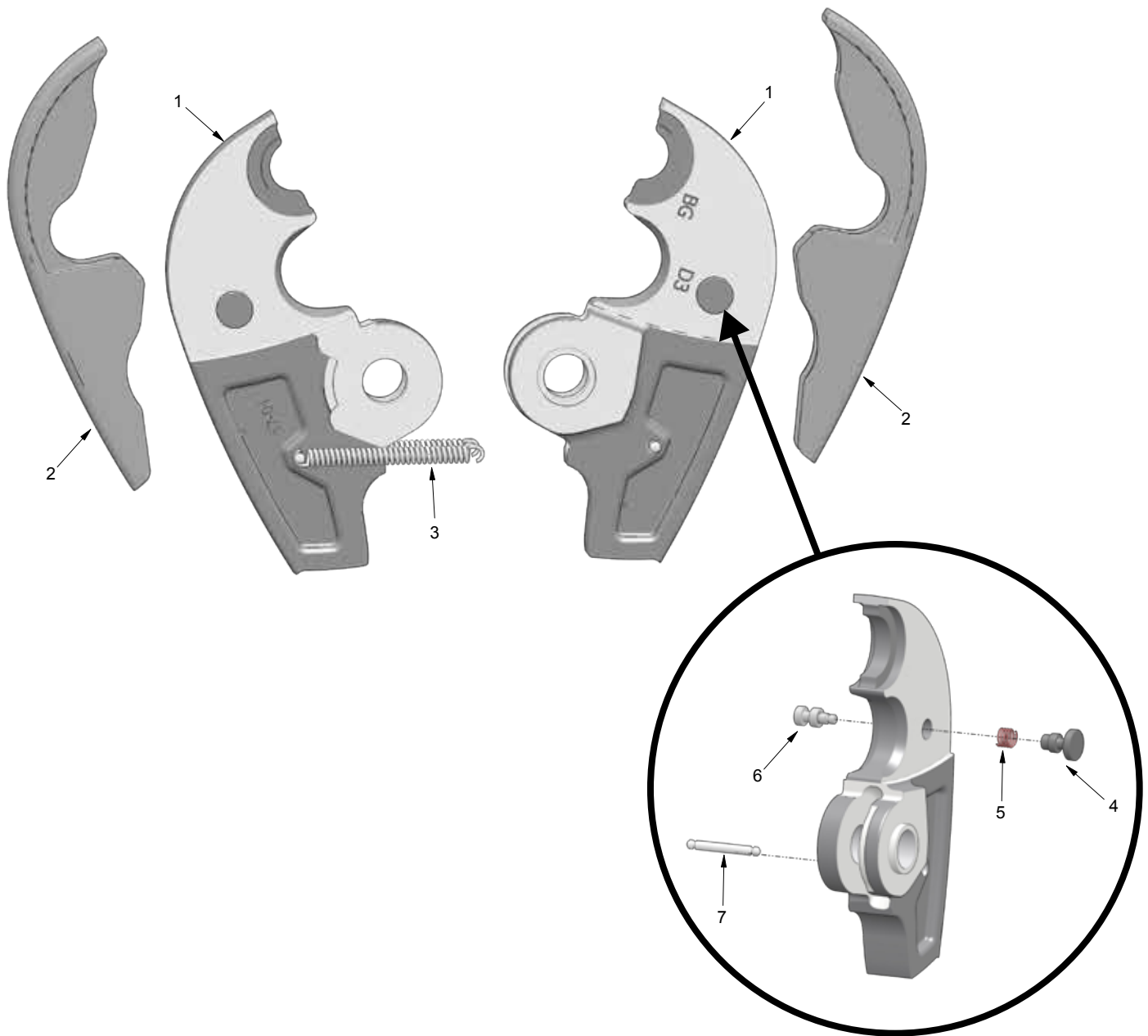
ITEM	P/N	QTY	DESCRIPTION
1	77035-02	1	Toothed Wheel
2	77394	1	Axis for jaws set
3	78476-01	1	Pull Tab
4	78586	1	Spring
5	84015DUB	1	Spring
6	91437	1	Plug
7	91440	1	Spacer Tube
8	91591	2	Half Flange
9	AIG1.5X7.8BR	2	Calibrated pin
10	AIG3x12.8BP	1	Calibrated Pin
11	AIG3.5x23.8BR	2	Calibrated Pin
12	VAV04BT006FF	1	Screw
13	VAV04EB010	1	Screw
14	VAV04CB015	1	Screw
15	VAV04HC010	4	Screw

