STANLEY®

PBCC85
CUTTING 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 SYMBOLS

Safety symbols and signal words, as shown below, are used to emphasize all operator, maintenance and repair actions which, if not strictly followed, could result in a life-threatening situation, bodily injury or damage to equipment.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER — This safety alert and signal word indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING — This safety alert and signal word indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION — This safety alert and signal word indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION — This signal word indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTICE — This signal word indicates a situation which, if not avoided, will result in damage to the equipment.

IMPORTANT — This signal word indicates a situation which, if not avoided, may result in damage to the equipment.

Always observe safety symbols. They are included for your safety and for the protection of the tool.

LOCAL SAFETY REGULATIONS

Enter any local safety regulations here. Keep these instructions in an area accessible to the operator and maintenance personnel.

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 on page 4.

PBCC85 5.5-Ton cable cutting 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.

- 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 in balance at all times.
- Do not inspect, clean or replace parts 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 with 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 damaged batteries and replace them 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 PBCC85 CUTTING TOOL?

The PBCC85 is a battery powered 5.5-ton cable cutting tool with a 3.34 inch guillotine style head. The PBCC85 is capable of cutting copper and aluminum up to 1250 MCM and telecom cable up to 3.3 inchs in diameter.

DANGER

DO NOT put fingers, hands or other body parts between the cutting head. Serious injury will result!

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SPECIFICATIONS & ACCESSORIES

SPECIFICATIONS

Cutting Force ..... 5.5 Tons (54 kN)
Cutting Capacity ..... Copper & Aluminum to 1250 MCM
Telecom Cable to 3.3”

Jaw Type ..... 3.34” Guillotine

Estimated Cuts per Battery Charge 80
Tool Cycle Time ..... 9 Seconds

Battery Type ..... DEWALT 20V Max, 5 amp/hour

Tool Weight ..... 19.9 Lbs.

Tool Length ..... 22.8 Inches

Maintenance Interval ..... 15,000 Cycles

ACCESSORIES

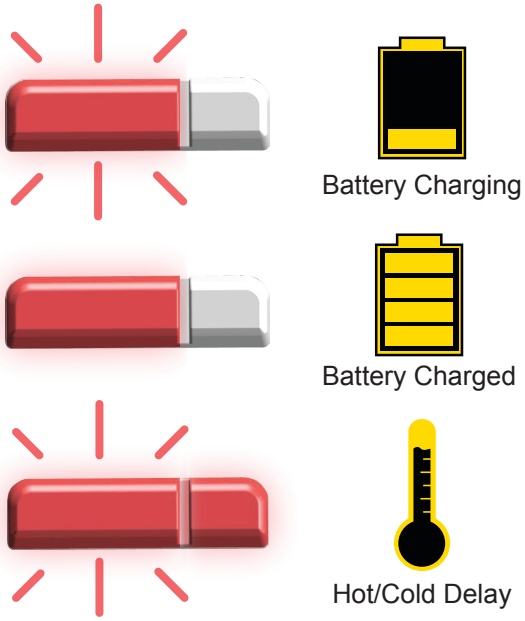
5 Amp/hour Lithium Ion Battery DC205
5 Amp/hour Lithium Ion Battery 2-pack DCB205-2

120V AC Charger DCB115
12V DC Charger DCB119
Note: Only use battery chargers recommended by STANLEY.

