STANLEY
Engineered Fastening

# Operating Manual


## BLC40PB-35 Lock Bolt Tool

## Battery Power Tools

STANLEY
Assembly Technologies

| Manual Number | Issue | C/N |
|---|---|---|
| TRM01497 | 1 | 202503-1 |

# Table of Contents

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# 1 About this manual

## 1.1 Presentation conventions

### 1.1.1 Definitions: Safety signal words and alert symbols

This instruction manual uses the following safety alert symbols and words to alert you to hazardous situations and your risk of personal injury or property damage.

#### Warnings at the beginning of a section

**⚠ CAUTION**

**Type and source of hazard**

Consequences if ignored

⇒ Action to prevent hazard

#### Warning within a section

**CAUTION! Hazard type and source** Consequences if ignored. Action to prevent a hazard

#### Warning triangle

The warning triangle ⚠ indicates death or injury hazards for people. Warnings without a warning triangle indicate property damage.

#### Signal word

The signal word indicates the severity of the hazard:

| Signal word | Meaning |
|---|---|
| ⚠ DANGER | Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury |
| ⚠ WARNING | Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury |
| ⚠ CAUTION | Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury |
| NOTE | Indicates a practice not related to personal injury which, if not avoided, may result in property damage. |

#### Type and source of hazard

This paragraph describes the type of hazard and what causes it.

#### Consequences if ignored

This paragraph explains what happens if the hazard is not prevented.

## Action to prevent hazard

These paragraphs indicate how the hazard can be prevented. These measures absolutely must be taken!

# 2 For your safety

This instruction manual must be read by any person installing or operating this tool with particular attention to the following safety warnings and instructions.

**Improper operation or maintenance of this product could result in serious injury and property damage. Read and understand all warnings and operating instructions before using this equipment. When using power tools, basic safety precautions must always be followed to reduce the risk of personal injury.**

## 2.1 General safety rules

**⚠ WARNING**

**Read all safety warnings, instructions, Illustrations and specifications provided with this power tool.**

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

**Save all warnings and instructions for future reference**

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

## 2.2 Work area safety

1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
2. 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.
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

## 2.3 Electrical safety

Read all instructions:

1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
2. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
5. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

## 2.4 Personal safety

1. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
2. Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
3. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
4. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
6. Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
7. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
8. Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

## 2.5 Power tool use and care

1. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
2. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
5. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool’s operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. Use the power tool, accessories and tool bits, etc. In accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
8. Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations

## 2.6 Battery tool use and care

1. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
2. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

3. When battery pack is not in use, keep it away from other 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 burns or a fire.
4. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
5. Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
6. Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
7. Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

## 2.7 Service

1. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
2. Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.

## 2.8 Additional safety information

**⚠ CAUTION**

**Never modify the tool in any way**

Any modification to the tool will void any and all warranties. Modification may pose a risk of property damage and/or serious risk of injury to the user.

**⚠ CAUTION**

**Always wear certified safety equipment**

Always use safety glasses. Everyday eyeglasses are not safety glasses. Also use face or dust mask if installation operation is dusty. Always wear certified safety equipment:

⇒ ANSI Z87.1 eye protection (CAN/CSA Z94.3)

⇒ ANSI S12.6 (S3.19) hearing protection

⇒ NIOSH/OSHA/MSHA respiratory protection.

**⚠ CAUTION**

**Always wear hearing protection**

Always wear proper personal hearing protection that conforms to ANSI S12.6 (S3.19) during use. Under some conditions and duration of use, noise from this product may contribute to hearing loss.

**⚠ CAUTION**

**Tool tripping or falling hazard**

When not in use, place tool on its side on a stable surface where it will not cause a tripping or falling hazard. Some tools with large battery packs will stand upright on the battery pack but may be easily knocked over.

**⚠ CAUTION**

**Improper harness use may cause serious injury**

To avoid injury:

⇒ Ensure the harness is fixed securely and correctly when in use. Do not use a harness with any damage to the harness or buckles.

1. Do not use outside the design intent of placing STANLEY Engineered Fastening® Blind rivets.
2. Use only parts, rivets, and accessories recommended by the manufacturer.
3. Do not abuse the tool by dropping or using it as a hammer.
4. Keep tool handles dry, clean, and free from oil and grease.
5. Never leave operating tool unattended and disconnect battery when tool is not in use.
6. Keep hands away from trigger before connecting to power source and/or battery pack, picking up or carrying the tool.
7. Do not operate a tool that is directed towards any person(s).
8. Do not operate tool with the nose housing removed.
9. Keep dirt and foreign matter out of the air vents of the tool as this will cause the tool to malfunction.

