

# ZT-5000 TRIM LIKE A PRO



**OPERATOR'S MANUAL** 

**ASSEMBLY** • OPERATION • MAINTENANCE

MANUAL PART#: Q0605 Initial Release - Feb 2024

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#### **SAFETY**

- **1.** Read the operator's manual carefully and familiarize yourself with the proper use of your attachment. Do not allow anyone who is not acquainted with the Safety Instructions to use your attachment.
- 2. Know the controls and how to stop them quickly. READ THE OPERATOR'S MANUAL!
- **3.** Do not allow children to operate the machine. Do not allow adults to operate it without proper instruction.
- **4.** Be especially watchful of children and pets entering into the area while operating.
- **5.** Keep your eyes and mind on your machine while operating your attachment. Don't let others distract you.
- **6.** Do not attempt to operate your machine when not in the driver's seat.
- **7.** Stop machine, shut off deck attachment, set parking brake, shut off engine and remove ignition key before performing any maintenance.
- **8.** Inspect your lawn and remove any foreign objects before mowing. Never deliberately run the mower across any foreign object.
- **9.** Wear hearing protection.
- **10.** Wear eye protection to prevent debris from getting into your eyes.

#### **SAFETY**

**WARNING!** Do not work around the mower deck area until you are certain that the mower blades and the trimmer have stopped rotating.

**WARNING!** To avoid serious injury, perform maintenance on your unit; **ONLY AFTER STOPPING THE MOWER'S ENGINE AND WAITING FOR ALL MOVING PARTS TO COME TO A COMPLETE STOP.** Set the parking brake. Always remove the ignition key before beginning maintenance.

**WARNING!** For your own personal safety, ALWAYS mow ACROSS the face of slopes and NEVER UP and DOWN the face. NEVER attempt to mow excessively steep slopes, and use caution when turning on any slope.

# **Safety Alert Symbol**

This Safety Alert Symbol means:

#### "ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!"

This symbol is used to call attention to safety precautions that Should be followed by the operator to avoid accidents. When

> you see this symbol, carefully read the message that follows and heed its advice. Failure to comply with safety precautions could result in death or serious bodily injury.



## **Safety Signs**

The signal words **DANGER, WARNING,** and **CAUTION** are used on the equipment safety signs. These words are intended to alert the viewer to the existence and the degree of hazard seriousness.



This signal word indicates a potentially hazardous situation which, if not avoided, will result in death or serious injury.

White letters on **RED** 



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

It may also be used to alert against unsafe practices.

Black letters on **ORANGE** 



This signal word indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury.

It may also be used to alert against unsafe practices.

Black letters on YELLOW

#### **BATTERY SAFETY**

- Charge the battery pack only with the included charger.
- Allow battery to cool before recharging.
- Always use the included battery box during operation.
- Do not allow the battery pack or charger to overheat. If they are warm, allow them to cool down.
- Store battery in a cool and dry environment away from heat sources, Recharge only at room temperature.
- Handle with care.
- Do not disassemble the battery.
- Do not expose the battery to water or salt water.
- In the event that the battery leaks and the fluid gets into one's eye, do not rub the eye. Rinse well with water. For skin contact neutralize with lemon juice, vinegar, or other mild acid. Rinse well with soap and water.
- Immediately discontinue use of the battery if the battery emits an unusual smell, feels hot, changes shape, or appears abnormal in any other way.
- Keep away from children.



Failure to follow warnings and instructions could result in fire damaging equipment and injury to operator and void warranties.

## **Section 1 Introduction**

Thank you for purchasing the newly released PECO Z-Trimmer Pro model number ZT-5000. We took all the great features our customers have grown to love, and improved them for greater durability and performance.

The Z-Trimmer Pro is an attachment for your riding mower, zero-turn mower, stand on mower or tractor, that allows you to trim and mow at the same time. Your productivity and efficiency will improve and you will save time and labor.

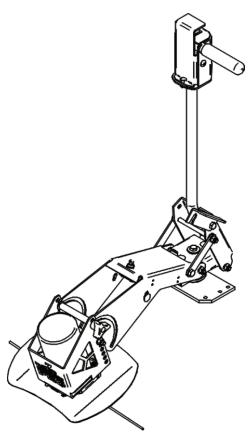
The Z-Trimmer Pro comes with an 84 volt battery and should be allowed to charge fully before initial use for maximum performance.