Bucket Bag BB01

OPERATION

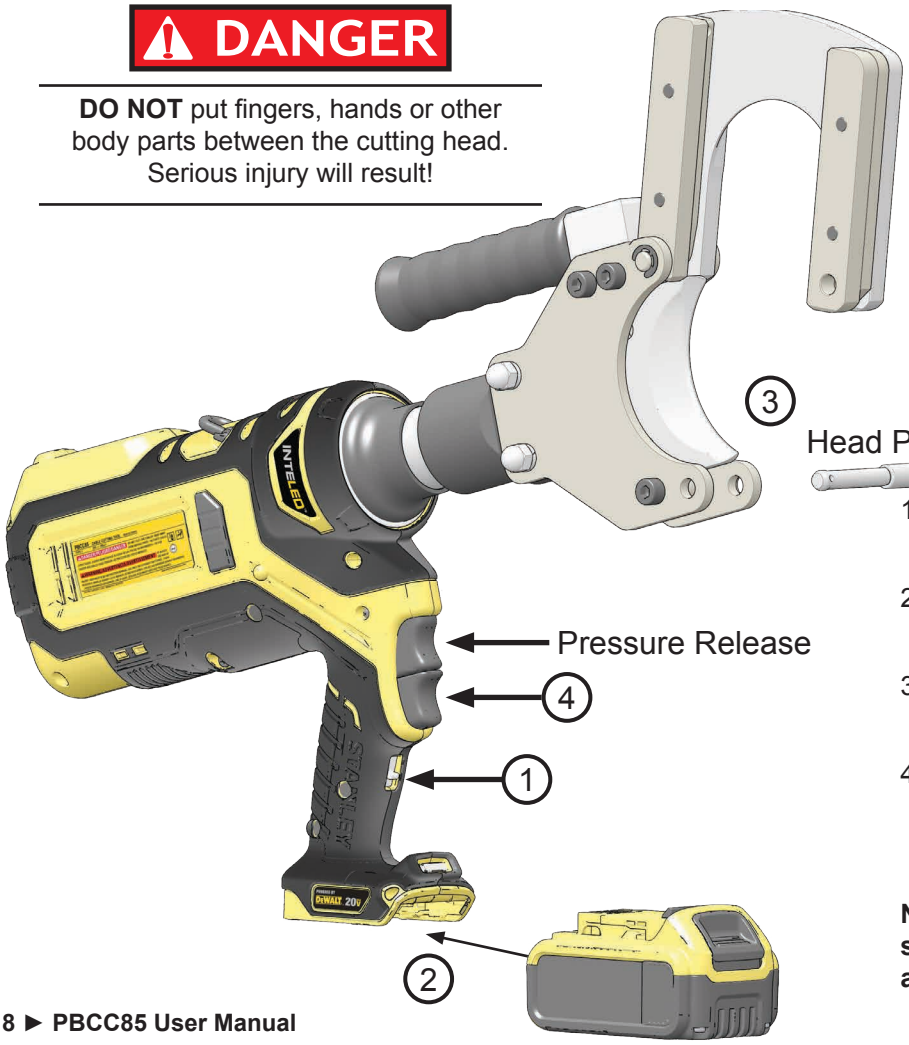
CHARGE BATTERY



USING THE PBCC85

DANGER

DO NOT put fingers, hands or other body parts between the cutting head. Serious injury will result!



1. Set the trigger lock.
2. Insert battery.
3. Fasten the cutting head around the cable.
4. Release the trigger lock. Press and hold the trigger until the cable is cut. Press and hold the pressure release to open the cutting head.

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

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OPERATION

INTELED SYSTEM

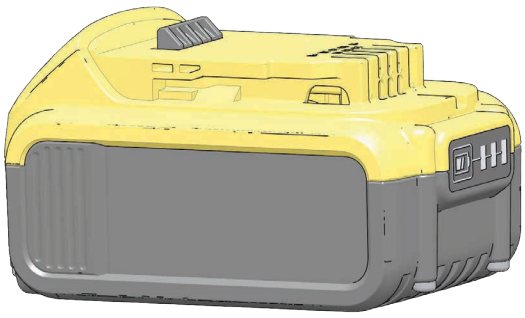
The InteLED light ring shows the status of the cut in real-time.

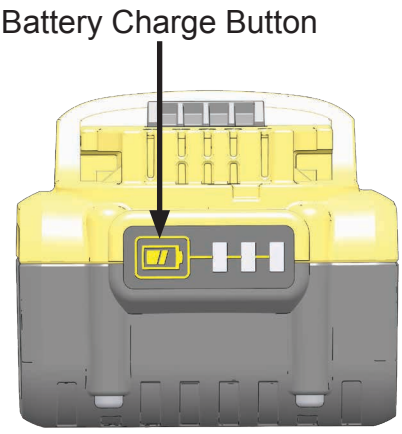
White - The tool is cutting. InteLED will stay lit for 30 seconds after the cut is complete.

