UDBP-TA series
Cordless Automatic Shut-off Impulse Tools
UDBP-TA40/UDBP-TA40(P)/UDBP-TA50/UDBP-TA50(P)
UDBP-TA60/UDBP-TA60(P)/UDBP-TA70(P)

Instruction Handbook
for
UDBP-TA Series Cordless Hydraulic Impulse Tools

-Read and understand the safety instructions before installing, operating, repairing, maintaining, changing accessories on or working near the hydraulic impulse tool. Failure to follow the warnings and instructions in this handbook can result in electric shock, fire and/or serious bodily injury.
-Do not discard the safety and operating instructions. Give them to the operator. Save these instructions for future reference.
Intended Use: The tool is designed to tighten or loosen threaded fasteners.

- The tool is intended for professional use only.
- Avoid misuse and abuse of the tool. (e.g. Do not throw the tool on the floor, strike the housing in any way or use the tool as a hammer to knock material into place.)

Description

Hex key for Torque Adjustment

LED Work Light

Trigger

Reverse Lever

Rechargeable Li-ion Battery

Technical Specifications for Tools

<table>
<thead>
<tr>
<th>Model</th>
<th>Bolt Capacity</th>
<th>Torque Range Nm</th>
<th>Free Speed rpm</th>
<th>Overall Length mm</th>
<th>Weight (including battery) kg</th>
<th>Drive Shank Size mm</th>
<th>Sound Pressure Level dB(A)</th>
<th>Vibration Total Value m/s²</th>
<th>Vibration Uncertainty, K m/s²</th>
<th>Battery Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>UDBP-TA40</td>
<td>M5</td>
<td>4.5-8</td>
<td>4,800</td>
<td>208</td>
<td>1.4</td>
<td>6.35 Hex</td>
<td>75</td>
<td>&lt; 2.5</td>
<td>0.55</td>
<td>11.1V</td>
</tr>
<tr>
<td>UDBP-TA40(P)</td>
<td>M5</td>
<td>4.5-8</td>
<td>4,800</td>
<td>205</td>
<td>1.4</td>
<td>9.5 Sq</td>
<td>75</td>
<td>&lt; 2.5</td>
<td>0.53</td>
<td>11.1V</td>
</tr>
<tr>
<td>UDBP-TA50</td>
<td>M6-M8</td>
<td>6.5-13</td>
<td>4,800</td>
<td>208</td>
<td>1.4</td>
<td>6.35 Hex</td>
<td>76</td>
<td>&lt; 2.5</td>
<td>0.56</td>
<td>11.1V</td>
</tr>
<tr>
<td>UDBP-TA50(P)</td>
<td>M6-M8</td>
<td>7-15</td>
<td>4,800</td>
<td>205</td>
<td>1.4</td>
<td>9.5 Sq</td>
<td>76</td>
<td>&lt; 2.5</td>
<td>0.54</td>
<td>11.1V</td>
</tr>
<tr>
<td>UDBP-TA60</td>
<td>M8</td>
<td>13-26</td>
<td>4,800</td>
<td>223</td>
<td>1.7</td>
<td>6.35 Hex</td>
<td>77</td>
<td>&lt; 2.5</td>
<td>0.57</td>
<td>22.2V</td>
</tr>
<tr>
<td>UDBP-TA60(P)</td>
<td>M8</td>
<td>15-28</td>
<td>4,800</td>
<td>220</td>
<td>1.7</td>
<td>9.5 Sq</td>
<td>76</td>
<td>&lt; 2.5</td>
<td>0.55</td>
<td>22.2V</td>
</tr>
<tr>
<td>UDBP-TA70(P)</td>
<td>M8-M10</td>
<td>26-47</td>
<td>4,800</td>
<td>234</td>
<td>2.0</td>
<td>9.5 Sq</td>
<td>76</td>
<td>&lt; 2.5</td>
<td>0.57</td>
<td>33.3V</td>
</tr>
</tbody>
</table>

The uncertainty in the sound levels is 3dB(A).
Operating temperature range is between 0°C and 40°C.

