CT30, CT30P, CT30QC, CTA30, CTE30, CTJ30, and CTU30 Cordless Impact Wrench

SAFETY INFORMATION

This manual contains important safety and operating instructions for ***Snap-on*** CT30, CT30P, CT30QC, CTA30, CTE30, CTJ30 and CTU30 Cordless Impact Wrenches. Refer to the information in this manual often for safe operation.

Read All Instructions

Read, understand, and follow all safety messages and instructions in this manual and on the tool.

General Warnings and Cautions

Snap-on Tools Company cannot anticipate or provide safety warnings and cautions to cover every situation that may be encountered when operating, servicing, or repairing this tool. It is the responsibility of operators and servicing technicians to be knowledgeable about the procedures, tools, and materials used, and to satisfy themselves that the procedures, tools, and materials will not comprise their safety.

Do not attempt to operate this tool until you have thoroughly read and completely understand all instructions and safety rules contained in this manual. Failure to comply can result in accidents involving fire, electric shock, or serious personal injury. Save this manual and review it frequently for continued safe operation and to instruct others who may use this tool.

To reduce the risk of fire, electric shock, and personal injury while using power tools always follow basic safety precautions, including the safety messages in this section.

Remember that this tool is always in an operating mode because it does not have to be plugged into an electrical outlet.

General Safety Rules—For All Battery Operated Tools

WARNING



Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

SAVE THESE INSTRUCTIONS

Work Area

WARNING



- **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- **Do not operate 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.

Electrical Safety

WARNING



- **Do not abuse the cord. Never use the cord to carry the battery charger. Keep cord away from heat, oil, sharp edges, or moving parts. Replace damaged cords immediately.** Damaged cords create a fire hazard.
- **A battery operated tool with integral batteries or a separate battery pack must be recharged only with the specified charger for the battery.** A charger that may be suitable for one type of battery may create a risk of fire when used with another battery.
- **Use battery operated tool only with specifically designated battery pack.** Use of any other batteries may create a risk of fire.

Personal Safety

WARNING



- **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.

- **Avoid accidental starting. Be sure switch is in the locked or off position before inserting battery pack.** Carrying tools with your finger on the switch or inserting the battery pack into a tool with the switch on invites accidents.
- **Remove adjusting keys or wrenches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enable better control of 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.

Tool Use and Care

WARNING

- **Use clamps or other practical ways to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
- **Do not force tool. 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 the tool if switch does not turn it on or off.** A tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect battery pack from tool or place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
- **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- **When battery pack is not in use, keep it away from metal objects like: paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.**
- Shorting the battery terminals together may cause sparks, burns, or fire.
- **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's 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 manufacturer for your model.** Accessories that may be suitable for one tool may create a risk of injury when used on another tool.

Service

WARNING

- **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel may 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 shock or injury.

Cordless Impact Wrench Safety

WARNING



Power tools can cause flying particles during use.
Wear safety goggles, user and bystanders.
Flying particles can cause injury.



Power tools generate noise.
Wear hearing protection, user and bystanders.
Prolonged exposure to noise can cause hearing loss.



Power tools vibrate.
Avoid prolonged exposure to vibration.
Prolonged exposure to vibration can cause injury.



Risk of entanglement.
- **Keep body parts away from rotating parts.**
- **Wear protective hair covering to contain long hair.**
- **Keep handle dry, clean and free from oil and grease.**
- **Do not lock or tape the trigger in the ON position.**
- **Remove the battery pack before changing accessories.**

Entanglement can cause injury.

WARNING

- **Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring. Contact with a "live" wire will also make exposed metal parts of the tool "live" and shock the operator.**
- **Use only impact sockets and accessories with these impact wrenches. Use of hand or power sockets will cause premature failure of the socket and possible injury to the user. Do not use chipped, cracked, or damaged sockets or accessories.**
- **The CT30, CT30P, CT30QC, CTA30, CTE30, CTJ30 and CTU30 feature a steel locking ring for retaining the sockets. The ring holds the socket in place by friction. It may be necessary to replace the ring periodically should socket retention become less than desired.**
- **Use only ball-joint flexible sockets. Use of square block type flexible sockets can cause injury, as they are not designed for impact use.**
- **When using extensions, hold the impact wrench so the socket fits straight on the fastener.**
- **Do not use the tool if it vibrates too much, makes unusual noises, has loose parts, or shows any other signs of damage.**
- **If tool malfunctions, discontinue use and immediately arrange for service and repair.**
- **Do not lubricate or clean tools with flammable or volatile liquids such as kerosene, gasoline, diesel, or jet fuel.**

WARNING

Risk of personal injury.

