



# **INSTRUCTIONS MANUAL**





The tool delivered with this manual may have been modified for specific needs. In that case, please give us the tool code number written on our shipping note or the approximate tool delivery date when you place an order for a new similar tool or for spare parts. In that way, you will be sure to get the required tool and/or spare part.

# WARNING



This information has to be kept in a location known by all users.



Each operator has to read carefully this manual before installing, using, and mending the product.

Be sure that the operator has understood using recommendations and the meaning of signs put on the product.

Most accidents could be avoided respecting this Manual Instructions. As a matter of fact, they were cr eated according to European laws and norms regarding products.

In each case, please respect and follow safety national norms. Do not take off nor damage the sticker s or advise put on the product and above all the details imposed by the law.

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#### WARNING! "READ ALL INSTRUCTIONS"

Always observe the safety regulations applicable in your country to reduce the risk of fire, electric shock and personal injury. Understand the following safety instructions before attempting to operate this product. Always wear eye protection when working with power tools. Keep these instructions in a safe place.

## SAVE THESE INSTRUCTIONS

## 1 GENERAL SAFETY RULES

#### 1.1 Work Area Safety

- Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.

#### 1.2 Personal Safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enable better control on the tool in unexpected situations.
- Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

#### 1.3 Tool Use and Care

- Use clamps or other practical ways to secure and support the work piece to a stable platform. Holding the work piece by hand or against your body is unstable and may lead to loss of control.
- Do not force tools. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
- **Do not use tool if switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
- Use only accessories that are recommended by the manufacture for your model. Accessories that may be suitable for one tool, may become hazardous when used on another tool.

#### 1.4 Service

- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
- When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.

# 2 Additional Safety Rules for Shut Off Impulse Tool

## 2.1 Battery Charger

- Caution : To reduce risk of injury, charge only the authorized batteries. Other types of battery may burst, causing personal injury and damage.
- Before using battery charger, read all instructions and cautionary markings on batteries, chargers and products using batteries.
- Do not allow anything to cover or clog the charger vents.
- Do not expose charger to rain, snow or wet conditions.
- To reduce the risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
- Use of an attachment not recommended or sold by the manufacturer may result in a risk of fire, electric shock, or injury to persons.
- Make sure cord for charger is located so that it will not be stepped on, tripped on, tripped over, or otherwise subjected to damage or stress.
- Do not abuse the power cord. Never use the cord to carry the charger. Keep cord away from heat, oil, water, sharp edges, or moving parts. Replace damaged cords immediately.
- Do not operate charger if it has been damaged in any way, take it to a qualified service center for repair.
- To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.
- Do not disassemble charger or battery cartridge, take it to a qualified service center when repair is required. Incorrect reassembly may result in a risk of electric shock or fire.

## 2.2 Battery Pack

- Do not charge battery pack when temperature is below 0°C (32°F) or above 40°C (104°F).
- Do not attempt to use a step-down transformer, an engine generator or DC power receptacle.
- Do not short the battery pack: Do not touch the terminals with any conductive material. Avoid storing battery cartridge in a container with other metal objects such as nails, coins, paper clips, etc.
- Do not expose battery cartridge to water or rain. A battery short can cause large current flow, overheating, possibly burns and even a breakdown.
- Do not store the machine and battery pack in locations where the temperature may reach or exceed 50 °C (122 °F).
- Do not incinerate the battery pack even if it is severely damaged or completely worn out. The battery pack can explode in a fire.
- Be careful not to drop, shake, or strike the battery.
- Do not charge inside a box or container of any kind. The battery must be placed in a well ventilated are during charging.
- Do not dispose of battery packs into household waste, fire or water. Battery packs should be collected, recycled or disposed of in an environmentally-friendly manner. Call the authorized warranty centers for places to dispose of damaged or inoperable batteries.

# **3 SCREWDRIVER- FUNCTIONAL GUIDES**



(A)	1/4" Hex with quick change chuck.
(B)	LED indicator provides simple process information to the operator. The signal is visible from any angle.
(C)	LED light for working in dark area.
(D)	Trigger switch with variable speed control.
(E)	Press button for easy Forward/Reverse operation.
(F)	Ergonomic handle design provides a well-balance.
(G)	Easy attached sliding battery system.
(H)	Li-ion battery pack delivers longer run-time.

# 4 WRENCH- FUNCTIONAL GUIDES



(A)	LED indicator provides simple process information to the operator. The signal is visible from any angle.
(B)	LED light for working in dark area.
(C)	Trigger switch with variable speed control.
(D)	Press button for easy Forward/Reverse operation.
(E)	Ergonomic handle design provides a well-balance.
(F)	Easy attached sliding battery system.
(G)	Li-ion battery pack delivers longer run-time.

## **5 FUNCTIONAL DESCRIPTION FOR SCREWDRIVER**

This industrial shut off screwdriver is designed for nut tightening/loosening and screw driving/loosening. It is not appropriate to use for wood/mild steel drilling. Please refer to the figure on the page to familiarize yourself with the major components of this tool before use.

#### 1/ Power Switch

Depressing the power switch will energize the LED light (2) in front and the tool starts to rotate. When released, power to the motor will cease and the tool stops to work immediately. But the LED light will remain for 5 seconds then off.

#### 2/ Forward/Reverse Button

The tool is always in forward operation unless the Forward/Reverse button is pressed. When the button is pressed, the yellow and green LED flash together, the tool will be in reverse operation. To get the tool back in forward operation, just simply press the button again and the LED would disappear and the tool is back in forward operation.

#### 3/ Quick Change Holder

This driver accepts only 1/4" (6.35mm) hexagonal bits. Be sure the bit is fully engaged by the chuck before operating tool. Otherwise, the bit may fly off and cause property damage or personal injury.

#### 4/ Li-ion Battery

This battery provides electrical power to the motor. Please charge it according to the charging instruction listed in this manual.