These declared sound and vibration values given in the above table were obtained by laboratory type testing in accordance with EN 60745* for sound levels and ISO 26927-2 for vibration values and are not adequate for use in risk assessments. Values measured in individual work places may be higher than the declared values. The actual exposure values and risk of harm experienced by an individual user are unique and depend upon the way the user works, the workpiece and the workstation design, as well as upon the exposure time and the physical condition of the user.

We, URYU SEISAKU, LTD., cannot be held liable for the consequences of using the declared values, instead of values reflecting the actual exposure, in an individual risk assessment in a work place situation over which we have no control.

*The noise test methods in EN 60745 are pretty much aligned with ISO 15744.
Technical Specifications for Batteries

<table>
<thead>
<tr>
<th>Battery Model (URYU Part No.)</th>
<th>UB111Li (861-188-1)</th>
<th>UB222Li (861-182-1)</th>
<th>UB333Li (861-187-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tool Model</td>
<td>UDBP-TA40</td>
<td>UDBP-TA50 Series</td>
<td>UDBP-TA60 Series</td>
</tr>
<tr>
<td>Voltage</td>
<td>11.1V</td>
<td>22.2V</td>
<td>33.3V</td>
</tr>
<tr>
<td>Capacity</td>
<td>1.5Ah</td>
<td>1.5Ah</td>
<td>1.5Ah</td>
</tr>
<tr>
<td>Weight (Approx.)</td>
<td>0.29kg</td>
<td>0.45kg</td>
<td>0.61kg</td>
</tr>
</tbody>
</table>

Battery Power Indication LED

When you attach the battery to the tool or pull the trigger, the battery power indication LED will light for about 3 seconds. This LED indicates the battery remaining capacity by colour (see the below table).

<table>
<thead>
<tr>
<th>Capacity (%)</th>
<th>LED</th>
<th>Status / Necessary Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;10</td>
<td>Flashing Red</td>
<td>Flat battery - Stop using &amp; recharge</td>
</tr>
<tr>
<td>10~20</td>
<td>Red</td>
<td>Very low battery - Recharge urgently</td>
</tr>
<tr>
<td>21~40</td>
<td>Amber</td>
<td>Low battery – Recharge</td>
</tr>
<tr>
<td>41~100</td>
<td>Green</td>
<td>Keep using</td>
</tr>
<tr>
<td>Battery Fault</td>
<td>Flashing Red and Amber by turns</td>
<td>Replace the battery with a new one</td>
</tr>
</tbody>
</table>

Technical Specifications for Chargers

<table>
<thead>
<tr>
<th>Model (URYU Part No.)</th>
<th>UBC-A (861-185-1)</th>
<th>UBC-E (861-186-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>AC 100V ~ 240V</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Use URYU genuine power cable.)</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>100V : 225VA</td>
<td>240V : 295VA</td>
</tr>
<tr>
<td>Weight (Approx.)</td>
<td>1.6kg</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>5°C ~ 40°C</td>
<td></td>
</tr>
</tbody>
</table>

Optional Protectors

Optional battery protectors and casing protectors are available.

<table>
<thead>
<tr>
<th>Battery Protector</th>
<th>Casing Protector</th>
</tr>
</thead>
<tbody>
<tr>
<td>UDBP-TA40 series</td>
<td>863-976-1</td>
</tr>
<tr>
<td>UDBP-TA50 series</td>
<td>863-978-1</td>
</tr>
<tr>
<td>UDBP-TA60 series</td>
<td>863-977-1</td>
</tr>
<tr>
<td>UDBP-TA70(P)</td>
<td>863-978-1</td>
</tr>
</tbody>
</table>
Safety Instructions

General Safety

⚠️ WARNING

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Do not modify the tool. Modifications can reduce the effectiveness of safety measures and increase the risks to the operator.
- Stop using the tool if discomfort, tingling feeling or pain occurs.

Work Area Safety

⚠️ CAUTION

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not use the tool in potentially explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Proceed with care in unfamiliar surroundings. Hidden hazards may exist.
- Always secure workpiece. Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the workpiece by hand or against your body is unstable and may lead to loss of control.
- Keep bystanders, children and visitors away while operating the tool and charging the battery. Distraction can cause you to lose control.