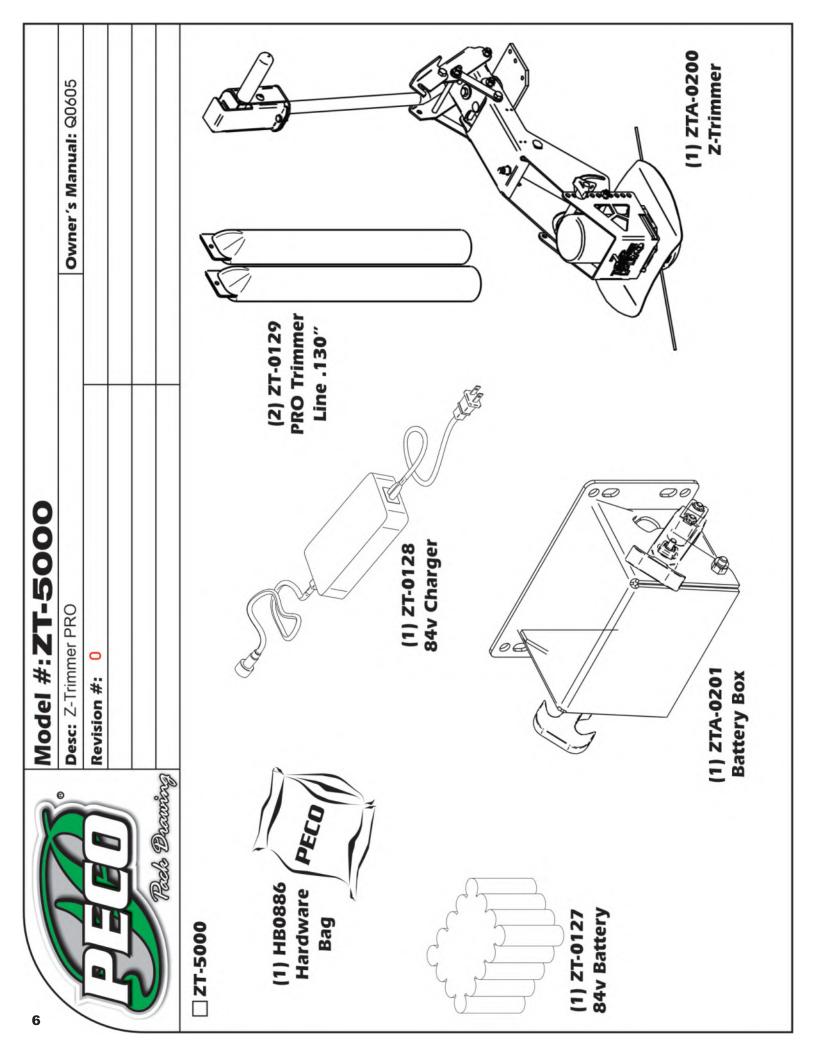
The trimmer line should be no longer than 16". Longer lengths will cause excessive power consumption and reduce the efficiency of the trimmer.

The 140 degree breakaway action of the Z-Trimmer Pro is intended to provide relief when hitting objects. Many mowers travel at speeds of 10+ MPH. At speeds greater than 2 MPH, hitting objects with the Z-Trimmer Pro <u>will</u> cause damage to the unit. Trimming at higher speeds will decrease quality of the cut.



**NOTE:** Always wear the proper personal protection equipment when operating the PECO Z-Trimmer Pro.





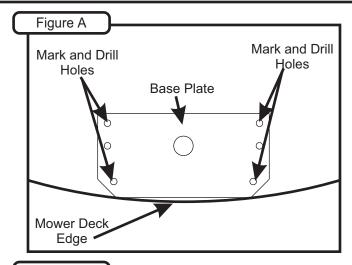
#### **Section 2 Mounting Instructions**

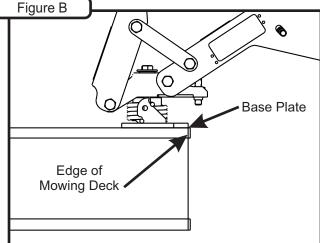
**NOTE:** The Z-Trimmer Pro is designed to fit most styles of mowing decks. We recommend using 4 mounting holes to secure the Z-Trimmer Pro to the mowing deck. The style of mowing deck on your machine will determine which mounting holes you will use.

Before drilling any holes into your mowing deck, locate the best position for the Z-Trimmer Pro. Things you should consider before drilling any holes:

- Clearance for the Z-Trimmer Pro in both the up and down positions.
- Accessibility to the handle from the operator's seat.
- Distance between the trimmer head and the mowing deck when the Z-Trimmer Pro is in the engaged position.
- Check for possible blade interference.

Place the Z-Trimmer Pro to the side of the mowing deck opposite of the grass discharge chute. Position the base plate so that the plate is flush with the edge of the deck and on center. Once in position, mark four holes from the base plate onto your mowing deck. Drill the holes with a 1/4" (.250-.257) drill bit. Secure the Z-Trimmer Pro to the mower deck using (4) 1/4"-20 x 1" Hex Bolts P#(K1125) and (4) 1/4"-20 Nylon Flange Locknuts P#(K2014). Refer to Figure A and B.