**WARNING :** Use the tool to either tighten or loosen nuts and screws ONLY in stipulated torque and voltage ranges.



## **6** FUNCTIONAL DESCRIPTION FOR WRENCH

This industrial shut off wrench is designed for nut tightening/loosening and screw driving/loosening. It is not appropriate to use for wood/mild steel drilling. Please refer to the figure on the page to familiarize yourself with the major components of this tool before use.

#### 1/ Power Switch

Depressing the power switch will energize the LED light (2) in front and the tool starts to rotate. When released, power to the motor will cease and the tool stops to work immediately. But the LED light will remain for 5 seconds then off.

#### 2/ Forward/Reverse Button

The tool is always in forward operation unless the Forward/Reverse button is pressed. When the button is pressed, the yellow and green LED flash together, the tool will be in reverse operation. To get the tool back in forward operation, just simply press the button again and the LED would disappear and the tool is back in forward operation.

#### 3/ Anvil (Drive Shaft)

The anvil will accept drive hex socket. Be sure the socket is fully inserted before operating tool. Otherwise, the socket may fly off and cause property damage or personal injury.

#### WARNING : Just only use the sleeve sockets.

#### 4/ Li-ion Battery

This battery provides electrical power to the motor. Please charge it according to the charging instruction listed in this manual.

# WARNING : Use the tool to either tighten or loosen nuts and screws ONLY in stipulated torque and voltage ranges.



#### Information to know :

- No lights on the tools indicates the tool is in SLEEP mode. To wake up the tool, just to press the trigger. The tools will be ready to use.
- After operating the tool, the impulse setting number will be remained on the display for 5 mins. As the number disappears, the tool goes into SLEEP mode.

## 7 ASSEMBLY

Check for damage to the tool; parts or accessories which may have occurred during transport. Take the time to thoroughly read and understand this manual prior to operation.

This tool kit contains:

- 1 18V Cordless Shut off Impulse Tool
- 1 or 2 torque adjust tool
- 1 instruction manual

#### 7.1 Attaching or Removing Battery Pack

1. To connect battery, line up the tracks and attach the battery pack. Slide toward the battery pack until it locks into position with a click.



2. To remove the battery pack, press the button on the top of the battery pack and release the battery pack.



## 8 OPERATIONS

This product had been carefully inspected prior to leaving the factory. It should provide you with years of satisfying service under normal operating conditions. Do not, however, force the tool to perform outside its design parameters. Such usage will void the warranty.

## WARNING!

Read the manual instruction before operating the tool. Always wear safety glasses or faceshields when operating this product. Failure to do so can result in dust, shavings or loose particles being thrown into your eyes.

- 1. Slide battery into the bottom of the housing handle until a click sound occurs. Do not force battery as it should slide easily into place with nominal force. Any difficulty doing so would indicate an incorrect alignment.
- 2. Select a proper size drive bit and insert into the quick change holder.
- 3. Depress the trigger to engage the LED light and the tool starts to work. Check the torque on the digital tester to see if the desired torque reached. If not, adjust the torque to either tighten or loosen the valve spring.
- 4. When the torque is reach, the tool will shut off automatically.

## 8.1 Forward/ Reverse Rotation Switch Operation

To prevent damage, do not press Forward/Reverse button until the anvil comes a complete stop.

## 8.2 Forward Rotation Operation

The tool is in forward operation if the green/yellow light is not on.

## 8.3 Reverse Rotation Operation

By long press on the F/R switch, users are able to choose the mode of Reverse operation, either automatic or manual.

Mode 1 : Automatic – Tool returns to Forward operation automatically after reverse operation. Mode 2 : Manual – Tool needs to be adjusted manually to return to Forward operation after reverse operation.

How to adjust: Long press on the F/R switch and release it as seeing the green/yellow light is flashing quickly. The mode is transformed successfully.

## 8.4 The process to lock the Reverse

- 1. To remove the battery pack
- 2. To press one of the F/R switches.
- 3. To insert the battery pack.
- 4. After 6 sec., releasing the F/R switch while the warning noise sounding.

5. When the warning noise sounds again means the setting completed.

**Note :** When the Reverse Locked mode set, the tool will always run at forward direction, the reverse switches will be lost their function.

6. To do the process 1~5 to remove the reverse lock function.

#### 8.5 The process to adjust the impulse setting

To press the impulse setting button until the number blinking, and choose the proper number, then press the trigger or wait for 5 secs to complete the impulse setting.

#### 8.6 The process to lock the impulse settings

- 1) To remove the battery pack
- 2) To press the trigger and one of the F/R switches at the same time.
- 3) To insert the battery pack.
- 4) To wait for 5 secs until the beep sounds heard; meanwhile, release the trigger and F/R switch together. Then the impulse setting is locked.
- 5) To do the same process as above, the impulse setting will be unlocked.



# 9 TORQUE ADJUSTMENT and TEST

- 1) For models DPTC-25 HD1/4, DPTC-25 SD3/8, DPTC-35 HD1/4, DPTC-35 SD3/8, DPTC-45 SD3/8
- Wrench : Rotate the anvil manually ; make the valve screw inside the pulse unit aim at the hole. Then, use the attached tool to adjust the torque. Torque increased by turning clockwise and vice versa.

**Note:** To avoid danger during the adjustment process, the battery pack must be removed before adjusting the torque.





2)For models DPTC-15 HD1/4, DPTC-15 SD3/8

• Use the attached tool (2.5mm) to loosen the screw on the Front Cover Assembly.

**Note:** To avoid danger during the adjustment process, the battery pack must be removed before adjusting the torque.



 Rotate the anvil manually ; make the valve screw inside the pulse unit aim at the hole. Then, use the attached tool (1.5mm) to adjust the torque.

Torque increased by turning clockwise and vice versa.



Front cover : it is necessary to loosen it to achieve the oil pulse unit maintenance. Once done tighten the front cover again at 1,2 Nm with loctite 243.

• Use the attached tool (2.5mm) to tighten the screw back to the Front Cover Assembly.

#### HOW TO TEST TORQUE

## Test method:

1) Static measurement



#### 2) Dynamic measurement





X Always verify the dynamic measurement by a static check with a digital torque wrench.