92821 CRIMPING JAW ILLUSTRATION



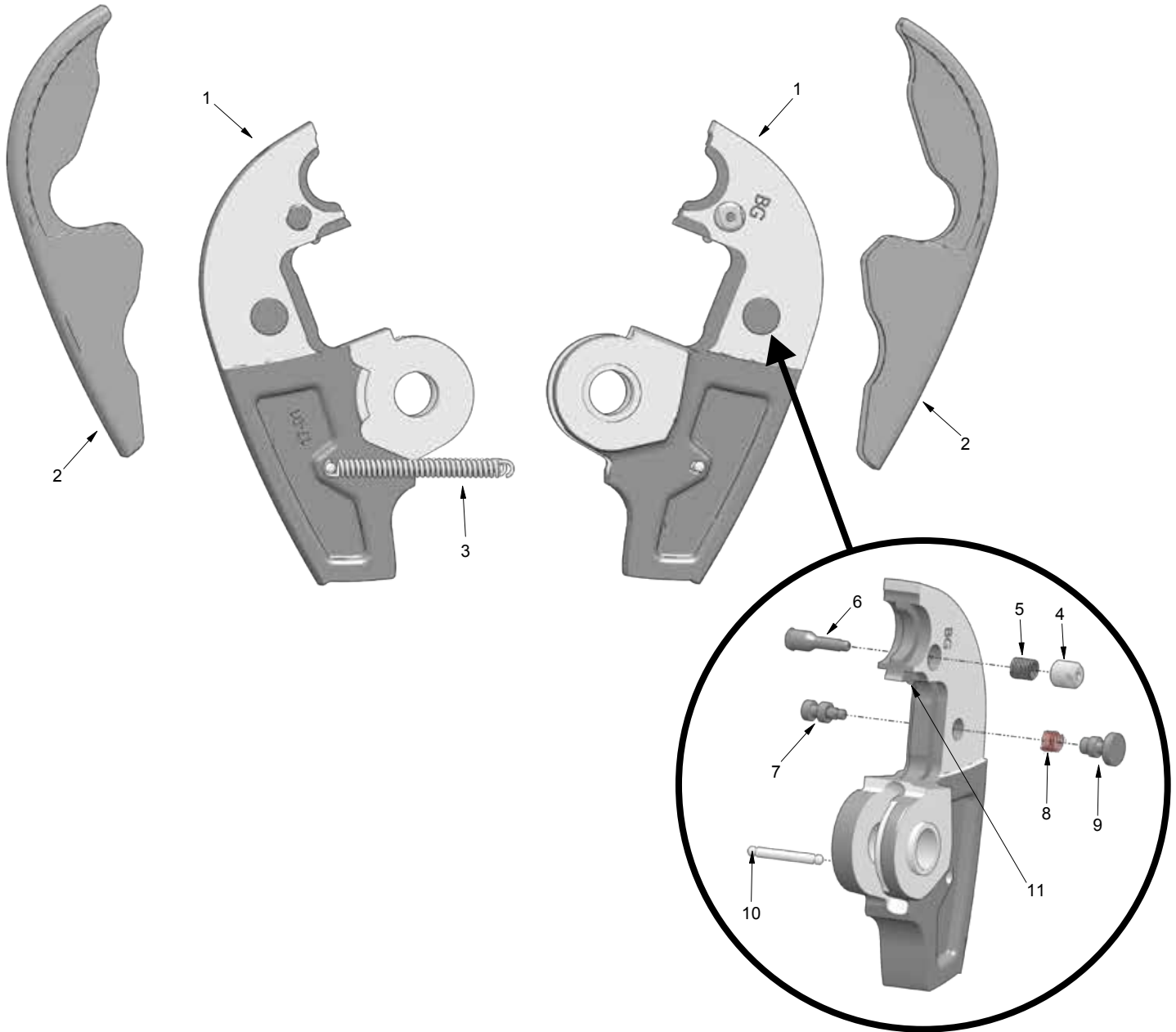
ITEM	P/N	QTY	DESCRIPTION
1	77387	2	Machined Jaw
2	91622	2	Shell
3	62270DUB	2	Jaw Open Spring
4	91589	2	Push Rod
5	91588	2	Spring
6	91590	2	Push Rod Screw
7	91621	2	Spring Pin