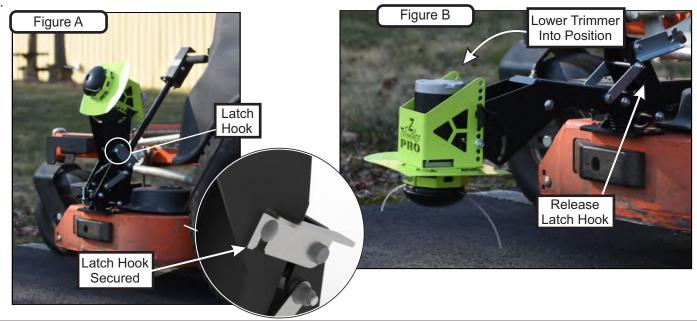
Route the power cable before connecting the cable to the battery. After the Z-trimmer Pro has been secured to the mowing deck route the cable around the outside of the operator seat so that the cable does not interfere with the seat or the control arms. Before connecting the power cable to the battery ensure the power switch is in the off position. Keep cable away from all heat sources and moving parts. Use zip-ties to secure the power cable, once the best routing has been determined.

#### **Section 3 Operating Instructions**

When not in use the Z-Trimmer Pro should be in the upright position with the latch hook secured. See Figure A.

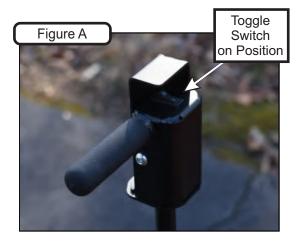
#### **Trimming**

1. Release the latch hook and lower the trimmer into the down position. Refer to Figure B.



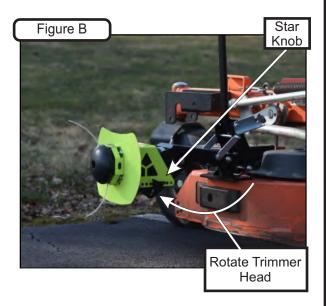
#### **Trimming (cont.)**

To activate trimmer head flip the switch to the ( I ) position. To de-activate the trimmer head flip the switch to the ( O ) position. Refer to Figure A.



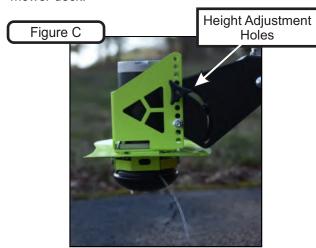
#### **Edging**

To position the trimmer head for edging, loosen the star knob shown in Figure B, rotate the trimmer head into the position desired for edging and retighten the star knob.



# **Section 4 Height Adjustment**

While in the down position, adjust the height of the trimmer head so that it is in line with the blades on the mower deck.



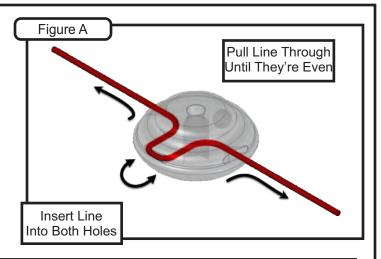
For fine tuning adjustment of the height, use the adjustment bolt shown in Figure D. Turn the bolt clockwise to lower the swing arm, or counter-clockwise to raise the swing arm.



#### **Section 5 Trimmer Line**

To replace trimmer line, bend a new 16" precut line into two equal lengths, insert the line ends into the holes on the trimmer head. The head will automatically route the line out the correct hole. Pull each end taught and adjust if uneven. Refer to Figure A.

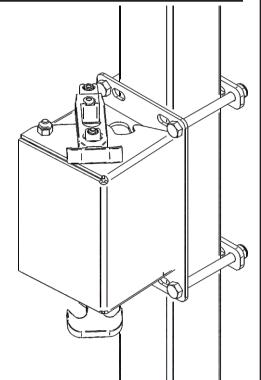
Any 0.095"- 0.135" line is acceptable however to order more of the included trimmer line P#(ZT-0129), contact PECO at (800) 438-5823.



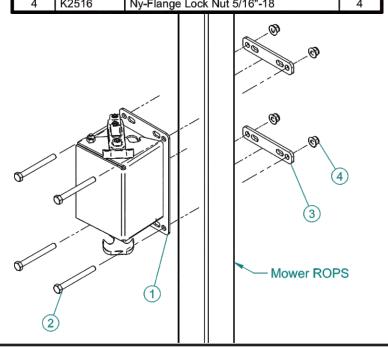
#### **Section 6 Battery Box Mounting**

The Battery Box is designed to fit most styles of mower ROPS however it can be mounted anywhere that is suitable. Ensure the included battery extension cable can reach and will be free of any interference before securing.