# 10 LED indications and Beeper- Trouble shooting

# 10.1 LED indicator and beeper on the tool shows the following status

Status of the LED indicator and beeper	Status of the tool	Action to be taken
Light up in red, yellow and green together for one second. A long beep for one second.	The tool is OK to use.	-
Light up in red for one second. A long beep for one second.	The preset torque is not reached	The screwing fastener must be performed again.
Light up in green.	The preset torque is reached and the tightening is OK.	-
Blinks in yellow for five times. Five short beeps.	The battery power becomes low.	Replace the battery with fully charged one.
Light up in yellow for five second. A long beep for five second.	The battery power is used up, the tool stops immediately.	Replace the battery with fully charged one.
Yellow light & green light are blinking at the same time.	The tool is in reverse operation.	-

## **10.2 Troubles Shooting**

# ERROR Mode : Display by LED

Error Mode Error Cause \$		Solutions		
E2	Motor overheated	To remove battery pack and put aside f cooling		
E3	Motor damaged	To send back to repair center for checking		
E4	Trigger damaged	To send back to repair center for checking		
	Dulas unit demaged or	Damaged: To replace the pulse unit		
E8	overheated	Overheat: To put aside for cooling and reattach the battery pack after the pulse unit cool down.		

# **11 CHARGER & LI-ION BATTERY**

## 11.1 Charging the battery - for Li-ion battery [NOTE]

- When charging a cool battery pack (below 0°C(32°F)) in a warm place, leave the battery pack at the place and wait for more than one hour to warm up the battery to the level of the ambient temperature. Otherwise battery pack may not be fully charged.
- Cool down the charger when charging more than two battery packs consecutively.
- Do not insert your fingers/nails into contact hole, when holding charger or any other occasions.

1) Place charger in a relatively cool and well-ventilated area.

2) Plug charger into the AC outlet.

**CAUTION**: Ensure that the power source to be utilized conforms to the power requirement specified on the product nameplate.

3) Turn the battery up-side-down and slide the battery into charger while keeping the alignment marks line up. Slide the forward in the direction of the arrow. Do not force battery as it should slide easily into place with nominal force. Any difficulty doing so would indicate an incorrect alignment.



- 4) If the power lamp (red) does not light immediately or goes out soon after the charger is plugged in, consult an authorized dealer.
- 5) During charging, the charging lamp (green) will start flashing. When charging is completed, an internal electronic switch will automatically be triggered to prevent overcharging. Charging will not start if the battery pack is warm. For example, immediately after heavy-duty
- operation. The yellow standby lamp will be flashing until the battery cools down.
- 6) If the temperature of the battery pack is 0°C or less, charging takes longer to fully charge the battery pack than the standard charging time. Even when the battery is fully charged, it will have approximately 50% of the power of a fully charged battery at normal operation temperature.
- 7) Once the battery is fully charged, the green lamp will be lit to indicate the gone into a trickle charge mode.

## 11.2 Li-ion Battery Pack [NOTE]

- 1. Your battery pack is not fully charged at the time of purchase. Be sure to charge the battery before first use.
- 2. Remove the battery pack when the tool is idle for a long time.
- 3. Recharge the battery pack once every 6 months even if the battery is not in use.

## 11.3 Lamp Indications



# 12 SPECIFICATIONS

MODEL	DPTC-15 HD1/4	DPTC-15 SD3/8	
Voltage	18 VDC	18 VDC	
Drive Size	6.35 mm Hex. (1/4")	9.5 mm Sq. (3/8")	
Torque Range	7~13 N-m (5.2~9.6 ft-lb)	8~15 N-m (5.9~11 ft-lb)	
Free Speed	4,500 r.p.m	4,500 r.p.m	
Weight W/O Battery	1.15 kg (2.54 lb)	1.14 kg (2.51 lb)	
Battery Type	Li-ion 2.0 / 4.0 Ah	Li-ion 2.0 / 4.0 Ah	
Pulse unit Type	Shut-off	Shut-off	
MODEL	DPTC-25 HD1/4	DPTC-25 SD3/8	
ITEM MODEL Voltage	DPTC-25 HD1/4 18 VDC	DPTC-25 SD3/8 18 VDC	
MODEL ITEM Voltage Drive Size	DPTC-25 HD1/4 18 VDC 6.35 mm Hex. (1/4")	DPTC-25 SD3/8 18 VDC 9.5 mm Sq. (3/8")	
MODEL ITEM Voltage Drive Size Torque Range	DPTC-25 HD1/4 18 VDC 6.35 mm Hex. (1/4") 14~23 N-m (10.3~17 ft-lb)	DPTC-25 SD3/8 18 VDC 9.5 mm Sq. (3/8") 15~25 N-m (11~18.4 ft-lb)	
MODEL ITEM Voltage Drive Size Torque Range Free Speed	DPTC-25 HD1/4 18 VDC 6.35 mm Hex. (1/4") 14~23 N-m (10.3~17 ft-lb) 4,500 r.p.m	DPTC-25 SD3/8 18 VDC 9.5 mm Sq. (3/8") 15~25 N-m (11~18.4 ft-lb) 4,500 r.p.m	
MODEL ITEM Voltage Drive Size Torque Range Free Speed Weight W/O Battery	DPTC-25 HD1/4 18 VDC 6.35 mm Hex. (1/4") 14~23 N-m (10.3~17 ft-lb) 4,500 r.p.m 1.25 kg (2.76 lb)	DPTC-25 SD3/8 18 VDC 9.5 mm Sq. (3/8") 15~25 N-m (11~18.4 ft-lb) 4,500 r.p.m 1.24 kg (2.73 lb)	
MODEL ITEM Voltage Drive Size Torque Range Free Speed Weight W/O Battery Battery Type	DPTC-25 HD1/4 18 VDC 6.35 mm Hex. (1/4") 14~23 N-m (10.3~17 ft-lb) 4,500 r.p.m 1.25 kg (2.76 lb) Li-ion 2.0 / 4.0 Ah	DPTC-25 SD3/8 18 VDC 9.5 mm Sq. (3/8") 15~25 N-m (11~18.4 ft-lb) 4,500 r.p.m 1.24 kg (2.73 lb) Li-ion 2.0 / 4.0 Ah	
MODEL ITEM Voltage Drive Size Torque Range Free Speed Weight W/O Battery Battery Type Pulse unit Type	DPTC-25 HD1/4 18 VDC 6.35 mm Hex. (1/4") 14~23 N-m (10.3~17 ft-lb) 4,500 r.p.m 1.25 kg (2.76 lb) Li-ion 2.0 / 4.0 Ah Shut-off	DPTC-25 SD3/8 18 VDC 9.5 mm Sq. (3/8") 15~25 N-m (11~18.4 ft-lb) 4,500 r.p.m 1.24 kg (2.73 lb) Li-ion 2.0 / 4.0 Ah Shut-off	