Electrical Safety

⚠️ WARNING

- Do not handle the tool, battery or charger with wet hands.
- Do not expose the tool, battery and charger to rain or wet conditions.
- Do not attempt to open, disassemble, modify or service the battery pack.
- Do not crush, puncture, shorten external contacts or circuits, dispose of in fire or water. Keep the battery away from metal objects such as paper clips, coins, keys, screws or other small metal objects that can lead to short circuit.
- Do not expose batteries to temperatures above 40°C.
- Keep the battery and charger dry and away from water or any liquid as it may cause a short circuit.
Electrical Safety

**WARNING**

- Do not use a battery that appears damaged, deformed or discoloured or the one that has any rust on its casing, overheats or emits a foul odour.
- Do not attempt to solder anything to the battery. It will dissolve insulations, destroy the gas exhaust valve or the protection circuit.
- Do not place any object on the charger nor cover the battery with flammable things while charging.
- Leaks from battery cells can occur under extreme conditions. Do not allow the leaking fluid to come in contact with skin or clothing. If already in contact, flush the affected area immediately with clean water and seek medical advice. If the liquid comes in contact with eyes, DO NOT rub; rinse with clean water immediately for minimum 10 minutes and seek medical help. Liquid ejected from the battery may cause irritation or burns.
- Take extra precautions to keep a leaking battery away from fire as there is a danger of ignition or explosion.
- Do not abuse the power cable. Do not pull the power cable for carrying the charger or disconnecting the power plug from the power point.
- Arrange the power cable so that it may not be stepped, caught or stressed for damages.
- Do not use charger if it is damaged by a drop or is with a damaged power cable.

Personal Safety

**CAUTION**

- Stay alert, watch what you are doing and use common sense when operating the tool. Do not use any tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating a tool may result in serious personal injury.
- Maintain a balanced body position and secure footing. Avoid awkward or off-balanced postures. Change the posture during extended tasks, which may help to avoid discomfort and fatigue. If the operator experiences symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensation or stiffness, the operator should tell the employer and consult a qualified health professional immediately.
- Always detach the battery from the tool when not in use, before changing accessories or when making repairs.
- Prevent unintentional or inadvertent start. Ensure that the trigger is in the off-position before attaching the battery to the tool, picking up or carrying the tool. Carry the tool only by the handle. Carrying the tool with your finger on the trigger or energising the tool that has the trigger on invites accidents.
- Never hold the drive socket / bit or drive extension. Keep hands away from rotating drives.
- Dress properly. Do not wear loose clothing, jewellery and neck ware. Keep your hair, clothing and gloves away from all moving parts.
- Use personal protective equipments such as dust mask, non-slip safety shoes and hard hat as instructed by the employer and as required by occupational health and safety regulations.
- Wear suitable gloves to protect hands against hazards such as crushing, impacts, cuts and abrasions and heat. Do not wear loose fitting gloves or gloves with cut or frayed fingers. When using gloves, always be sure that the gloves will not prevent the throttle mechanism from being released.
Personal Safety

CAUTION

- Always wear impact-resistant eye protection during the operation of the tool. The grade of protection required should be assessed for each use.
- Remove any adjusting wrench before turning the tool on. A wrench that is left attached to a rotating part of the tool may result in personal injury.
- Ensure that the workpiece is securely fixed.

WARNING

Noise

Unprotected exposure to high noise levels can cause permanent, disabling, hearing loss and other problems such as tinnitus (ringing, buzzing, whistling or humming in the ears).
Risk assessment and implementation of appropriate controls for these hazards are essential.
- Use hearing protection in accordance with employer’s instructions and as required by occupational health and safety regulations. Look after your hearing protection.

Vibration

Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms. If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the tool, tell the employer and consult a physician immediately.
- Hold the tool with a light but safe grip taking account of the required hand reaction forces. The risk from vibration is generally greater when the grip force is higher.
- Wear warm clothing when working in cold conditions and keep your hands warm and dry.