Secure the Battery Box using (4) 5/16 "-18 x 3" Hex Bolts P#(K1472) (4) 5/16"-18 Nylon Flange Locknuts P#(K2516) and (2) Battery Box Clamps P#(ZT-0126)



Item #	Part #	Desc.	Qty.
1	ZTA-0201	Battery Box	1
2	K1472	HHCS 5/16"-18 x 3" GR5	4
3	ZT-0126	Battery Box Clamp	2
1	K2516	Ny Elango Look Nut 5/16"-19	1

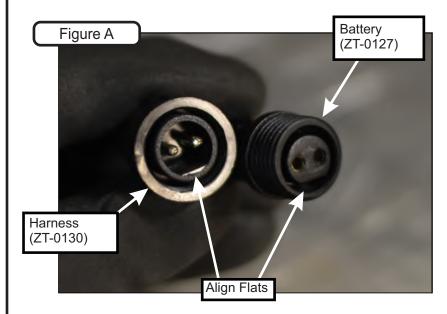


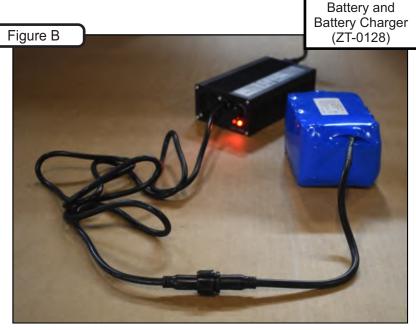
## **Section 7 Connecting the Battery**

With the Z-Trimmer Pro and Battery Box secured ensure the power switch is in the off position and connect the Battery (ZT-0127) to the Battery Extension Harness (ZT-0130) aligning the flat edges of both terminals and tightening the securing nut. Refer to figures A and B.

To charge the battery first disconnect it from the battery harness and remove the battery from the battery box. Allow battery to cool if warm. Next connect the Battery to the Battery Charger (ZT-0128) as previously described above. Do not leave battery unattended while charging.

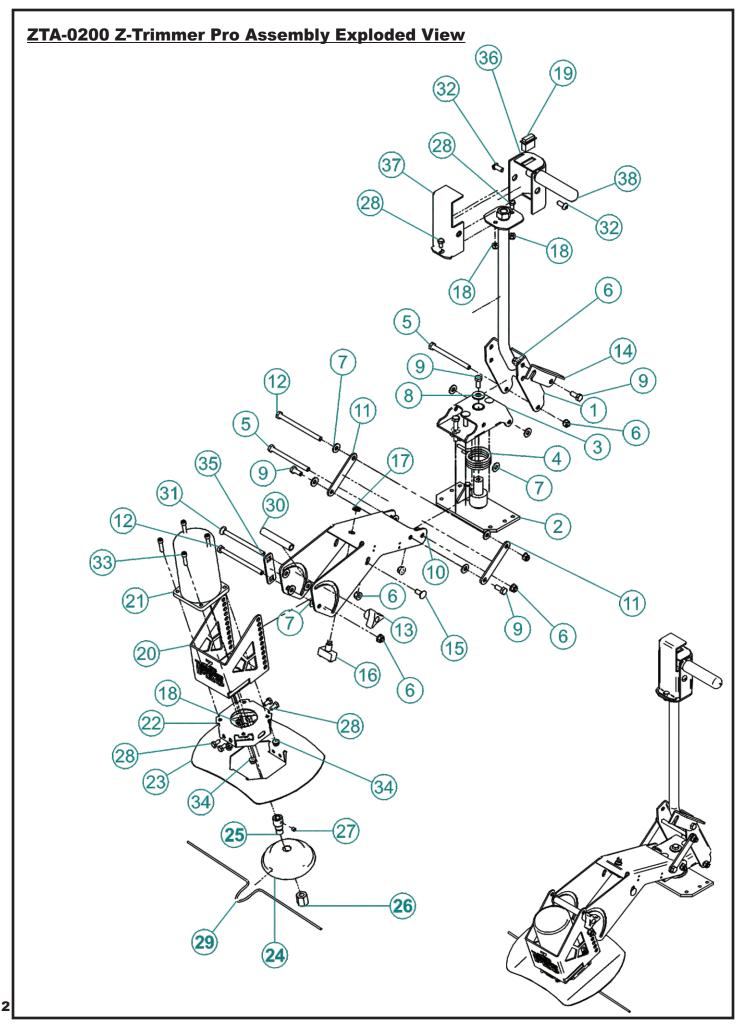
Once connected a red LED will come on to indicate the battery is charging. A second green LED will come on once charging is complete. Battery can be disconnected at this time.