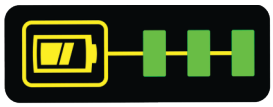
Green - The tool has developed full hydraulic pressure during the cut.

Red - The tool did not develop full pressure during the cut. You may need to cycle the tool again.

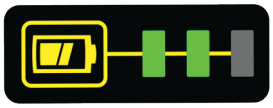
CHECKING BATTERY CHARGE



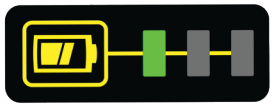




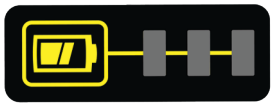
75 - 100% Charged



51 - 74% Charged



Less than 50% Charged

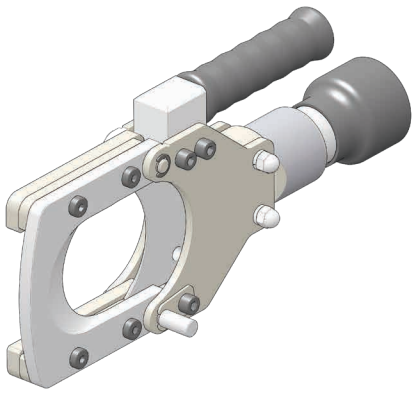


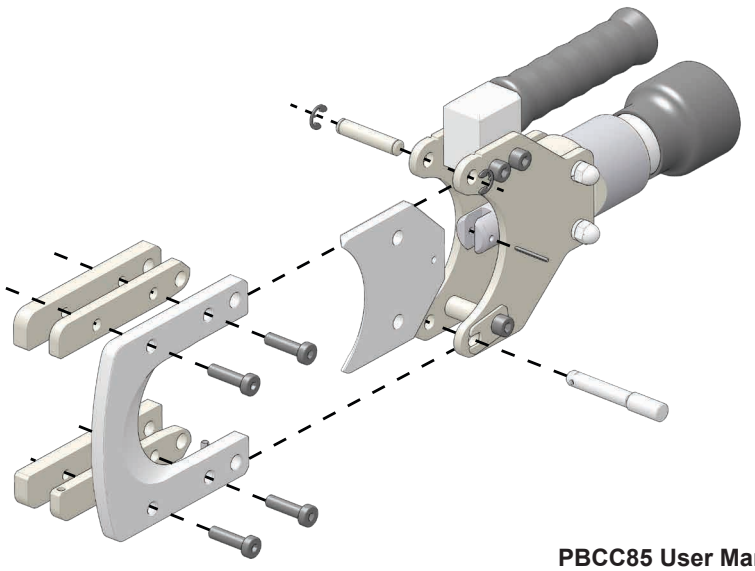
Charge Battery

REPLACING THE BLADES

DANGER

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

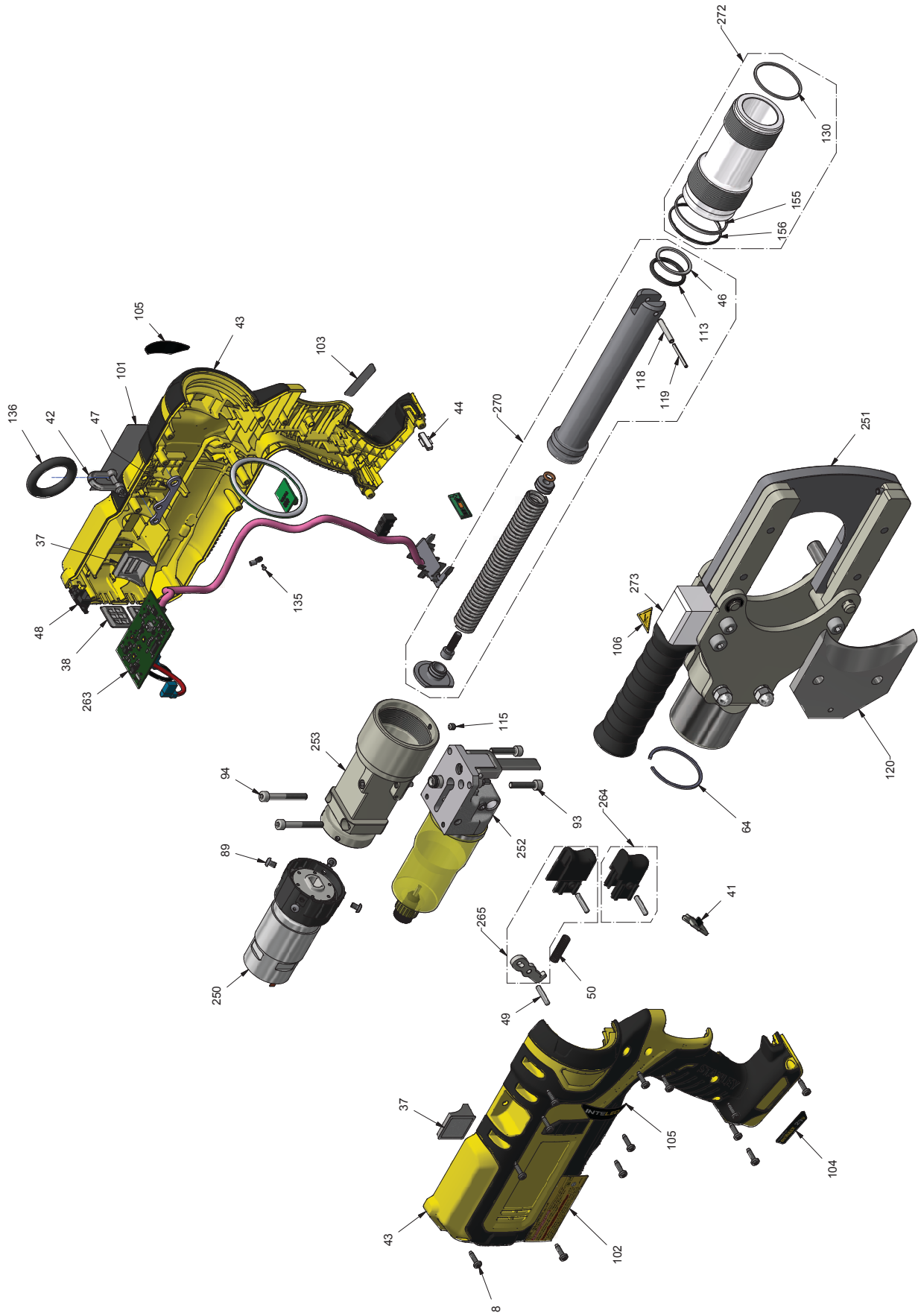




TROUBLESHOOTING

Problem	Solution
The head pin won't fit through the hole in the cutting head.	Press and hold the pressure release. Ensure the two halves of the cutting head are aligned. Close the cutting head and insert the head pin.
The tool won't cut when I press the trigger.	Ensure the battery is charged. Disengage the trigger lock.
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 give me bad cuts / The InteLED flashes red after every crimp.	Ensure the battery is fully charged. Ensure the blades are in good condition. If problem persists, have the tool serviced as soon as possible.
The tool is leaking hydraulic oil.	Have the tool serviced immediately.