MODEL	DPTC-35 HD1/4	DPTC-35 SD3/8
Voltage	18 VDC	18 VDC
Drive Size	6.35 mm Hex. (1/4")	9.5 mm Sq. (3/8")
Torque Range	20~31 N-m (14.8~22.9 ft-lb)	22~35 N-m (16.2~25.8 ft-lb)
Free Speed	3,500 r.p.m	3,500 r.p.m
Weight W/O Battery	1.35 kg ( <b>2.97 lb</b> )	1.34 kg (2.95 lb)
Battery Type	Li-ion 2.0 / 4.0 Ah	Li-ion 2.0 / 4.0 Ah
Pulse unit Type	Shut-off	Shut-off

MODEL	DPTC-45 SD3/8	
Voltage	18 VDC	
Drive Size	9.5 mm Sq. (3/8")	
Torque Range	32~45 N-m (23.6~33.2 ft-lb)	
Free Speed	3,500 r.p.m	
Weight W/O Battery	1.41 kg (3.11 lb)	
Battery Type	Li-ion 2.0 / 4.0 Ah	
Pulse unit Type	Shut-off	

#### 13 NOISE AND VIBRATION LEVEL DECLARATION (Max. value) EN 60745-2-2

Model : DPTC-15 HD1/4 DPTC-	15 SD3/8	
Sound pressure level (no load/load)	LpA : 67.7 / 72.1 dBA	Uncertainty K : 1.5 dB
Sound power level (no load/load)	LwA : 78.7 / 83.1 dBA	Uncertainty K : 1.5 dB
Vibration total value (load)	ahd : 6.3 m/s²	Uncertainty K : 1.5 m/s²
Model : DPTC-25 HD1/4 DPTC-	25 SD3/8	
Sound pressure level (no load/load)	LpA : 66.5 / 74.1 dBA	Uncertainty K : 1.5 dB
Sound power level (no load/load)	LwA : 77.5 / 85.1 dBA	Uncertainty K : 1.5 dB
Vibration total value (load)	ahd : 7.7 m/s²	Uncertainty K : 1.5 m/s²
Model : DPTC-35 HD1/4 DPTC-	35 SD3/8	
Sound pressure level (no load/load)	LpA : 66.1 / 73.5 dBA	Uncertainty K : 1.5 dB
Sound power level (no load/load)	LwA : 77.1 / 84.5 dBA	Uncertainty K : 1.5 dB
Vibration total value (load)	ahd : 8.4 m/s²	Uncertainty K : 1.5 m/s <sup>2</sup>
Model : DPTC-45 SD3/8		
Sound pressure level (no load/load)	LpA : 64.0 / 77.0 dBA	Uncertainty K : 1.5 dB
Sound power level (no load/load)	LwA : 75.0 / 88.0 dBA	Uncertainty K : 1.5 dB
Vibration total value (load)	ahd : 13.3 m/s²	Uncertainty K : 1.5 m/s²

The declared noise levels and vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another. The declared noise levels and vibration total value may also be used in a preliminary assessment of exposure.