## **Section 8 Tips and Recommendations**

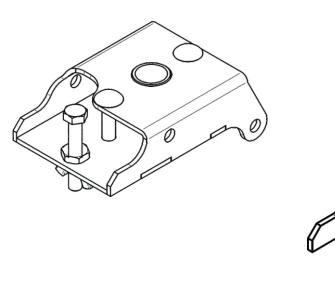
- Inspect the Z-Trimmer Pro before each and every use. Examine the base plate to ensure the Z-Trimmer Pro is tightly secured to your machine. Make sure the power cable is secure. Check all moving parts for damage or obstruction. Inspect the trimmer head and line.
- Check the head shroud for any debris before using the Z-Trimmer Pro. Clean if necessary.
- Keep your trimmer line in an easily accessible, but secure place on your machine. Practice replacing the trimmer line from the operator seat to save time.
- If the Z-Trimmer Pro gets hung up or caught on something, STOP and TURN THE POWER OFF before inspecting the situation.
- Ensure the Z-Trimmer Pro is in the correct angle (trimming/edging) and that the star knob is tightened securely before use.
- Always inspect the area you are trimming before operating your Z-Trimmer Pro. Look for anything that could potentially get caught up in the trimmer head, or damage the trimmer.

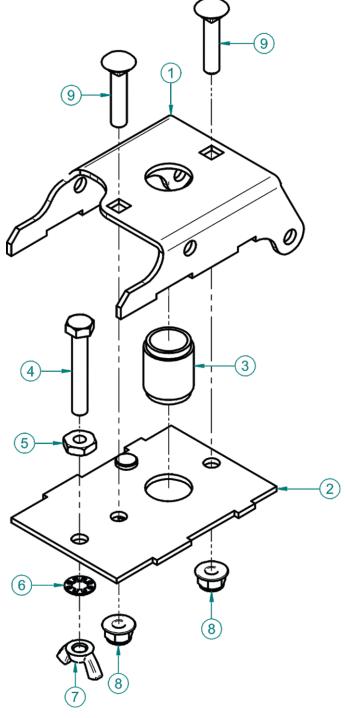


# ZTA-0200 Z-Trimmer Pro Assembly Exploded Parts List

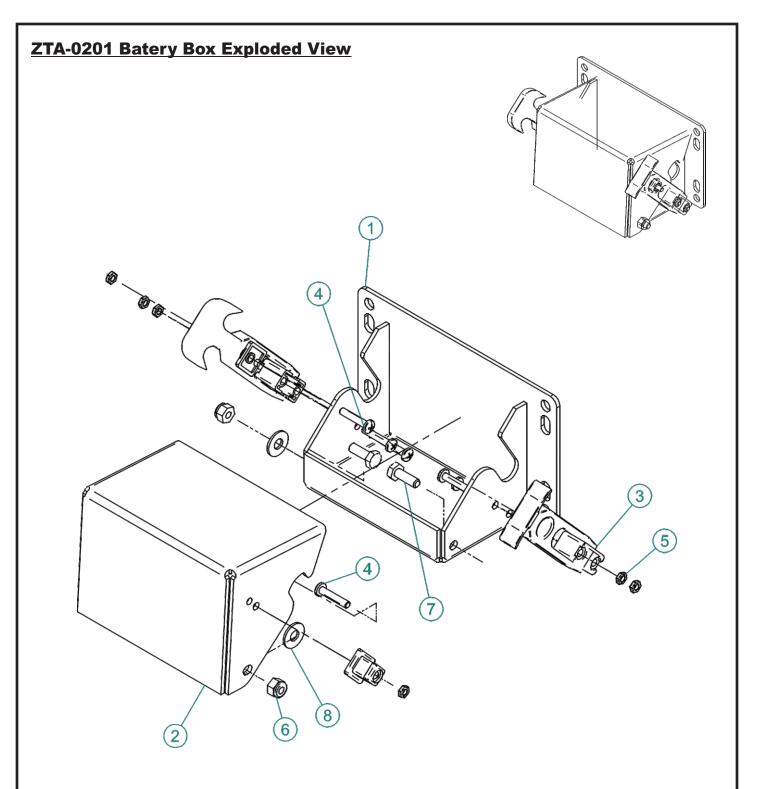
Item #	Part #	Desc.	Qty.
1	ZTA-0203	Lower Handle Assembly	1
2	ZTA-0102	Base Plate Assembly	1
3	ZTA-0004_01	Pivot Block Assembly	1
4	ZT-0010	Pivot Spring	1
5	K0293	5/16"-18 x 4" HHCS	2
6	K2516	Ny-Flange Lock Nut 5/16"-18	8
7	K0037	Flat Washer / 1/4" (.75 OD x .312 ID x .060 T)	13
8	K0047	Flat Washer 3/8" / 1.00 OD x .446 ID x .075 T	1
9	K1153	HHCS 5/16"-18 x 3/4"	4
10	ZT-0106	Swing Arm	1
11	ZT-0004	Swing Arm Bracket	2
12	K0294	5/16"-18 x 4-1/2" HHCS	2
13	J0256	Star Knob	1
14	ZT-0026	Latch Hook	1
15	K1142	5/16"-18 x 3/4" Carriage Bolt	1
16	P0082	OPS SWITCH	1
17	J2005	15/32"-32 Hex Panel Nut	1
18	K1128	1/4"-20 Nyloc Nut	6
19	P0308	Power Toggle Switch	1
20	ZT-0121	Motor Mount	1
21	ZT-0120	84v Motor	1
22	ZT-0122	Vine Guard	1
23	ZT-0119	Debris Shield	1
24	V0065	Z-Trimmer Head / Unibody	1
25	ZT-0012	Shaft Bushing	1
26	ZT-0013	Shaft Nut	1
27	K0295	1/4"-28 x 1/4" Set Screw	1
28	K1105	1/4"-20 x 1/2" HHCS	6
29	ZT-0017	Trimmer Line / Vortex	1
30	ZT-0135	Pivot Lock Bushing	1
31	K0292	5/16"-18 x 4-1/2" Carriage Bolt	1
32	K1530	5-16"-18 X 3/4" Button Head Socket Cap Screw	2
33	K1401	1/4"-20 x 1" SHCS / Zinc / GR8	4
34	K2014	1/4"-20 Ny-Flange Lock Nut	4
35	ZT-0136	Carriage Spacer	1
36	ZTA-0207	PRO Upper Handle Base Weldment	1
37	ZTA-0208	Upper Handle Guard Weldment	1
38	V1158	Handle Grip	1