PBCC85 PARTS ILLUSTRATION



PBCC85 PARTS LIST

ITEM	P/N	QTY	DESCRIPTION
37	91649	2	Side Membrane
38	91650	2	Rear Membrane
41	91655	1	Trigger Lock
42	77058-01	1	Shackle
43	91593-STA	1	Housing Set
44	91439	1	LED
46	JAE2680260	1	Anti Extrusion Ring
47	77051-01	1	Shackle Holder
48	91410	1	USB Cover
49	AIG4X19.8BP	1	Calibrated Pin
50	77061	1	Spring
64	AAIS47	1	Retaining Ring
89	VAV04CB006	4	Screw
93	VAV05HC025	2	Screw
94	VAV05HC040	2	Screw
98	VAV3.5TC014ZN	13	Screw
101	91633	1	STANLEY Label
102	91644	1	PBCC85 Label
103	91634	1	“Powered By DE-WALT” Label - Left
104	91635	1	“Powered By DEWALT” Label - Right
105	91636	2	InteLED Label
106	ZSETPD349	1	Cutting Hazard Label
113	J2550300	1	O-Ring
115	VAV05CV005	1	Screw
118	AGEM4.25	1	Elastic Pin
119	AGEM2.5.26	1	Elastic Pin
120	37016DUB	2	Blade
130	JAE3940180	1	Anti-extrusion Ring
135	ACKR0204	1	Grooved Pin
136	91465	1	Strap Ring
155	JAE4500125	1	Anti-extrusion Ring
156	J3740180	1	O-Ring
250	91856	1	Motor Reduction Unit
251	77898C	1	Cutting Head Unit
252	See page 14	1	Reservoir Unit
253	See page 13	1	Hydraulic Unit
263	92886	1	Electronic Device

ITEM	P/N	QTY	DESCRIPTION
264	77853-STA	1	Advance Trigger Unit
265	77854-DEW	1	Release Trigger Unit
270	85843C	1	Piston Unit
272	78807C	1	Sleeve Unit
273	37805C	1	Handle Unit