#### WARNING:

- The noise and vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used; and

- Need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

# 14 EXPLODED VIEW and PART LIST

# 14.1 DPTC-15 HD1/4 - 18V Cordless Shut off Impulse Tool (7~13 N-m)



Index No	Part No.	Description		Q'ty	Index No	Part No.	Description		Q'ty
1H	32001-PWAP(S)	Upper Housing		1	35	00-3436	Pin	1*	
2H	32002-PWAP(S)	Lower Housing		1	36	00-3435	Pin	2*	
3	000-0930	Screw ( <sub>ψ</sub> 3 <sub>×</sub> 14L)		7	37	I40S-453	Spring	1*	
4	000-0831	Screw ( <sub>ψ</sub> 3 <sub>X</sub> 8L)		2	38	IS40S-421	Pressure Valve	1*	
5	C10PW15#W2	Cover		1	39	00-41173	O-Ring	1*	
6G	C09PW15-3#W2	Button		1	41B	D55PW15	Valve	1*	
7G	B76PW15-1	LED Indicator Board		1	42	180-411	Valve Screw	1*	
8	B09PW15-1#B1	F/R Valve (1set <sub>×</sub> 2pcs)		1	43	00-41113	O-Ring	2*	
9	D48PW15-1	Spring		1	44	180-422	Back Up Ring	1*	
10G	B76IWT	PC Board		1	45	140SD-405	Anvil	1*	
11G	B86PW15	Connector Wire		1	47	I40S-407	Spring	2*	
12F	B09PW#B1	Trigger Assembly		1	48	I40S-406-B	Drive Blade	2*	
13	D48PW15	Spring		1	49	I40S-452	Roller	2*	
14G	C39PW15-C	Ring		2	50	I40S-408	Front Plate	1*	
150	B83PW15-1	Brushless Motor ;w/drive	er	1	51	00-2602	X-Ring	1*	
150	(1)C06180C#B1	Connector	1		52	140-409	Back Up Ring	1*	
16E	000-1341C	Screw		4	53	I40S-403-B	Front Cover	1*	
18F	B50PW15-1B	Gear Box Assembly		1	54	00-3318	Spring Pin	2*	
1⊚ F	B51PW15-B	Gear Cage Assembly		1	55	170-410	Greasing Screw	1*	
21E	D39PW15-1B	Washer	1	/	56	I40S-401	Pulse Cylinder Seat	1*	
22	000-3440	Pin	3		57B	I40S-424	Washer		1
23	D49PW15-1	Planet Gear	3			B41PW15#BW	Front Cover Assembly		1
24	D51PW15	Gear Cage	1	1/	58G	(1)D41PW15#BW	Front Cover	1	
25F	D39PW15-B	Washer	1	/		(2)D42PW15	Bushing	1	
	B52PW15#BW	Housing Cover Assembly	/	1	46	000-3834	Steel Ball (ψ 3.175)		2
26G	(1)D52PW15#BW	Housing Cover	1		59B	I40SD-417	Quick Change Holder		1
	(2)000-2338	Ball Bearing(6902-2RS)	1		60B	I40SD-418	Spring		1
27	000-0840	Screw ( <sub>ψ</sub> 4 <sub>×</sub> 25L)		4	61B	I40SD-419	Hold Spacer		1
28F	D39PW15-4	Washer		1	62B	757-026	Anvil Collar		1
2⊚ C	BI40SD-400ASM	Pulse unit		1	66B	C39PW15-3	Washer		1
29	I40S-402	Lock Nut	1*	/	67B	000-4114	O-Ring		1
30	I40S-415	Rear Plate	1*	1 /	68B	1100-410	Greasing Screw		1
31	00-41127	O-Ring	2*		69F	D49PW15-2	Gear Ring		1
32	I40S-454	Block Cap	1*	1 /	71F	000-1840	Spring Washer		4
33	00-3407	Pin	2*	1/	72F	B86PW-1	Connector Wire		1
34	I40S-404-B	Pulse Cylinder	1*	/					



	Or -	-66F Loctite 277					Edition: H	
Index No	Part No.	Description		Q'ty	Index No	Part No.	Description	
1H	32001-PWAP(S)	Upper Housing		1	34	I40S-404-B	Pulse Cylinder	1*
2H	32002-PWAP(S)	Lower Housing		1	35	00-3436	Pin	1*
3	000-0930	Screw (ψ 3×14L)		7	36	00-3435	Pin	2*
4	000-0831	Screw (ψ 3×8L)		2	37	I40S-453	Spring	1*
5	C10PW15#W2	Cover		1	38	IS40S-421	Pressure Valve	1*
6G	C09PW15-3#W2	Button		1	39	00-41173	O-Ring	1*
7G	B76PW15-1	LED Indicator Board		1	41B	D55PW15	Valve	1*
8	B09PW15-1#B1	F/R Valve (1set <sub>X</sub> 2pcs)		1	42	180-411	Valve Screw	1*
9	D48PW15-1	Spring		1	43	00-41113	O-Ring	2*
10G	B76IWT	PC Board		1	44	180-422	Back Up Ring	1*
11G	B86PW15	Connector Wire		1	45	I40S-405-B	Anvil	1*
12F	B09PW#B1	Trigger Assembly		1	46	I40S-407	Spring	2*
13	D48PW15	Spring		1	47	I40S-406-B	Drive Blade	2*
14G	C39PW15-C	Ring		2	48	I40S-452	Roller	2*
150	B83PW15-1	Brushless Motor ;w/driver		1	49	I40S-408	Front Plate	1*
199	(1)C06180C#B1	Connector	1		50	00-2602	X-Ring	1*
16E	000-1341C	Screw		4	51	140-409	Back Up Ring	1*
18F	B50PW15-1B	Gear Box Assembly		1	52	I40S-403-B	Front Cover	1*
1⊚ F	B51PW15-B	Gear Cage Assembly		1	53	00-3318	Spring Pin	2*
21E	D39PW15-1B	Washer	1	/	54	170-410	Greasing Screw	1*
22	000-3440	Pin	3	1 /	55	I40S-401	Pulse Cylinder Seat	1*
23	D49PW15-1	Planet Gear	3	1 /	56B	I40S-424	Washer	
24	D51PW15	Gear Cage	1	1/		B41PW15#BW	Front Cover Assembly	
25F	D39PW15-B	Washer	1	1/	57G	(1)D41PW15#BW	Front Cover	1

1

4

1

1

1

1

1'

1\*

2\*

1\*

2\*

61B

62B

63B

64F

66F

67F

68G

(2)D42PW15

C39PW15-3

D49PW15-2

420-04183-11

(1)430-SW40-283-0462-11

(2)430-SW40-283-0464-10

(3)430-SW40-283-0463-11

000-4114

1100-410

000-1840

B86PW-1

Bushing

Washer

O-Ring

Gear Ring

Greasing Screw

Spring Washer

**Connector Wire** 

Pin Retainer

Upper Pin

Lower Pin

Spring

Housing Cover Assembly

Ball Bearing(6902-2RS)

Screw (ψ 4×25L)