Residual Risks

CAUTION

- Gloves can become entangled with the rotating drive, causing severed or broken fingers. Rotating drive sockets and drive extensions can easily entangle rubber coated or metal reinforced gloves.
- Additional residual risks may arise when using the tool which may not be included in the safety warnings. These risks can arise from misuse, prolonged use and so on. Even with the application of the relevant safety regulations and the implementation of safety devices, certain residual risks cannot be avoided. (e.g. injuries caused when changing any parts or accessories)

Products Use and Care

CAUTION

- Hold the tool correctly: be ready to counteract normal or sudden movements – have both hands available.
- Keep the tool dry and clean – free from oil and grease for better control of the tool.
- Do not force the 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. Overwork applications can cause not only smoke or fire from the motor but also anvil breakage, resulting in injuries.
CAUTION

- Unless otherwise required, do not make idle running at free speed.
- 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 repaired before use.
- Store idle tools out of the reach of children and do not allow persons unfamiliar with these instructions to operate the tool. Tools are dangerous in the hands of untrained users.
- Do not leave the tool, battery and charger inside a vehicle or in places where the temperature may exceed 40°C.
- Do not place the tool as shown on the left figure. Supporting the tool only on the two points may damage the battery casing. It is recommended to use a tool holder, URYU Part Nos. 852-669-1 for UDBP-TA40, -TA50 & -TA60 series, 852-645-1 for UDBP-TA70(P), to keep the tool at workplace.

Operating Instructions

1. Battery Charge

ATTENTION!

CHARGE A BRAND NEW BATTERY FULLY BEFORE YOU ATTACH THE BATTERY TO THE TOOL.

The battery needs to be charged fully before first use for correct display of battery remaining capacity indication. If you have started to use a brand new battery before fully charged, try full recharge for a couple of times, which will correct the battery remaining capacity display.

WARNING

- Use URYU genuine charger and power cable.
- Use the charger by specified power source.
- Do not attempt to use the charger with any other product nor attempt to charge the battery with any other charger.
- Do not charge by means of an engine generator, DC power source or transformer.

CAUTION

- Charge the battery in a temperature between 5°C and 40°C. Otherwise it could cause an explosion or fire.

Insert the battery gently to the bottom of the charger (see the right figure) and wait until LED displays FULL charged (see the table on the next page).
Battery Charger LED Display

<table>
<thead>
<tr>
<th>LED Display</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Charging</strong></td>
<td></td>
</tr>
<tr>
<td>0~79% (Red)</td>
<td>Charging: capacity 0~79%</td>
</tr>
<tr>
<td>80~89% (Amber)</td>
<td>Charging: capacity 80~89%</td>
</tr>
<tr>
<td>90~99% (Green)</td>
<td>Charging: capacity 90~99%</td>
</tr>
<tr>
<td><strong>Fully Charged</strong></td>
<td></td>
</tr>
<tr>
<td>(Green)Flashing</td>
<td>Charge Complete</td>
</tr>
<tr>
<td><strong>Standby for Temperature Protection</strong></td>
<td></td>
</tr>
<tr>
<td>0~79% (Red)Slow flashing</td>
<td>Waiting: capacity 0~79%</td>
</tr>
<tr>
<td>80~89% (Amber)Slow flashing</td>
<td>Waiting: capacity 80~89%</td>
</tr>
<tr>
<td>90~99% (Green)Slow flashing</td>
<td>Waiting: capacity 90~99%</td>
</tr>
<tr>
<td><strong>Preliminary Charge</strong></td>
<td>Preliminary charging *Wait for regular charging to start.</td>
</tr>
<tr>
<td>(Red)Quick flashing</td>
<td>Battery error *Replace the battery with a new one.</td>
</tr>
<tr>
<td><strong>Charging Error</strong></td>
<td></td>
</tr>
</tbody>
</table>

Flat Battery Charging Time

<table>
<thead>
<tr>
<th>Battery Capacity</th>
<th>Charging Time (approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>80%</td>
<td>40 minutes</td>
</tr>
<tr>
<td>100%</td>
<td>64 minutes</td>
</tr>
</tbody>
</table>

2. Socket / Bit

- Use impact sockets / power bits in good condition. Worn or ill fitting sockets / bits reduce power. Replace worn sockets / bits to prevent vibration, loss in torque output, poor accuracy and damage to the output drive. Poor condition or hand sockets / bits and accessories can shatter and become a projectile.