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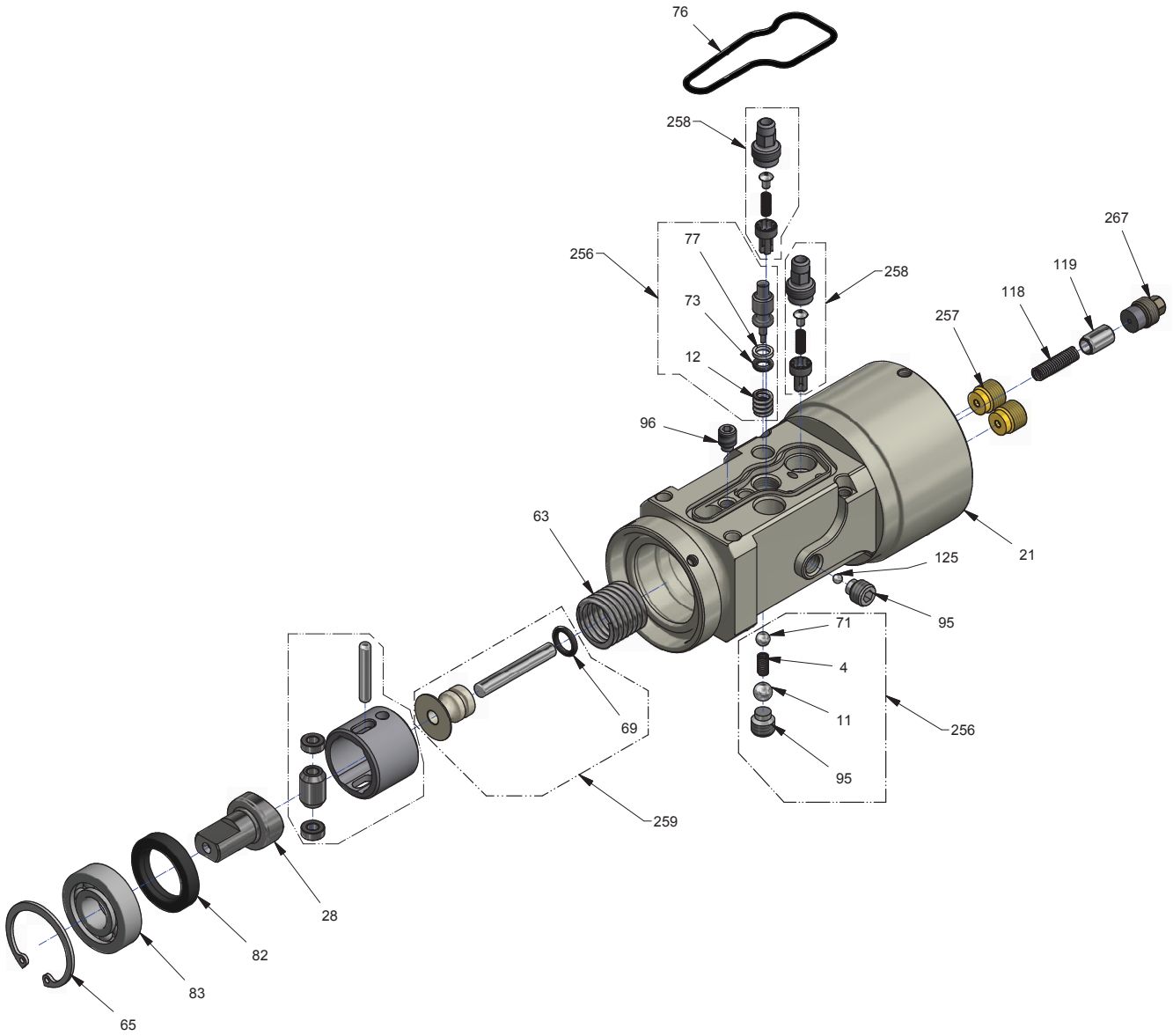