Housing Cover

Washer

Pulse unit

Rear Plate

Block Cap

Lock Nut

O-Ring

Pin

#### 14.2 DPTC-15 SD3/8 - 18V Cordless Shut off Impulse Tool (8~15 N-m)

Ind N

26G

27

28F

29

30

31

32

33

B52PW15#BW

(2)000-2338

000-0840

20 C BI40S-400ASM

I40S-402

I40S-415

00-41127

I40S-454

00-3407

D39PW15-4

(1)D52PW15#BW

Q'ty

1

1

1

1

1

1

4

1

1

1

1

1

## 14.3 DPTC-25 HD1/4 - 18V Cordless Shut off Impulse Tool (14~23 N-m)



Index No	Part No.	Description		Q'ty	Index No	Part No.	Description		Q'ty
1H	32001-PWAP(S)	Upper Housing		1	34	I70-404-B	Pulse Cylinder 1*		
2H	32002-PWAP(S)	Lower Housing		1	35	00-3436	Pin	1*	
3	000-0930	Screw ( <sub>ψ</sub> 3×14L)		7	36	00-3435	Pin	2*	
4	000-0831	Screw (ψ 3x8L)		2	37	1705-453	Spring	1*	
5	C10PW15#W2	Cover		1	38	IS40S-421	Pressure Valve	1*	
6G	C09PW15-3#W2	Button		1	39	00-41173	O-Ring	1*	
7G	B76PW15-1	LED Indicator Board		1	41B	D55PW25	Valve 1*		
8	B09PW15-1#B1	F/R Valve (1setx2pcs)		1	42	180-411	Valve Screw	1*	
9	D48PW15-1	Spring		1	43	00-41113	O-Ring	2*	
10G	B76IWT	PC Board		1	44	180-422	Back Up Ring	1*	
11G	B86PW15	Connector Wire		1	45	170SD-405	Anvil	1*	
12F	B09PW#B1	Trigger Assembly		1	47	170-407	Spring	2*	
13	D48PW15	Spring		1	48	I70-406-B	Drive Blade	2*	
14G	C39PW15-C	Ring		2	49	170-452	Roller	2*	
150	B83PW25-1	Brushless Motor ;w/driver		1	50	170-408	Front Plate	1*	
150	(1)C06180C#B1	Connector	1		51	00-2602	X-Ring	1*	
16E	000-1341C	Screw		4	52	170-409	Back Up Ring	1*	
18F	B50PW15-1B	Gear Box Assembly		1	53	170-403	Front Cover	1*	11
1⊚ F	B51PW15-B	Gear Cage Assembly		1	54	00-3318	Spring Pin	2*	
21E	D39PW15-1B	Washer	1		55	170-410	Greasing Screw	1*	/
22	000-3440	Pin	3		56	170-401	Pulse Cylinder Seat	1*	
23	D49PW15-1	Planet Gear	3		57B	I40S-424	Washer		1
24	D51PW15	Gear Cage	1	]/		B41PW35#BW	Front Cover Assembly		1
25F	D39PW15-B	Washer	1	V	58G	(1)D41PW35#BW	Front Cover	1	
	B52PW15#BW	Housing Cover Assembly	/	1	Ī	(2)140S-202	Bushing	1	$\vee$
26G	(1)D52PW15#BW	Housing Cover	1		46	000-3842	Steel Ball (ψ 4)		2
	(2)000-2338	Ball Bearing(6902-2RS)	1		59B	170SD-417	Quick Change Holder		1
27	000-0840	Screw (ψ 4×25L)		4	60B	170SD-418	Spring		1
28F	D39PW15-4	Washer		1	61B	170SD-419	Hold Spacer		1
2⊚ C	BI70SD-400ASM	Pulse unit		1	62B	170SD-465	Anvil Collar		1
29	170-402	Lock Nut	1*		66B	C39PW15-3	Washer		1
30	170-415	Rear Plate	1*		67F	D49PW15-2	Gear Ring		1
31	00-41160	O-Ring	2*		69F	000-1840	Spring Washer		4
32	I40S-454	Block Cap	1*	]/	70F	B86PW-1	Connector Wire		1
33	00-3407	Pin	2*	V					



14.4	<b>DPTS-25</b> \$	SD3/8 - 18\	/ Cordless	Shut off In	npulse T	ool ('	15~25 N	<b>-m</b> )
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Index No	Part No.	Description		Q'ty	Index No	Part No.	Description		Q'ty
1H	32001-PWAP(S)	Upper Housing		1	33	00-3407	Pin	2*	
2H	32002-PWAP(S)	Lower Housing		1	34	I70-404-B	Pulse Cylinder	1*	1
3	000-0930	Screw ( <sub>ψ</sub> 3 <sub>×</sub> 14L)		7	35	00-3436	Pin	1*	1
4	000-0831	Screw ( <sub>ψ</sub> 3 <sub>×</sub> 8L)		2	36	00-3435	Pin	2*	1
5	C10PW15#W2	Cover		1	37	I70S-453	Spring	1*	1
6G	C09PW15-3#W2	Button		1	38	IS40S-421	Pressure Valve	1*	1
7G	B76PW15-1	LED Indicator Board		1	39	00-41173	O-Ring	1*	1
8	B09PW15-1#B1	F/R Valve (1set <sub>X</sub> 2pcs)		1	41B	D55PW25	Valve	1*	1
9	D48PW15-1	Spring		1	42	180-411	Valve Screw	1*	1
10G	B76IWT	PC Board		1	43	00-41113	O-Ring	2*	1
11G	B86PW15	Connector Wire		1	44	180-422	Back Up Ring	1*	1
12F	B09PW#B1	Trigger Assembly		1	45	I70-405-B	Anvil	1*	1
13	D48PW15	Spring		1	46	170-407	Spring	2*	1 /
14G	C39PW15-C	Ring		2	47	I70-406-B	Drive Blade	2*	1
150	B83PW25-1	Brushless Motor ;w/drive	er	1	48	170-452	Roller	2*	1/
150	(1)C06180C#B1	Connector	1		49	170-408	Front Plate	1*	1/
16E	000-1341C	Screw		4	50	00-2602	X-Ring	1*	1/
18F	B50PW15-1B	Gear Box Assembly		1	51	170-409	Back Up Ring	1*	1/
1⊚ F	B51PW15-B	Gear Cage Assembly		1	52	170-403	Front Cover	1*	1/
21E	D39PW15-1B	Washer	1	/	53	00-3318	Spring Pin	2*	1/
22	000-3440	Pin	3		54	170-410	Greasing Screw	1*	1
23	D49PW15-1	Planet Gear	3		55	170-401	Pulse Cylinder Seat	1*	1
24	D51PW15	Gear Cage	1		56B	I40S-424	Washer		1
25F	D39PW15-B	Washer	1	V		B41PW35#BW	Front Cover Assembly		1
	B52PW15#BW	Housing Cover Assembly	у	1	57G	(1)D41PW35#BW	Front Cover	1	
26G	(1)D52PW15#BW	Housing Cover	1		1	(2)I40S-202	Bushing	1	V
	(2)000-2338	Ball Bearing(6902-2RS)	1		61B	C39PW15-3	Washer		1
27	000-0840	Screw ( <sub>ψ</sub> 4 <sub>×</sub> 25L)		4	62F	D49PW15-2	Gear Ring		1
28F	D39PW15-4	Washer		1	64F	000-1840	Spring Washer		4
2⊚ C	BI70-400ASM	Pulse unit		1	65F	B86PW-1	Connector Wire		1
29	170-402	Lock Nut	1*	/		420-04183-11	Pin Retainer		1
30	170-415	Rear Plate	1*		660	(1)430-SW40-283-0462-11	Upper Pin	1	/
31	00-41160	O-Ring	2*		000	(2)430-SW40-283-0464-10	Spring	1	1 /
32	I40S-454	Block Cap	1*	V		(3)430-SW40-283-0463-11	Lower Pin	1	V