- A heavy socket and / or accessory may cause premature shut-off. Consult your local URYU distributor or URYU Japan for proper sockets.
- A universal joint socket or a socket connector reduces torque output.

-How to Connect Socket / Bit-

- For UDBP-T(P) series, connect female 3/8” square drive socket and anvil by depressing retainer pin.
- For UDBP-T series fitted with quick change chuck, pull bit sleeve (see the figure below) and insert 1/4” hexagon bit.
3. Direction of Rotation

**CAUTION**
- Note the position of the forward / reverse lever before operating the tool.
- Be aware of the direction of rotation.

- Changeable Fwd/Rev Lever (if desired)-
1. Detach the battery from the tool.
2. Remove the hex bolt (use a 2mm hexagonal bar spanner).
3. Pull the Fwd / Rev lever forward to take it off.
4. Change the position and fit the Fwd / Rev lever back to the tool.
5. Give #221 loctite to threads of the hex bolt and fit the Fwd / Rev lever to the tool by tightening the hex bolt by fastening torque of 0.3Nm – 0.5Nm.

4. Attach / Remove UB Battery

- How to attach and remove the battery-
  - Ensure that the trigger is in the off position before attaching the battery.
  - Slide the battery until it clicks to attach the battery to the tool.
  - Slide the battery to your side while pressing down the jaw, to remove the battery.
5. Trigger

- Grip the handle and pull the trigger firmly until the tool automatically shuts off.
- Speed increases in 3 steps as you pull the trigger progressively for both forward and reverse.
- Release your finger from the trigger and the brake will work to stop the tool.

6. Operation

**ATTENTION!**

- Warm up
  Should the tool be left for some periods at low temperatures below 5°C, the tool may not deliver tightening force initially. This can be remedied by cycling the tool repeatedly on a test fixture or fixing the anvil on a vice and agitating the pulse unit for approximately 10 seconds, which will preheat the pulse unit.
- Fastening torque does not reach preset torque if you release the trigger prior to automatic shut-off.
- Do not block the ventilation slots when the tool is in use. Insufficient ventilation may result in heat or smoke.

7. Torque Adjustment in forward (clockwise) rotation only

1. Remove the battery from the tool before torque adjustment.
2. Rotate the anvil manually until the torque adjuster is exposed directly in line with opening in front casing.
3. Turn the torque adjuster clockwise to increase torque output and anticlockwise to decrease torque output.

![Pulse Unit](image)

**Note:** Turn the torque adjuster clockwise until it bottoms out to set the maximum torque.

- See ‘Technical Specifications’ for adjustable torque ranges.

Note that the torque ranges in the table were obtained by fastening test on suitable Uryu UFT tester with B (hard) joint setting. For accurate operation and safety, the tightening torque of the tool must be set correctly in relation to the screw joint. Check the tightening torque given to the joint in question. The fastening torque can change even for the same sized bolt because of torque coefficient determined by finishing status of the bolt or the workpiece such as industrial quality ranking of the bolt or the length.
8. Heat Protection

Heat protection will function to stop the tool when the motor heats due to exceeding duty cycle. The shut-off LED lamp turns red and the tool won’t work until the red LED turns off. Once the LED turns red, do not use the tool for 30 minutes at least until the temperature has cooled. If you re-start immediately the red LED has turned off, red LED will turn on soon again, which may break the motor. Re-start after the temperature has reached room temperature.

-Suitable Applications for UDBP-TA series-

UDBP-TA will allow tightening an average of 6 cycles (10 cycles for UDBP-TA40) per minute when averaged on a hard joint (B joint on UFT), see Table 1 for the working condition. Softer joints will require less aggressive duty cycles.

Example: UDBP-TA60
Working conditions (from Table 1)
Bolt Size --- M10 (Bigger than recommended bolt size (M8) for UDBP-TA60)
Fastening Torque --- 26Nm (Maximum torque for UDBP-T60)
Fastening Time per Fastener --- approx. 0.4 sec.

From Table 1, UDBP-TA60 will be able to fasten 6 fasteners per minute under the above working condition.