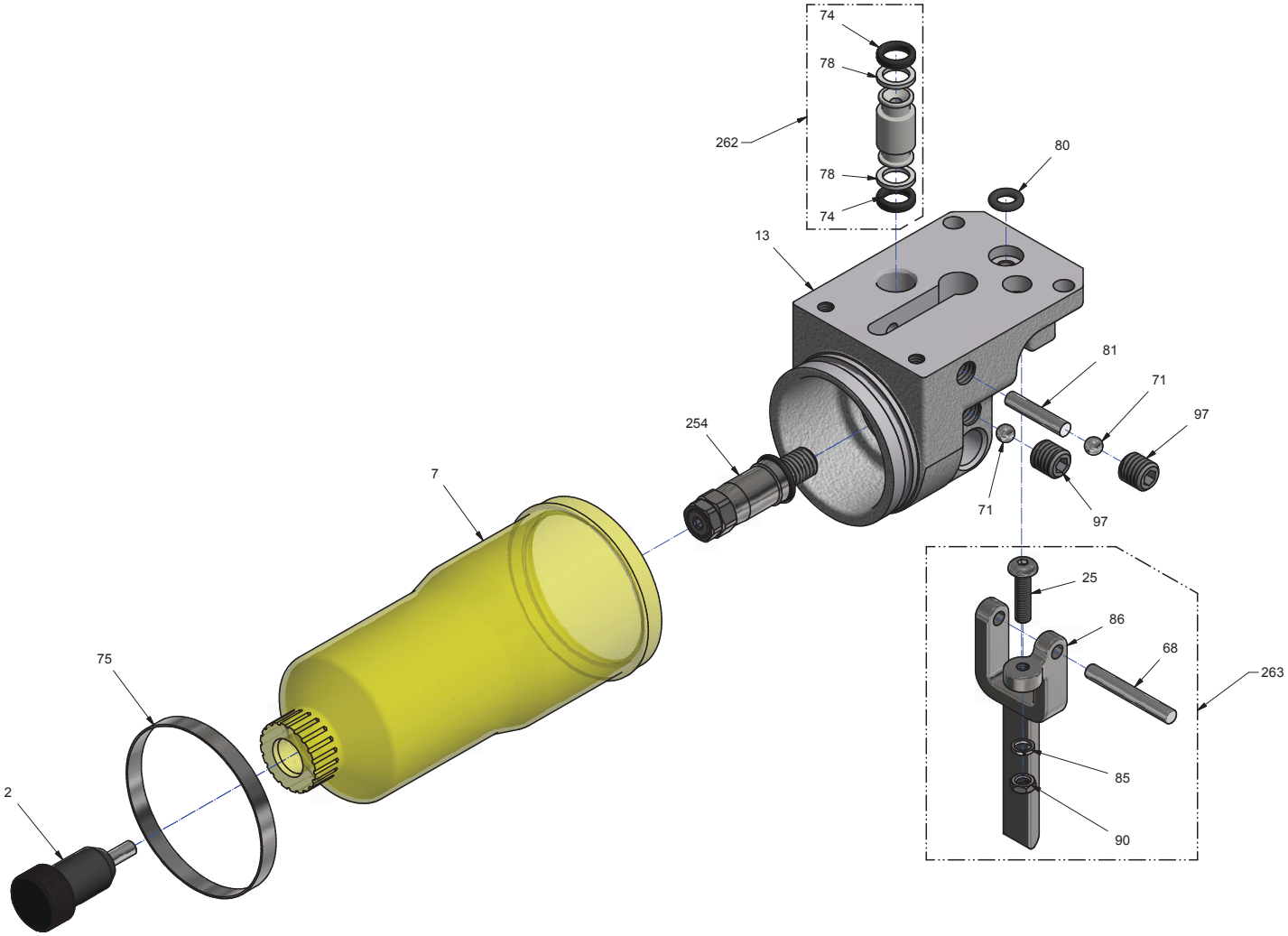
PBCC85 HYDRAULIC BODY ILLUSTRATION