- **An impact wrench is not a torque control device.**
- **Do not use an impact wrench for torque control.**
- **Use a torque wrench for torque control.**

Improperly torqued fasteners can cause equipment damage that may result in personal injury.

Safety Rules for Battery

WARNING



Risk of explosion or fire.

- **Do not store the tool and battery in locations where the temperature may reach or exceed 120°F (49°C).**
- **Do not charge battery when temperature is below 32°F (0°C) or above 104°F (40°C).**
- **Do not incinerate the battery, even if severely damaged or completely exhausted. The battery may explode in fire.**
- **Cover the battery pack terminals with heavy adhesive tape after removing the battery pack.**
- **Do not attempt to destroy or disassemble the battery pack or remove any of its components.**
- **Do not charge using an engine generator or DC power source.**

Explosion or flames can cause injury.



Risk of electric shock.

- **Do not disassemble the battery.**
- **Do not short circuit the battery.**
- **Charge battery pack only with the charger provided.**
- **Disconnect battery pack when not in use, before servicing and when changing accessories.**
- **Do not charge using an engine generator or DC *power source.***

Electric shock or fire can cause injury.



Risk of burn.

- **Battery leakage may occur under conditions of extreme usage or temperature.**
- **If battery liquid comes in contact with skin, wash quickly with soap and water, then lemon juice or vinegar.**
- **If liquid gets in eyes, wash with water a minimum *of 10 times and seek medical attention immediately.***

Burns can cause injury.

Safety Rules for Battery Disposal



The ***RBRC™*** Seal on the nickel-cadmium battery contained in this product indicates that ***Snap-on*** is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life.

Snap-on's involvement in this program is part of its commitment to protecting our environment and conserving our natural resources.

Do not throw away used batteries! Placing spent nickel-cadmium batteries into the trash or a municipal waste stream is ILLEGAL in most areas. Return your battery to a ***Snap-on*** authorized repair center for recycling.

WARNING



Do not attempt to disassemble the battery or remove any component projecting from the battery terminals. Fire or injury may result. Prior to recycling, protect exposed terminals with heavy insulating tape to prevent shorting.

Safety Rules for Battery Charger

WARNING



Risk of electric shock and fire.
Do not insert battery pack into charger if case is cracked or damaged.
Electric shock and fire can cause injury.



Risk of explosion.
Wear safety goggles, user and bystander.
Explosion can cause eye injury.

WARNING

Improper use of power tools and accessories can cause broken tools.
Before using charger, read all instructions and cautionary markings on the charger, battery, and product using battery.
Broken tools can cause injury.



Risk of short circuit and fire.
- **Do not short battery pack.**
- **Do not touch the terminals with any conductive material.**
- **Avoid storing battery pack with conductive materials such as nails, screws, coins, and other metallic objects.**
- **Do not carry battery pack in aprons or pockets that contain conductive objects.**

Short circuit can cause fire and severe burns.

WARNING

Risk of explosion or fire.
- **Do not store battery pack in locations where the temperature may reach or exceed 120°F (49°C).**
- **Do not charge battery when temperature is below 32°F (0°C) or above 104°F (40°C).**
- **Charge battery pack in a well ventilated area.**
- **Do not incinerate the battery, even if severely damaged or completely exhausted. The battery may explode in fire.**

Explosion or flames can cause injury.



Risk of electric shock and fire.

1. **Use the CTC318, CTCF318 and CTCJ318 chargers only with the CTB100, CTB312, CTB314, CTB3145, CTB3147, CTB3184, CTB3185 and CTB3187 rechargeable battery packs. Charging any other types of batteries may burst, causing injury and damage.**
2. **Battery leakage may occur under conditions of extreme usage or temperature.**
   - **— If liquid comes in contact with skin, wash quickly with soap and water, then lemon juice or vinegar.**
   - **— If liquid gets in eyes, wash with water a minimum of ten times and seek medical attention immediately.**
3. **Never attempt to connect two chargers together.**
4. **Do not expose charger to rain or snow.**
5. **Pull by plug rather than cord when disconnecting charger.**
6. **Be sure the cord is not stepped on, tripped over, damaged or stressed.**
7. **Do not use an extension cord unless absolutely necessary. If an extension cord must be used, make sure tha**t the:
   - **— Pins on the plug of the extension cord are the same number, size and shape as those of the plug on the charger,**
   - **— Extension cord is properly wired and in good electrical condition, and**
   - **— Wire size is large enough for AC ampere rating of charger as follows:**