# **ZTA-0004 01 Pivot Block Assembly Exploded Parts List**

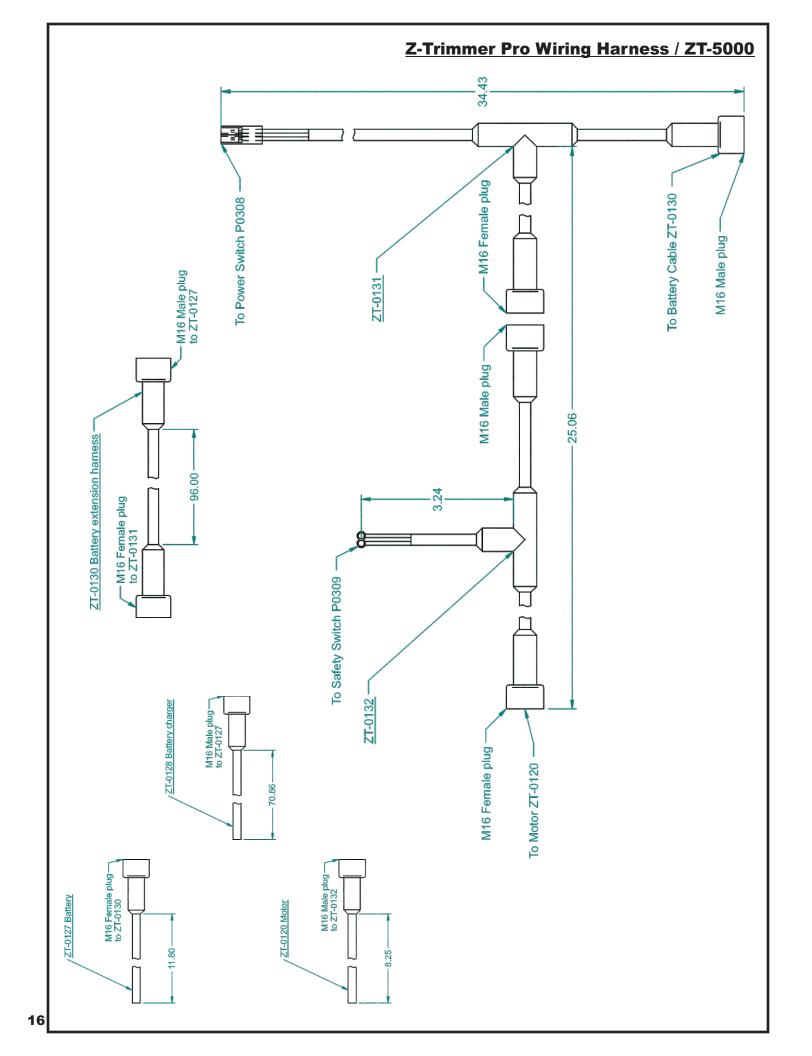




Item #	Part #	Desc.	Qty.
1	ZT-0023_01	Pivot Block Top	1
2	ZTA-0015	Pivot Block Stiffner Weldment	1
3	ZT-0021	Pivot Block Bushing	1
4	K1159	5/16"-18 x 2" All Thread HHCS	1
5	K0120	5/16"-18 JAM NUT	1
6	K0044	I/T Tooth Lock Washer 5/16"	1
7	K0141	WIng Nut 5/16"-18 Zinc	1
8	K2516	Ny-Flange Lock Nut 5/16"-18	2
9	K1147	5/16"-18 x 1-1/2" Carriage Bolt	2



Item #	Part #	Desc.	Qty.
1	ZT-0124	Battery Box Base	1
2	ZT-0125	Battery Box Top	1
3	J0321	Rubber Draw Latch and Keeper	2
4	K1531	10-32 x 1" Machine Screw	6
5	K1532	10-32 Hex Nut	6
6	K1128	1/4"-20 Nyloc Nut	2
7	K1314	1/4"-20 x 3/4" HHCS G8	2
8	K0037	Flat Washer / 1/4" (.75 OD x .312 ID x .060 T)	



## **SAFETY DECALS**

To promote safe operation, New PECO, Inc. supplies safety decals on all products manufactured. Damage can occur to safety decals either through shipment, use or reconditioning. Contact your local Service Center for replacement decals.