ITEM	P/N	QTY	DESCRIPTION
4	77504	1	Spring
11	BILL06.35	1	Ball
12	30189DUB	1	Spring
21	91571	1	Hydraulic Body
28	77026-04	1	Spring
63	87213	1	Spring
65	AAIN30	1	Circlip
69	J0720190	1	O-Ring
71	BILL04.76	1	Ball
73	J0290178PU70	1	O-Ring
76	J4300200	1	O-Ring
77	JAE0500100	1	Anti-extrusion Ring
82	JSR1927205	1	Wiper Ring

ITEM	P/N	QTY	DESCRIPTION
83	R1B12.30.08Z	1	Ball Bearing
95	VIV08TT008	2	Screw
96	VAV06TT008	1	Screw
118	77030	1	Spring
119	77016	1	Sliding Part
125	BILL03.175	1	Ball
256	77803	1	Release Device
257	77805-01	2	Delivery Valve Unit
258	77806-01	1	Succion Valve Unit
259	77848C-02	1	Spring Collar Unit
260	77849C	1	Cam Compartment Unit
267	77804C	1	Commutator

PBCC85 RESERVOIR PARTS LIST



ITEM	P/N	QTY	DESCRIPTION
2	30176DUB	1	Reservoir Plug
7	91569	1	Oil Reservoir
13	77009-02	1	Reservoir Body
25	VAV04CB015	1	Screw
68	AIG4X29.8BP	1	Calibrated Pin
71	BILL04.76	2	Ball
74	J0640190	2	O-Ring
75	91576	1	Metal Clamp
78	JAE0700150	2	Anti-extrusion Ring
80	J0420250	1	O-Ring
81	ZBINA420	1	Magnet Pin
85	VAR04W	1	Washer
86	91232	1	Release Trigger
90	VAE04	1	Nut
97	VAV08BP008	2	Screw

ITEM	P/N	QTY	DESCRIPTION
254	92884-07	1	Overload Valve
262	77851C	1	Bodies Connector
263	77852-DEW	1	Release Lever Unit