Recommended Extension Cord Length

100-120 Volt Charger Cord Length (feet)	Wire Size (AWG)
25’	18
50’	18
100’	18

220-240 Volt Charger Cord Length (meters)	Wire Size (millimeters)
50	0.75
75	1.0

8. **Do not operate charger with damaged cord or plug. Replace immediately.**
   - **— Cord replacement for CTC318 and CTCJ318 charger must be done at a Snap-on**

Authorized Service Center since special tools are required to replace it.

— Cord replacement for CTCF318 charger must be done with an identical cord.

9. The charger is not intended for use by young children or infirm persons without supervision.

— Young children should be supervised to ensure that they do not play with the charger.

10. Do not operate charger after it is dropped, has received a sharp blow or is damaged. Take the charger to an Authorized Service Center.

11. Do not disassemble charger. Take the charger to an Authorized Service Center when service or repair is required.

12. Unplug charger from outlet before maintenance or cleaning. Just turning off controls is not adequate to avoid hazard.

Electric shock or fire can cause injury.

SAVE THESE INSTRUCTIONS

Specifications

Cordless Impact Wrench

Drive Size	
CT30, CT30P	3/8" internal hex
CT30QC	1/4" internal hex
Tightening Torque	
CT30, CT30P	50 ft. lbs (68 N•m)
CT30QC	25 ft. lbs. (34 N•m)
Sound Pressure Level*	93.0 dBA
Sound Power Level*	106.0 dBA
VIbration Level**	2.0 m/s^2
Free Speed	1,600 RPM
Impacts per Minute	2,000
Motor Voltage	9.6 VDC
Weight with Battery Pack	3.2 lbs (1,450 kg)

** Tested in accordance with ISO Standard 3744 and Pneurop test code PN8NTC1 with tool loaded per ISO Standard 8662.*

***Tested in accordance with ISO Standard 8662-8.*

CTB100-100 Battery Pack

Voltage	9.6 VDC (1.2 V x 8 cells)
Type	Nickel-cadmium
Life 600 cycles	(1 cycle = 1 charge and 1 discharge)
Charge time	1 hr
Weight	1.1 lbs

Battery Charger

Input,	Model	Input
	CTC318	120V, 50/60 Hz
	CTCF318	220-240V, 50/60 Hz
	CTCJ318	100V, 50/60 Hz
Output Charge Current (all models)		3.0 Amps
Weight (all models)		1.6 lbs (0,73 kg)

Applications

- CT30 is designed for use with varying applications and when sockets must be removed often and by hand.
- CT30QC is designed for use when frequent screw driver bit changes are required.
  — Use ***Snap-on*** 1/4" hex screwdriver bits with CT30QC.
- CT30P has a pinned anvil for industrial applications that require positive retention of sockets and infrequent socket changes.

Battery Charging Method

1. Before charging, give the battery pack sufficient time to cool down after use.
2. Insert charger plug into the power source.
3. Insert battery pack in charger. Position the battery pack so that the battery sits flush with the top of the charger. The red indicator on the charger "blinks," indicating that the charger is checking the battery pack.
   — The charger will not fast charge a battery if the battery pack is too hot or too cold. The charger goes into a fast charge mode when battery temperature is between 32°F (0°C) and 105°F (41°C). During a fast charge, the red light stops blinking and remains solid red.
4. During a fast charge, the red charger indicator light illuminates. Standard fast charging time is one hour.
   — When the fast charge is complete, a switch inside the battery pack automatically turns off to prevent an over-charge and the green indicator light illuminates.
   — The green light indicates a maintenance charge. When the green charger light illuminates, a "trickle charge" current feeds the battery to maintain a full charge.

Operation

The ***Snap-on*** Cordless Impact Wrench is ideal for a wide variety of fastener turning jobs in both the industrial and automotive fields. When used with ***Snap-on*** impact sockets, it provides power and speed for greater job efficiency with less operator fatigue. The impact wrench also adds the freedom of movement not usually available with products requiring air hoses or electrical cords.