92822 CRIMPING JAW ILLUSTRATION



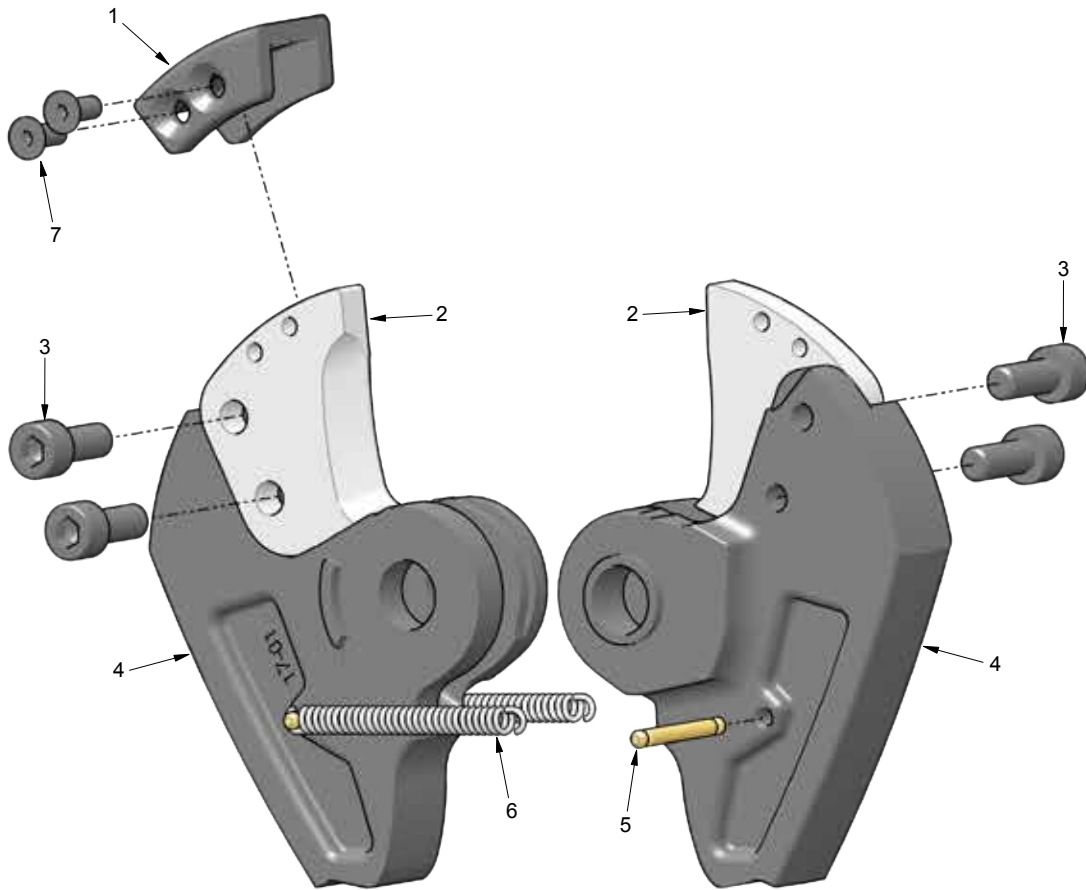
ITEM	P/N	QTY	DESCRIPTION
1	91455	2	Machined Jaw
2	91622	2	Shell
3	62270DUB	2	Jaw Open Spring
4	91589	2	Push Rod
5	91588	2	Spring
6	91590	2	Push Rod Screw
7	91621	2	Spring Pin