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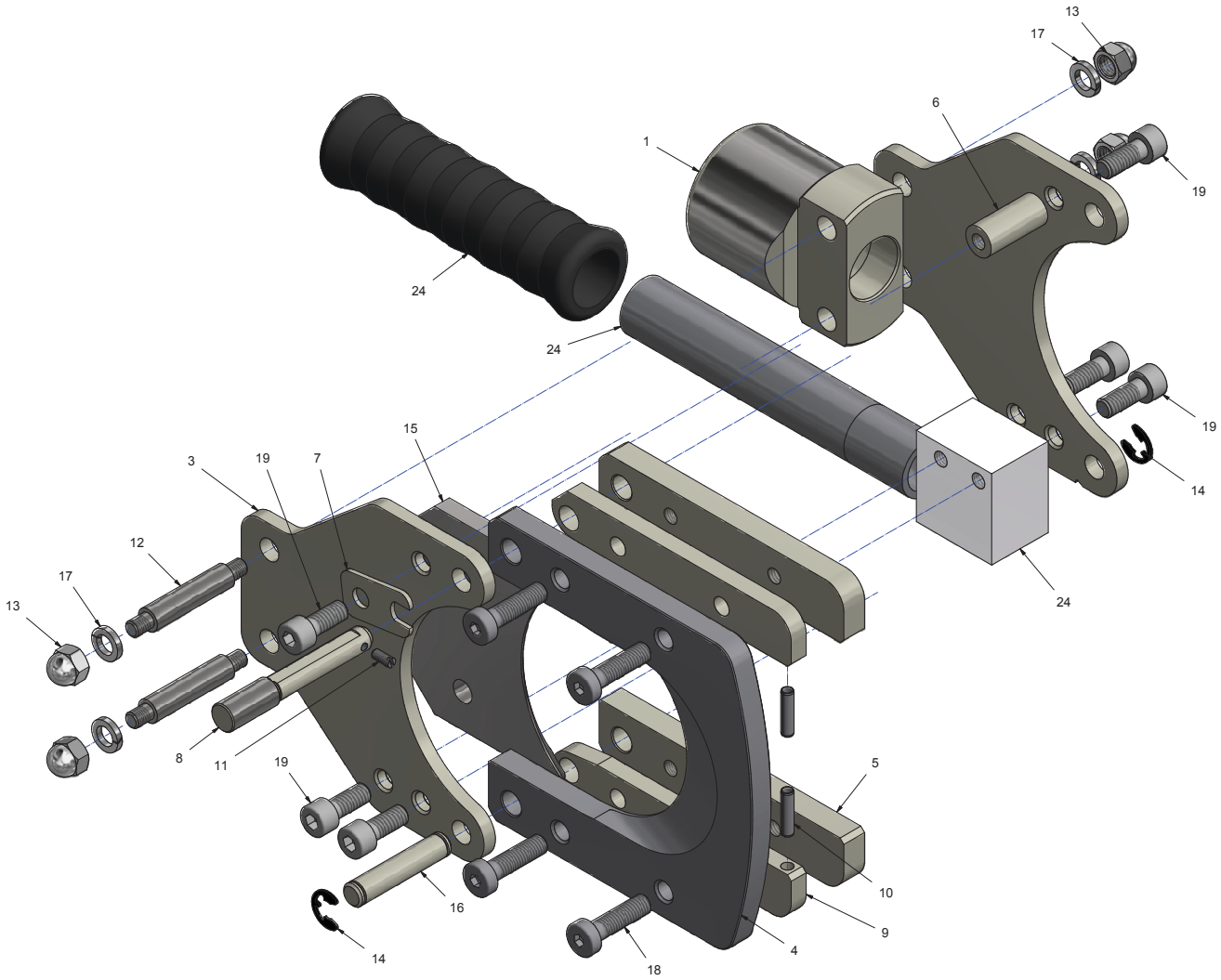
PBCC85 CUTTING HEAD



ITEM	P/N	QTY	DESCRIPTION
1	77491	1	Nose
3	37014DUB	2	Plate
4	37010DUB	1	Counter Blade
5	37012DUB	2	Slide Away
6	37018DUB	1	Sleeve
7	37037DUB	1	Stop Plate
8	37025-01	1	Locking Pin
9	37011DUB	2	Crossbar
10	AGEM5.20	2	Elastic Pin
11	VAV04PF	1	Ball Headed Dowel
12	37031DUB	2	Dowel
13	VAE08HBZ	4	Nut
14	AAET10	2	Circlip
15	37016DUB	1	Blade

ITEM	P/N	QTY	DESCRIPTION
16	37017DUB	1	Pin
17	VAR08WZ	4	Washer
18	VAV08HB030	4	Screw
19	VAV08HC020	6	Screw
24	37805C	1	Handle Unit

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