Socket Retainers

The impact wrench features a steel locking ring for retaining all types of impact sockets. The retainer holds the socket in place by friction. It may be necessary to replace the retainer periodically should socket retention become less than desired. The replacement number for the retainer is ***Snap-on*** part number ME7A148.

Using Screwdriver Bit Sockets

Two magnetic sockets are available from ***Snap-on*** (CTFBS8 and CTFBS9). They permit the use of screwdriver bits with the impact wrench. The magnetic properties of the sockets are not affected by the light impact of cord-free impact tools. The CTFBS8 is for use with 1/4" bits, the CTFBS9 with 5/16" bits. Both have 3/8" drives. These sockets are not recommended for use with flat blade bits.

The sockets are recommended for use with:

- ***Torx*** T-20 and larger bits
- ***Phillips*** No. 2 and larger bits
- 5/32" (1.6 mm) and larger hex bits

Disassembly/Assembly Instructions

Service

WARNING

- **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel may 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 shock or injury.

✓ The parts listed below are followed by numbers that are keyed to *Parts Listing* on page 9.

Disassembling the Housing

1. Remove the battery pack.
2. Remove the four rear cover screws (25) and two bottom handle screws (24) from the rear housing (26).
3. Set the forward/reverse lever on the switch assembly (23) to the neutral position.
4. Set the unit up on the rear housing (26) with the nose up.
5. Remove the front housing (2) by simultaneously pulling up on the front housing and pressing down on the end of the anvil (3). Everything internal can now be removed and inspected.

Assembling the Electric Motor and Ring Gear Subassembly

1. Place ring gear (17) on top of electric motor (19) and pinion gear (18) assemblies with screw holes in line.
2. Insert gear alignment fixture into ring gear (17), placing the pilot (center) hole over the pinion gear (18), and align screw clearance holes over the two mounting holes in the ring gear.
3. Insert the two motor screws (16) through the fixture clearance holes and thread into the electric motor (19). Torque to 12–18 in lbs. (1.0–1.4 N•m).
4. Press bearing (15) into pinion gear (18) until it bottoms.
5. Solder the red wire (20) and the black wire (21) to the electric motor terminals. The red wire (20) goes to the electric motor terminal with (-) mark on the plastic end plate.

Wiring the Switch Assembly

✓ Instructions are explained with the switch button facing the assembler and the forward/reverse lever positioned above the button.

1. With the button of the switch assembly (23) facing the assembler, insert the green wire into the right, top rear slot on the switch assembly.
2. Insert the blue wire into the right, bottom rear slot on the switch assembly (23).
3. Insert one end of yellow wire into the left, bottom front slot and the other end into the left, top front slot on the switch assembly (23).
4. Insert the black wire (21) into the right, top front slot and red wire (20) into the left, top rear slot on the switch assembly (23).
5. Position the switch (23), electric motor (19) and support terminal assembly (22) so the electric motor (19) is directly above the switch assembly (23) and the ring gear (17) is near the button on the switch. The support terminal assembly (22) should be directly below the base of the switch assembly (23).

Assembling the Electric Motor, Switch and Rear Housing Subassembly

1. Slide the switch assembly (23) between the switch supports and push back until the rear of the switch is resting against the rear housing switch stop.

   ✓ Route the green wire so it is not pinched between the switch and the stop.

2. Slide the support terminal assembly (22) into the slot located below the switch assembly (23) in the rear housing (26).
3. With wires bent between the casing of the electric motor (19) and the switch assembly (23), slide the electric motor (19) into the rear housing (26) until the flats on the legs of the ring gear (17) touch the bosses of the rear housing (26).

Assembling the Impact Mechanism and Gear Carrier Subassembly

1. Slide the eyelet (8) over the metal drive shaft of the gear carrier (12).
2. Slide the spring (7) over the shaft of the gear carrier (12) so it rests on the eyelet (8).
3. Slide the washer (6) over the shaft of the gear carrier (12) and rest on top of the spring (7).
4. Slide the thrust bearing (5) over the shaft of the gear carrier (12) so it rests on top of washer (6). Lubricate the thrust bearing (5) with grease, part number ME18A39.
5. Slide the hammer (4) over the shaft of the gear carrier (12), orientating the ball pocket on the hammer (4). Rest the hammer (4) on top of the thrust bearing (5).
6. Compress the spring (7) and insert a steel ball (9) into each ball pocket on the shaft of the gear carrier (12).