92823 CRIMPING JAW ILLUSTRATION



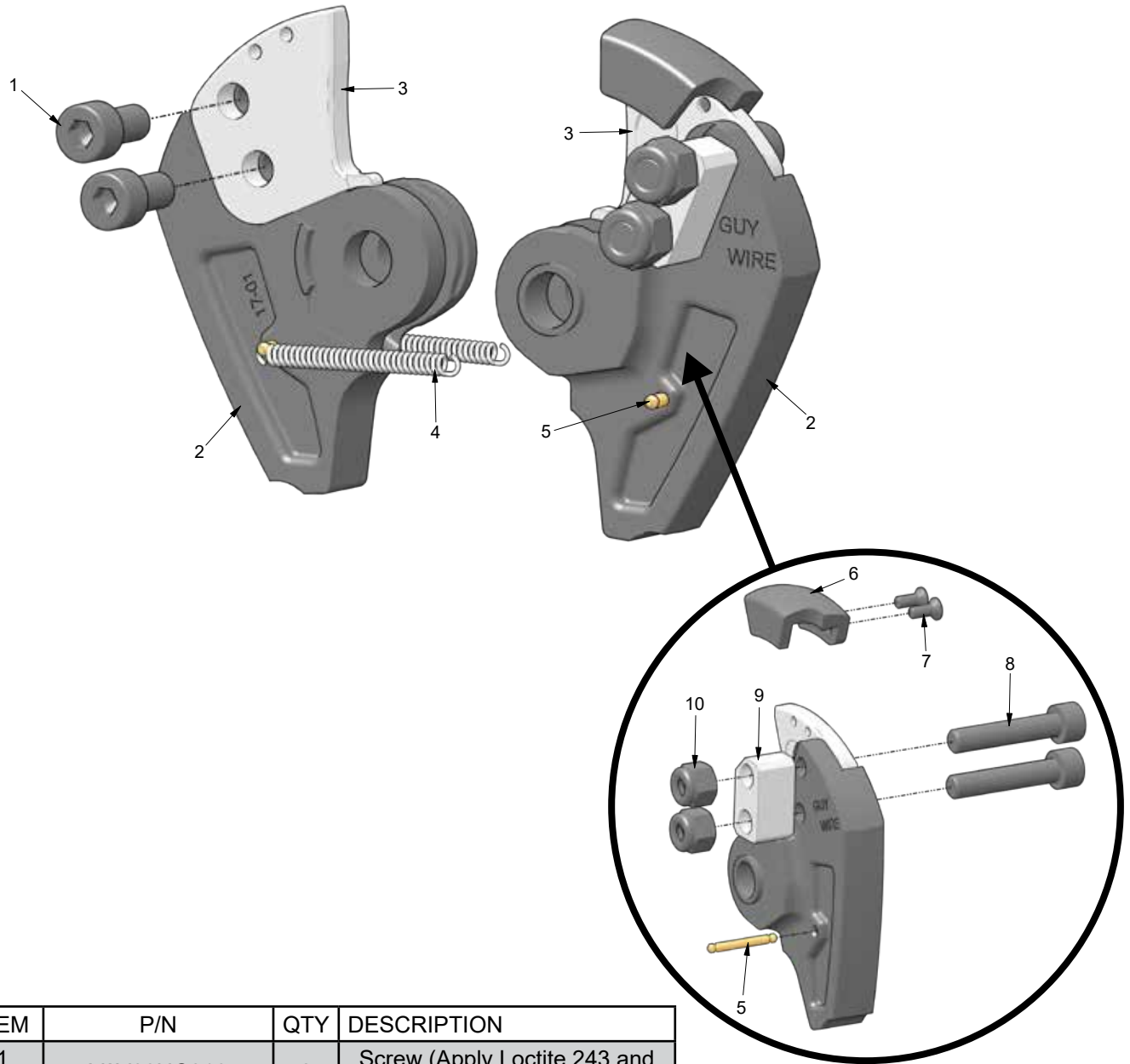
ITEM	P/N	QTY	DESCRIPTION
1	77389	2	Machined Jaw
2	91622	2	Shell
3	62270DUB	2	Jaw Open Spring
4	77418	2	Spring Cap
5	31224DUB	2	Spring
6	77416	2	Axis for Kearney Die
7	91590	2	Push Rod Screw
8	91588	2	Spring
9	91589	2	Push Rod
10	91621	2	Spring Pin
11	77417	2	Pin for Die Lock

92892 CUTTING JAW ILLUSTRATION



ITEM	P/N	QTY	DESCRIPTION
1	91632	1	Blade Guiding Shoe
2	82604	2	Blade Kit - Includes 2 blades, 1 blade guiding shoe and hardware Note: Replace blades as a set.
3	VAV08HC016	4	Screw (Apply Loctite 243 and torque to 35 Nm)
4	91504	2	Jaw Half
5	91621	2	Spring Pin
6	62270DUB	2	Spring
7	VAV04FH010Z	2	Screw (Apply Loctite 243 and torque to 4 Nm)

94814 CUTTING JAW ILLUSTRATION



ITEM	P/N	QTY	DESCRIPTION
1	VAV08HC016	2	Screw (Apply Loctite 243 and torque to 35 Nm)
2	93170	2	Jaw Half
3	82878	1	Blade Set Note: Replace blades as a set
4	62270DUB	2	Spring
5	91621	2	Spring Pin
6	91632	1	Blade Guiding Shoe
7	VAV04FH010Z	2	Screw (Apply Loctite 243 and torque to 4 Nm)
8	VAV08HC040	2	Screw (Apply Loctite 243 and torque to 35 Nm)
9	93189	1	Wire Support
10	VAE08FN	2	Nut (Torque to 25 Nm)

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