Mathematical Expression ------ 0.4 sec./fastener  6 fasteners/min. =2.4 sec.

With UDBP-TA60, heat protection will not function as long as the tool tightens M10 fasteners at 26Nm for total 2.4 sec. per minute, see below.

9. LED Work Light

Pull the trigger and the LED work light illuminates work area.

⚠️ CAUTION ⚠️

To reduce risk of injury to eyes, do not look into the LED work light while it is on.
**UB series Rechargeable Li-ion Batteries**

- UB series batteries passed safety test in accordance with UL 1642 and IEC 62133. However, do not give an excessive shock or heat.

[WARNING]

- Store batteries in a cool, dark and dry place. The recommended ambient temperature range is between 0°C and 20°C (non-condensation). Never expose batteries to temperatures above 40°C. Do not keep the tool in places where the temperature may reach 40°C (e.g. in unventilated metal storage containers or in cars).
- Ensure to charge the battery fully before you do not use the battery for a long period. Leaving the battery with its remaining capacity of less than 10% can damage its electrodes and break the battery.

**Battery Life Cycle**

- The battery may be rechargeable up to approximately 500 times after drained. When number of fastener per full charge becomes about a half of the new battery condition, replace the battery with a new one.
- Replace only with the battery designated for the product.

**Table 1: Operating Cycle per Full-Charge**

<table>
<thead>
<tr>
<th>Model</th>
<th>Durability Test Condition</th>
<th>Operating Cycle per Full-Charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>UDBP-TA40</td>
<td>UFT-6, M6 bolt, B-Joint</td>
<td>Fastening torque 7Nm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fastening time 0.3 sec.</td>
</tr>
<tr>
<td>UDBP-TA50</td>
<td>UFT-10, M8 bolt, B-Joint</td>
<td>Fastening torque 12.5Nm</td>
</tr>
<tr>
<td>UDBP-TA50(P)</td>
<td></td>
<td>Fastening time 0.4 sec.</td>
</tr>
<tr>
<td>UDBP-TA60</td>
<td>UFT-10, M10 bolt, B-Joint</td>
<td>Fastening torque 26Nm</td>
</tr>
<tr>
<td>UDBP-TA60(P)</td>
<td></td>
<td>Fastening time 0.4 sec.</td>
</tr>
<tr>
<td>UDBP-TA70(P)</td>
<td>UFT-16, M12 bolt, B-Joint</td>
<td>Fastening torque 40Nm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fastening time 0.3 sec.</td>
</tr>
</tbody>
</table>

*Torque is set at Hard joint. Numbers of tightening per charge varies depending on torque level, fastener length and application.*

**Recycle of Li-ion Battery**

Li-ion battery is a precious and recyclable resource. Recycle UB batteries in compliance with your local recycle system and law.

- (In EU) The crossed-out wheeled bin symbol indicates that the battery must not be discarded in a standard dustbin or at a rubbish site. Take the used batteries to a battery collection site according to your local legislation and the European Parliament and the Council directive, 2006/66/EU (6 September 2006) on batteries.
Maintenance Instructions

CAUTION

- Continuous satisfactory operation depends upon proper tool care and regular maintenance.
- Have the tool serviced by a qualified repair person.
- Use URYU genuine parts for replacement. This will ensure that the safety and the optimum performance of the tool are maintained. Refer to the parts list supplied along with the tool and use correct jigs for proper service. Contact your local URYU distributor or URYU Japan.

Lubrication
- For the bearing, coat one-third of the bearing with high quality grease, Multemp PS No. 2 (see the right table) or equivalent.

Overhaul
- It is recommended that after every 100,000 fasteners or 3 months, whichever comes earlier, the fluid, Pulstar oil (see the right table) in the pulse unit should be changed and grease the bearing. Do not substitute any other fluid. Failure to use Pulstar oil could damage the tool, increase maintenance and decrease performance.
- It is recommended that after every 200,000 fasteners or 6 months, the pulse unit should be inspected with care. Inspect hard parts for damages or wearing. Replace damaged parts, all sealing materials such as SU-ring, O-rings and supporter rings and consumable materials such as springs in the pulse unit each time you disassemble the pulse unit.
- More frequent overhaul may be needed when the tool is in heavy duty operation.
- If the tightening torque tends to drop by more than 10% from the preset torque, oil volume in the pulse unit may have become lower. The pulse unit needs overhauling. Do not try to increase torque by the torque adjuster because sudden torque drop may occur.
- Wipe the casing with a soft cloth. Do not use volatile liquid or a wet cloth as it would cause deterioration of its strength and discoloration.
- Ensure that any labels on the tool are kept in legible condition. Replace any damaged label.