7. Slide the washer (14) down the plastic shaft of the gear carrier (12) opposite the hammer (4), spring (7) and eyelet (8). A dab of grease will hold the washer (14) in place.
8. Insert the O-ring (13) into the O-ring groove on the same end as the washer (14) used in step 7.
9. Insert a gear pin (10) into a planet gear (11).
10. Slide the planet gear (11) into one of the slots in the gear carrier (12). Insert the remaining planet gears (11) with gear pins (10) into the remaining slots.
11. While holding the planet gears (to prevent them from dropping out of the carrier), insert the carrier subassembly into the ring gear (17) and ensure a positive mesh. Push the carrier subassembly until the washer bottoms on top of bearing (15).

    ✓ The carrier subassembly will rotate smoothly when assembled correctly. If carrier does not rotate smoothly or wobbles, repeat step 11.
12. Lubricate the ball pockets on the shaft of the gear carrier (12), top of hammer (4) and inside of ring gear (17).
13. Lubricate the internal diameter and outer shaft of the anvil (3) and slide it onto the metal shaft of the gear carrier (12).

Final Assembly

1. Set the forward/reverse lever on the switch assembly (23) to neutral—in line with the button.
2. Slide the front housing (2) over the anvil and gear assembly. The switch button and forward/reverse lever will slide through the slot in the handle of the front housing (2). The support terminal assembly (22) slides into a slot in the front housing handle. Look into the bottom of the handle to make sure that the terminal support is assembled correctly between the rib of the housings.
3. Push the front and rear housings (2, 26) together and insert the four rear cover screws (25). Tighten in a crisscross pattern to 7–11 in lbs (0.8–1.2 N•m).
4. Insert the two bottom handle screws (24) and torque to 7–11 in lbs (0.8–1.2 N•m).

CT30QC Anvil Disassembly/Assembly

✓ See anvil (3-C) of the exploded view in *Figure 1*.

1. Press spring pin (C7) into anvil driver (C1). Make sure that spring pin is flush or below the shaft diameter.
2. Disassemble the unit and remove the front housing. Assemble anvil driver (C1) into the housing.
3. Assemble the unit. Other CT30QC parts will be added on assembled unit.
4. Assemble the ball (C5), retainer (C2), spring (C3) and ring guide (C4) in the order shown in exploded view.
5. Assemble retaining ring (C6) as shown in *Figure 1*. Assembly fixture is required for this operation. Make sure that retaining ring is properly seated in groove.
6. Insert 1/4" hex. bit and make sure that bit retention is satisfactory.