# 14.5 DPTC-35 HD1/4 - 18V Cordless Shut off Impulse Tool (20~31 N-m)



Index No	Part No.	Description		Q'ty	Index No	Part No.	Description		Q'ty
1F	32001-PWAP(L)	Upper Housing		1	32	00-3407	Pin 2'		
2F	32002-PWAP(L)	Lower Housing		1	33	I70-404-B	Pulse Cylinder	1*	1
3	000-0930	Screw (ψ 3×14L)		7	34	00-3436	Pin 1'		1
4	000-0831	Screw (y 3x8L)		2	35	00-3435	Pin	2*	1
5	C10PW15#W2	Cover		1	36	1705-453	Spring	1*	1
6E	C09PW15-3#W2	Button		1	37	IS40S-421	Pressure Valve	1*	1
7E	B76PW15-1	LED Indicator Board		1	38	00-41173	O-Ring	1*	1
8	B09PW15-1#B1	F/R Valve (1set <sub>×</sub> 2pcs)		1	39	D55PW25	Valve	1*	1
9	D48PW15-1	Spring		1	40	180-411	Valve Screw	1*	1
10E	B76IWT	PC Board		1	41	00-41113	O-Ring	2*	1
11E	B86PW15	Connector Wire		1	42	180-422	Back Up Ring	1*	1
12D	B09PW#B1	Trigger Assembly		1	43	170SD-405	Anvil	1*	1
13	D48PW15	Spring		1	45	170-407	Spring	2*	1
14	C39PW15-3	Washer		1	46	I70-406-B	Drive Blade	2*	1
15E	C39PW15-C	Ring		2	47	170-452	Roller	2*	1
165	B83PW35-1	Brushless Motor ;w/driver		1	48	170-408	Front Plate	1*	1
IOL	(1)C06180C#B1	Connector	1		49	00-2602	X-Ring	1*	1/
17C	000-1341C	Screw		4	50	170-409	Back Up Ring	1*	]/
19D	B50PW15-1B	Gear Box Assembly		1	51	170-403	Front Cover	1*	
1⊚ D	B51PW35-B	Gear Cage Assembly		1	52	00-3318	Spring Pin	2*	
20C	D39PW15-1B	Washer	1	/	53	170-410	Greasing Screw	1*	
21	000-3440	Pin	3		54	170-401	Pulse Cylinder Seat	1*	
22D	D49PW45-1	Planet Gear	3		55	I40S-424	Washer		1
23	D51PW35	Gear Cage	1			B41PW35#BW	Front Cover Assembly		1
24D	D39PW15-B	Washer	1	/	56E	(1)D41PW35#BW	Front Cover	1	
	B52PW15#BW	Housing Cover Assembly		1		(2)I40S-202	Bushing	1	$\vee$
25E	(1)D52PW15#BW	Housing Cover	1		44	000-3842	Steel Ball (ψ 4)		2
	(2)000-2338	Ball Bearing(6902-2RS)	1		57	I70SD-417	Quick Change Holder		1
26	000-0840	Screw (ų 4×25L)		4	58	I70SD-418	Spring		1
27D	D39PW15-4	Washer		1	59	170SD-419	Hold Spacer		1
2⊚	BI70SD-400ASM	Pulse unit		1	60	170SD-465	Anvil Collar		1
28	170-402	Lock Nut	1*		64D	D49PW35-2	Gear Ring		1
29	170-415	Rear Plate	1*		66D	000-1840	Spring Washer		4
30	00-41160	O-Ring	2*		67D	B86PW-2	Connector Wire		1
31	I40S-454	Block Cap	1*	V					