Z-Trimmer Logo Part# 0063



Danger/Caution Label Part# R1105



Serial/ Model Number Tag



Z-Trimmer PRO Battery Box Stripe Part# R0064/R0065

#### **DOCUMENT THE FOLLOWING INFORMATION FOR FUTURE REFERENCE**

Unit Serial Number:			
<b>Date of purchase:</b> ///			
Dealer/Distributor Name:			
Address:	State:	Zip:	
Phone Numbers			

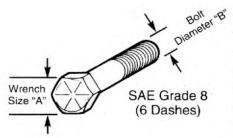
# **TORQUE SPECIFICATIONS**

## **AMERICAN**

**Bolt Head Markings** 

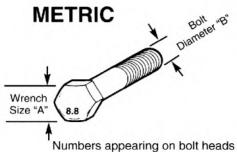






Proper toque for American fasteners used on Peco equipment. Recommended Torque in Foot Pounds (Newton Meters).\*

WRENCH SIZE (IN.) "A"	BOLT DIAMETER (IN.) "B" AND THREAD SIZE	SAE GRADE 2	SAE GRADE 5	SAE GRADE 8
7/16	1/4 - 20 UNC	6 (7)	8 (11)	12 (16)
7/16	1/4 - 28 UNF	6 (8)	10 (13)	14 (18)
1/2	5/16 - 18 UNC	11 (15)	17 (23)	25 (33)
1/2	5/16 - 24 UNF	13 (17)	19 (26)	27 (37)
9/16	3/8 - 16 UNC	20 (27)	31 (42)	44 (60)
9/16	3/8 - 24 UNF	23 (31)	35 (47)	49 (66)
5/8	7/16 - 14 UNC	32 (43)	49 (66)	70 (95)
5/8	7/16 - 20 UNF	36 (49)	55 (75)	78 (106)
3/4	1/2 - 13 UNC	49 (66)	76 (103)	106 (144)
3/4	1/2 - 20 UNF	55 (75)	85 (115)	120 (163)
7/8	9/16 - 12 UNC	70 (95)	109 (148)	153 (207)
7/8	9/16 - 18 UNF	79 (107)	122 (165)	172 (233)
15/16	5/8 - 11 UNC	97 (131)	150 (203)	212 (287)
15/16	5/8 - 18 UNF	110 (149)	170 (230)	240 (325)
1-1/8	3/4 - 10 UNC	144 (195)	266 (360)	376 (509)
1-1/8	3/4 - 16 UNF	192 (260)	297 (402)	420 (569)
1-5/16	7/8 - 9 UNC	166 (225)	430 (583)	606 (821)
1-5/16	7/8 - 14 UNF	184 (249)	474 (642)	668 (905)
1-1/2	1 - 8 UNC	250 (339)	644 (873)	909 (1232)
1-1/2	1 - 12 UNF	274 (371)	705 (955)	995 (1348)
1-1/2	1 - 14 UNF	280 (379)	721 (977)	1019 (1381)
1-11/16	1-1/8 - 7 UNC	354 (480)	795 (1077)	1288(1745)
1-11/16	1-1/8 - 12 UNF	397 (538)	890 (1206)	1444 (1957)
1-7/8	1-1/4 - 7 UNC	500 (678)	1120 (1518)	1817 (2462)
1-7/8	1-1/4 - 12 UNF	553 (749)	1241 (1682)	2013 (2728)
2-1/16	1-3/8 - 6 UNC	655 (887)	1470 (1992)	2382 (3228)
2-1/16	1-3/8 - 12 UNF	746 (1011)	1672 (2266)	2712 (3675)
2-1/4	1-1/2 - 6 UNC	870 (1179)	1950 (2642)	3161 (4283)
2-1/4	1-1/2 - 12 UNF	979 (1327)	2194 (2973)	3557 (4820)



Numbers appearing on bolt heads indicate ASTM class.

\*Use 75% of the specified torque value for plated fasteners. Use 85% of the specified torque values for lubricated fasteners.

Proper torque for metric fasteners used on Peco equipment.