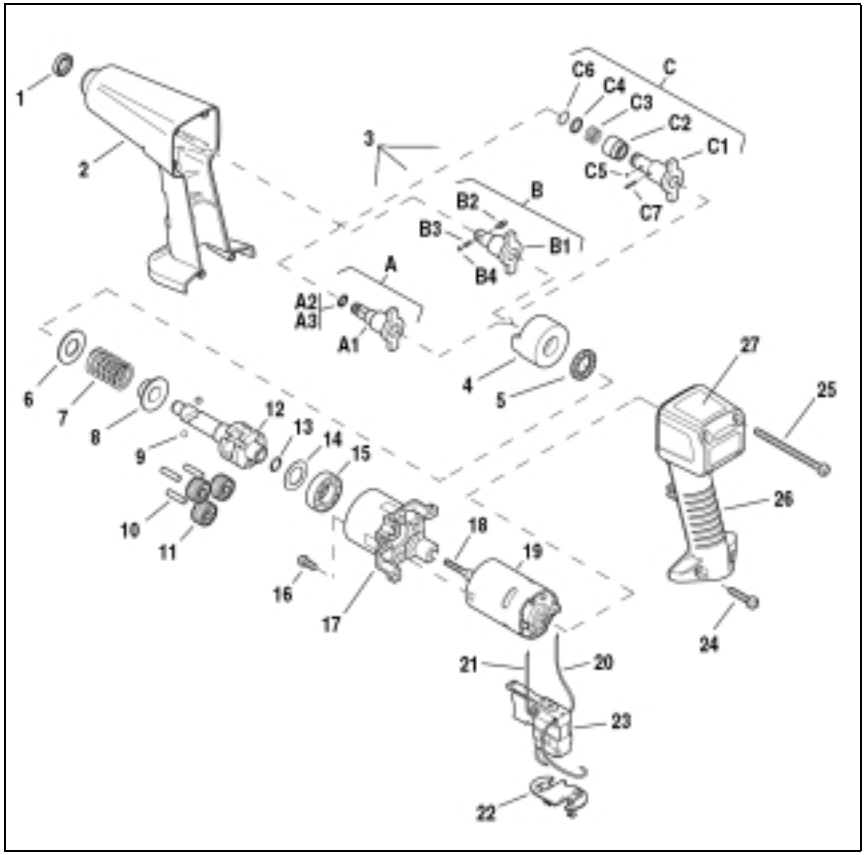


Figure 1: Exploded View – CT30, CT30P, CT30QC, CTA30, CTE30, CTJ30 and CTU30

Parts Listing

1 Nose seal (not used on CT30QC) ME6A12
2 Front housing CT30-101
3 Anvil

A CT30
A1 Anvil CT30-113
A2 O-ring ME7B63
A3 Retaining Ring ME7A148

B CT30P
B1 Anvil CT30P-113
B2 Plunger CT30P-120
B3 Spring CT30P-121
B4 Retainer CT30P-122

C CT30QC
C1 Anvil Driver CT30QC-113
C2 Ball Retainer (CT30QC) CT30QC-2
C3 Spring (CT30QC) CT30QC-3
C4 Ring Guide CT30QC-4
C5 Ball ME9A1
C6 Retaining ring ME7A179
C7 Spring Pin ME2A144

4 Hammer CT30-111
5 Thrust bearing ME11B16
6 Washer CT30-110
7 Spring ME1A218
8 Eyelet CT30-106
9 Ball (2) ME9A23
10 Gear pin (3) ME2A126
11 Planet gear (3) CT30-116A
12 Gear carrier CT30-160
13 O-ring ME7B52
14 Washer CT30-115
15 Bearing ME11A33A
16 Motor screw (2) ME3J43A
17 Ring gear CT30-105
18 Pinion gear CT30-108B
19 Electric motor 2-11066
20 Red wire, motor to switch CT30-311

21 Black wire, motor to switch CT30-312
Yellow wire, terminal to switch (not shown) . CT30-315
22 Support terminal assembly CT30-801R
23 Switch assembly CT30-153
24 Bottom handle screw (2) ME3L26A
25 Rear cover screw (4) ME3L25A
26 Rear housing CT30-102
27 CT30 Warning label SS1144A
— Grease (not shown) ME18A39
— Battery Pack (not shown) CTB100-100
— Battery Charger (not shown)

Wrench	Charger	Charger cord, if detachable
CT30	CTC318	N/A
CT30P	CTC318	N/A
CT30QC	CTC318	N/A
CTA30	CTCF318	CTCA900
CTE30	CTCF318	CTCE900
CTJ30	CTCJ318	N/A
CTU30	CTCF318	CTCU900

Notes:

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Snap-on Incorporated.
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Snap-on Incorporated.
Torx® is a registered trademark of
Snap-on Incorporated.

Declaration of Conformity

Snap-on Tools Company, 2801 80th Street,
Kenosha, WI 53141-1410, U.S.A.
declares under our sole responsibility that the products,
CTE30, CTE30P, CTE30QC, CTU30, CTU30P, CTU30QC
CORDLESS IMPACT WRENCHES,
to which this declaration relates, are in conformity with the following standard(s) or other normative document(s):
EN792 (Draft), EN292 Parts 1 & 2,
ISO8662-7, Pneurop PN8NTC1
following the provisions of 89/392/EEC as amended by 91/368/EEC & 93/44/EEC Directives.

We also declare under our sole responsibility that the product,
CTCF318 BATTERY CHARGER,
to which this declaration relates is in conformity with the following standard or standards or other normative document(s):
EN292 Part 1&2, ICE335-1 & -2-29,
EN55014, EN55104 and EN61000
following the provisions of 73/23/EEC as amended by 93/68/EEC, and 89/336/EEC as amended by 92/31/EEC & 93/68/EEC.



Gerald E. Seebeck, V.P./General Manager