Disposal of Tool & Charger

- Separate collection of used tools and packaging allows materials to be recycled and used again. Re-use of recycled materials helps to prevent environmental pollution and reduces the demand for raw materials.
- The tool is made of steel, magnesium alloy, plastic and rubber. When disposing the tool, make sure not to cause pollution to human being and the environment. Follow your local laws and regulations relating to disposal.

- (In EU) The products are covered by the European Parliament and the Council directive, 2002/96/EC (27 January 2003) on waste electrical and electronic equipment (WEEE). The tools and the chargers should be disposed of separately from normal household waste so that they can be recycled.
Troubleshooting

Please check the following troubleshooting guides before contacting your local URYU distributor or URYU Japan.

When charging

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Reason</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED flashing at a slow rate</td>
<td>Overheated battery</td>
<td>Continue charging and it will start charging automatically when the battery has cooled.</td>
</tr>
<tr>
<td>LED flashing continuously in red and amber by turns</td>
<td>Battery is damaged or at the end of its life.</td>
<td>Replace the battery with a new one.</td>
</tr>
</tbody>
</table>

While in operation

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Reason</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tool does not run</td>
<td>Battery depleted</td>
<td>Recharge the battery.</td>
</tr>
<tr>
<td>Tool becomes hot</td>
<td>Tool has been overworked.</td>
<td>Review of tool selection for the work</td>
</tr>
<tr>
<td>Tool makes growling sound at slow speed</td>
<td>Internal magnet reaction causes noise at the motor-to-pulse unit connecting part.</td>
<td>This is normal condition inherent to the tool design.</td>
</tr>
<tr>
<td>Tool stops when the anvil becomes locked for about 1 sec. with the trigger depressed</td>
<td>Motor protection activated</td>
<td>Release the trigger and pull it again.</td>
</tr>
<tr>
<td>Lower fastening torque than preset torque</td>
<td>Worn socket or bit</td>
<td>Replace the socket or bit with a new one.</td>
</tr>
<tr>
<td>Operating cycles less than normal experience</td>
<td>Battery charge low or battery is at the end of lifespan.</td>
<td>Recharge the battery fully or replace with a new one.</td>
</tr>
</tbody>
</table>

Should the above steps fail to remedy a problem with the tool, immediately stop using the product and contact local URYU distributor or URYU Japan.

Find URYU distributor in your country at www.uryu.co.jp/english/network.html.
EC DECLARATION OF CONFORMITY (UDBP-TA Tools)


Combinations of UDBP-TA & UB:
- UDBP-TA40 series & UB111Li
- UDBP-TA50 series & UB111Li
- UDBP-TA60 series & UB222Li
- UDBP-TA70(P) & UB333Li

The above products have been evaluated by the following standards for adaptability. The technical construction files for these products are maintained at URYU Engineering Department at 2-9-26, Kamiji, Higashinari, Osaka, 537-0003, Japan.

Reference standards
EN61000-4-2:2007, EN55011:2007 + A2:2007 (Group1, Class A)
EN61000-6-2:2005, EN61000-4-2 / EN61000-4-3 / EN61000-4-8

EC DECLARATION OF CONFORMITY (UBC Battery Charger)

We, Uryu Seisaku, Ltd., declare that UBC battery charger is in compliance with the essential requirements of the European Parliament and the Council directives, 2004/108/EC (15 December 2004) on electromagnetic compatibility and 2011/65/EU (8 June 2011) on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Reference standards

Kazumasa Uryu, Executive Director
Osaka, Japan, 5 January 2012

Disclaimer

• The contents of this instruction handbook are subject to change without prior notice.
For further information, contact your nearest URYU distributor or URYU Japan.

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