Recommended torque in foot pounds (newton Meters).\*

WRENCH SIZE (mm) "A"	BOLT DIA. (mm) "B"	ASTM 4.6	ASTM 8.8	ASTM 9.8	ASTM 10.9
8	5	1.8 (2.4)		5.1 (6.9)	6.5 (8.8)
10	6	3 (4)		8.7 (12)	11.1 (15)
13	8	7.3 (10)		21.1 (29)	27 (37)
16	10	14.5 (20)		42 (57)	53 (72)
18	12	25 (34)	74 (100)	73 (99)	93 (126)
21	14	40 (54)	118 (160)	116 (157)	148 (201)
24	16	62 (84)	167 (226)	181 (245)	230 (312)
30	20	122 (165)	325 (440)		449 (608)
33	22		443 (600)		611 (828)
36	24	211 (286)	563 (763)		778 (1054)
41	27		821 (1112)		1138 (1542)
46	30	418 (566)	1119 (1516)		1547 (2096)

#### PECO LIMITED WARRANTY FOR NEW PRODUCTS

New PECO, Inc. extends the following warranties to the ORIGINAL PURCHASER of each New PECO, Inc. consumer product purchased from one of our Dealers or directly from New PECO, Inc., subject to the following limitations:

#### A. ITEMS COVERED UNDER WARRANTY

- 1. PRODUCT WARRANTY Any part or parts which are deemed defective in material or workmanship, as delivered to the original purchaser, will either be repaired or replaced, as New PECO, Inc. elects, without charge for parts or labor, if the defect appears within 12 months from the date of purchase of the product to the Original Purchaser.
- 2. PARTS REPLACED DURING WARRANTY Any New PECO, Inc. part which is furnished in performance of this warranty and is defective in material or workmanship as delivered to the purchaser will be repaired or replaced, as New PECO, Inc. elects, before the expiration of the original warranty period.

#### **B. WARRANTY DISTINCTIONS**

- 1. RESIDENTIAL Products put to a personal use around a single household or residence are considered Residential.

  Products designated as "Residential" are warrantied for 12 months from the date of purchase of the product, to the ORIGINAL PURCHASER with proof of purchase, when used for or in residential applications.
- 2. COMMERCIAL Products put to any business use (agricultural, commercial or industrial) or used at multiple locations are considered Commercial. Products designated as "Commercial" are warrantied for 12 months from the date of purchase of the product, to the ORIGINAL PURCHASER with proof of purchase, when used for or in commercial applications. Products designated as "Residential" are warrantied for 90 days from the date of purchase of the product, to the ORIGINAL PURCHASER with proof of purchase, when used for or in Commercial applications.
- 3. RENTAL Products used for Rental or Lease Purposes are warrantied for 45 days from date of purchase of the product, to the ORIGINAL PURCHASER with proof of purchase, when used for or in a rental business.

#### C. ITEMS NOT COVERED BY NEW PECO WARRANTY

- 1. ENGINES & BATTERIES: Engines and Batteries attached to New PECO, Inc. products are covered under their respective separate manufacturer warranties and those companies must be contacted directly to file a warranty claim. Briggs & Stratton: <a href="https://www.briggsandstratton.com/na/en\_us/support/warranty.html">https://www.briggsandstratton.com/na/en\_us/support/warranty.html</a>
- 2. UNAPPROVED ALTERATION OR MODIFICATION: All obligations of New PECO, Inc. under this warranty shall be terminated if products are altered or modified in any way not approved by New PECO, Inc.
- 3. ACCIDENTS & NORMAL MAINTENANCE: This warranty covers ONLY manufacturers defective material and workmanship. It does not cover depreciation or damage caused by normal wear & tear, accident, improper maintenance, misuse or abuse of products. New PECO, Inc. products must be operated and maintained in accordance with the instructions furnished in the manuals. The cost of normal maintenance and normal replacement of service items such as belts, cutting blades, hoses, bags, etc., which are not defective shall be paid for by the purchaser.
- 4. NO SERVICE CENTER WARRANTY: The selling Service Center/Dealer makes no warranty on his own on any item warranted by New PECO, Inc. unless he delivers to purchaser a separate written warranty certificate specifically warranting the item. The Service Center or Dealer has no authority to make any representation or promise on behalf of New PECO, Inc. or to modify the terms of the original warranty in any way.
- 5. NO REPRESENTATIONS ADDITONAL WARRANTIES, DISCLAIMER: Neither New PECO, Inc. nor any company affiliated with New PECO, Inc. makes any warranties, representations or promises as to the quality of performance of its products other than those set forth herein. Except as described above, New PECO, Inc. makes no other warranties AND SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF FITNESS AND MERCHANTABILITY.
- 6. REMEDIED EXCLUSIVE: The only remedies the purchaser has in connection with the breach or performance of any warranty on New PECO, Inc. consumer products are set forth above. In no event will New PECO, Inc. be liable for special incidental or consequential damages.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, search by your zip code on <a href="www.lawnvac.com">www.lawnvac.com</a> or contact our Sales Department at New PECO, Inc. 800-438-5823 or email Sales@lawnvac.com.



New PECO, Inc.

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