Index No	Part No.	Description		Q'ty	Index No	Part No.	Description		Q'ty
1H	32001-PWAP(L)	Upper Housing		1	33	00-3407	Pin	2*	
2H	32002-PWAP(L)	Lower Housing		1	34B	I70-404-B	Pulse Cylinder	1*	1
3	000-0930	Screw ( <sub>ψ</sub> 3 <sub>×</sub> 14L)	Screw ( <sub>w</sub> 3 <sub>X</sub> 14L)		35	00-3436	Pin	1*	1
4	000-0831	Screw (ψ 3x8L)		2	60B	00-3435	Pin	2*	1 /
5	C10PW15#W2	Cover		1	36B	I70S-453	Spring	1*	1 /
6G	C09PW15-3#W2	Button		1	37	IS40S-421	Pressure Valve	1*	1
7G	B76PW15-1	LED Indicator Board		1	38	00-41173	O-Ring	1*	1
8	B09PW15-1#B1	F/R Valve (1set <sub>×</sub> 2pcs)		1	40B	D55PW25	Valve	1*	
9	D48PW15-1	Spring		1	41	180-411	Valve Screw	1*	1
10G	B76IWT	PC Board		1	42	00-41113	O-Ring	2*	1
11G	B86PW15	Connector Wire		1	43	180-422	Back Up Ring	1*	1
12F	B09PW#B1	Trigger Assembly		1	44B	I70-405-B	Anvil	1*	
13	D48PW15	Spring		1	45B	170-407	Spring	2*	1
14G	C39PW15-C	Ring		2	46B	I70-406-B	Drive Blade	2*	1
150	B83PW35-1	Brushless Motor ;w/driver		1	47B	170-452	Roller	2*	1
150	(1)C06180C#B1	Connector	1		61B	170-408	Front Plate	1*	
16E	000-1341C	Screw		4	48	00-2602	X-Ring	1*	1/
18F	B50PW15-1B	Gear Box Assembly		1	49	170-409	Back Up Ring	1*	
1⊚ F	B51PW35-B	Gear Cage Assembly		1	50B	170-403	Front Cover	1*	
21E	D39PW15-1B	Washer	1	/	51B	00-3318	Spring Pin	2*	
22	000-3440	Pin	3		52	170-410	Greasing Screw	1*	
23F	D49PW45-1	Planet Gear	3		53B	170-401	Pulse Cylinder Seat	1*	
24	D51PW35	Gear Cage	1		54B	I40S-424	Washer		1
25F	D39PW15-B	Washer	1	V		B41PW35#BW	Front Cover Assembly		1
	B52PW15#BW	Housing Cover Assembly		1	55G	(1)D41PW35#BW	Front Cover	1	
26G	(1)D52PW15#BW	Housing Cover	1			(2)I40S-202	Bushing	1	$\vee$
	(2)000-2338	Ball Bearing(6902-2RS)	1	$\vee$	59B	C39PW15-3	Washer		1
27	000-0840	Screw (ψ 4×25L)		4	62F	D49PW35-2	Gear Ring		1
28F	D39PW15-4	Washer		1	64F	000-1840	Spring Washer		4
2⊚ C	BI70-400ASM	Pulse unit		1	65F	B86PW-2	Connector Wire		1
29B	170-402	Lock Nut	1*			420-04183-11	Pin Retainer		1
30B	170-415	Rear Plate	1*		660	(1)430-SW40-283-0462-11	Upper Pin	1	$\Box$
31B	00-41160	O-Ring	2*			(2)430-SW40-283-0464-10	Spring	1	] / [
32	I40S-454	Block Cap	1*			(3)430-SW40-283-0463-11	Lower Pin	1	V

# 14.6 DPTC-35 SD3/8 - 18V Cordless Shut off Impulse Tool (22~35 N-m)





Index No	Part No.	Description		Q'ty	Index No	Part No.	Description		Q'ty
1H	32001-PWAP(L)	Upper Housing		1	32	I40S-454	Block Cap	1*	
2H	32002-PWAP(L)	Lower Housing		1	33	00-3407	Pin	4*	1 /
3	000-0930	Screw (ψ 3 <sub>X</sub> 14L)	Screw (y 3x14L)		34	180-404	Pulse Cylinder	1*	1 /
4	000-0831	Screw ( <sub>ψ</sub> 3 <sub>×</sub> 8L)		2	35	00-3436	Pin	1*	1
5	C10PW15#W2	Cover		1	36	190-453	Spring	1*	
6G	C09PW15-3#W2	Button		1	37	IS40S-421	Pressure Valve	1*	
7G	B76PW15-1	LED Indicator Board		1	38	00-41173	O-Ring	1*	1
8	B09PW15-1#B1	F/R Valve (1set <sub>×</sub> 2pcs)		1	40B	D55PW45	Valve	1*	
9	D48PW15-1	Spring		1	41	180-411	Valve Screw	1*	
10G	B76IWT	PC Board		1	42	00-41113	O-Ring	2*	
11G	B86PW15	Connector Wire		1	43	180-422	Back Up Ring	1*	1
12F	B09PW#B1	Trigger Assembly		1	44	180-405	Anvil	1*	
13	D48PW15	Spring		1	45	180-407	Spring	2*	
14G	C39PW15-C	Ring		2	46	180-406	Drive Blade	2*	
150	B83PW45-1	Brushless Motor ;w/driver		1	47	190-452	Roller	2*	1/
133	(1)C06180C#B1	Connector	1		48	00-2602	X-Ring	1*	1/
16E	000-1341C	Screw		4	49	170-409	Back Up Ring	1*	1/
18F	B50PW15-1B	Gear Box Assembly		1	50	180-408	Front Plate	1*	
1⊚ F	B51PW35-B	Gear Cage Assembly		1	51	00-3325	Spring Pin	2*	
21E	D39PW15-1B	Washer	1	/	52	170-410	Greasing Screw	1*	
22	000-3440	Pin	3		53	180-401	Pulse Cylinder Seat	1*	
23F	D49PW45-1	Planet Gear	3		54B	I40S-424	Washer		1
24	D51PW35	Gear Cage	1	/		B41PW45#BW	Front Cover Assembly		1
25F	D39PW15-B	Washer	1	/	55G	(1)D41PW45#BW	Front Cover	1	
	B52PW15#BW	Housing Cover Assembly		1		(2)I40S-202	Bushing	1	$\vee$
26G	(1)D52PW15#BW	Housing Cover	1		59B	C39PW15-3	Washer		1
	(2)000-2338	Ball Bearing(6902-2RS)	1	$\vee$	60F	D49PW35-2	Gear Ring		1
27	000-0840	Screw ( <sub>ψ</sub> 4 <sub>×</sub> 25L)		4	62F	000-1840	Spring Washer		4
28F	D39PW15-4	Washer		1	63F	B86PW-2	Connector Wire		1
2⊚ C	BI80-400ASM	Pulse unit		1		420-04183-11	Pin Retainer		1
29	180-402	Lock Nut	1*	7	64G	(1)430-SW40-283-0462-11	Upper Pin	1	$\square$
30	180-415	Rear Plate	1*			(2)430-SW40-283-0464-10	Spring	1	
31	00-41212	O-Ring	2*	$\vee$		(3)430-SW40-283-0463-11	Lower Pin	1	V

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