# 2.9 Labels and icons

## Markings on tool

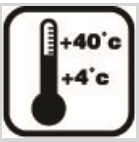
## Date code position

The Date Code, which includes the year, month and location of manufacture, is printed into the housing surface that forms the mounting joint between tool and battery.

## Labels on tool, charger and battery pack

In addition to the pictographs used in this manual, the labels on the tool, charger and the battery pack may show the following pictographs.

| | | | |
|---|---|---|---|
|  | Read instruction manual before use. |  | Do not expose to water. |
|  | Read instruction manual before use. |  | Have defective cords replaced immediately. |
|  | Wear eye protection. |  | Problem power line. |
|  | Wear hearing protection. |  | Problem pack or charger. |
|  | Wear respiratory protection. |  | Do not probe with conductive objects. |

| | | | |
|---|---|---|---|
|  | Battery charging. |  | Charge only between 4 °C and 40 °C. |
|  | Battery charged. |  | Discard the battery pack with due care for the environment. |
|  | Hot/cold pack delay. |  | Do not incinerate the battery pack. |
|  | Charges Li-Ion battery packs. |  | See technical Data for charging time. |
|  | Only for indoor use. |  | Do not charge damaged battery packs. |
|  | Visible radiation. Do not stare into light. |  | Shock hazard symbol. |
|  | Charge DEWALT®/POP®Avdel® battery packs only with designated DEWALT®/POP®Avdel® chargers. Charging battery packs other than the designated DEWALT®/POP®Avdel® batteries with a DEWALT®/ POP®Avdel® charger may make them burst or lead to other dangerous situations. |  | Your DEWALT® charger is double insulated in accordance with EN60335; therefore no earth wire is required. |

## 2.10 Important safety instruction for all battery chargers

### Save these instructions:

This manual contains important safety and operating instructions for compatible battery chargers (refer to technical data).

**⚠ WARNING**

**Electric shock due to liquid**

Shock hazard. Do not allow any liquid to get inside charger. Electric shock may result.

**⚠ WARNING**

**Electric shock or fire**

To reduce the risk of injury:

⇒ We recommend the use of a residual current device with a residual current rating of 30mA or less.

**⚠ CAUTION**

**Burn hazard**

To reduce the risk of injury:

⇒ Charge only DEWALT® rechargeable batteries. Other types of batteries may burst causing personal injury and damage.

**⚠ CAUTION**

**Risks of children playing with appliances**

To reduce the risk of injury:

⇒ Children should be supervised to ensure that they do not play with the appliance.

**NOTE**

Under certain conditions, with the charger plugged into the power supply, the exposed charging contacts inside the charger can be shorted by foreign material. Foreign materials of a conductive nature such as, but not limited to, steel wool, aluminum foil or any build-up of metallic particles should be kept away from charger cavities. Always unplug the charger from the power supply when there is no battery pack in the cavity. Unplug charger before attempting to clean.

1. Before using charger, read all instructions and cautionary markings on charger, battery pack, and product using battery pack.
2. Do not attempt to charge the battery pack with any chargers other than the ones in this manual. The charger and battery pack are specifically designed to work together.
3. These chargers are not intended for any uses other than charging DEWALT® rechargeable batteries. Any other uses may result in risk of fire, electric shock or electrocution.
4. Do not expose charger to rain or snow.
5. Pull by plug rather than cord when disconnecting charger. This will reduce risk of damage to electric plug and cord.
6. Make sure that cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
7. Do not place any object on top of charger or place the charger on a soft surface that might block the ventilation slots and result in excessive internal heat. Place the charger in a position away from any heat source. The charger is ventilated through slots in the top and the bottom of the housing.
8. Do not operate charger with damaged cord or plug, have them replaced immediately.
9. Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way. Take it to an authorised service centre.
10. Do not disassemble charger take it to an authorised service centre when service or repair is required. Incorrect reassembly may result in a risk of electric shock, electrocution or fire.
11. Disconnect the charger from the outlet before attempting any cleaning. This will reduce the risk of electric shock. Removing the battery pack will not reduce this risk.
12. Never attempt to connect two chargers together.
13. The charger is designed to operate on standard household electrical power (refer to charger specifications). Do not attempt to use it on any other voltage. This does not apply to the vehicular charger.
14. Do not use an extension cord unless it is absolutely necessary. Use of improper extension cord could result in risk of fire, electric shock, or electrocution.

## 2.11 Important safety instructions for all battery packs

When ordering replacement battery packs, be sure to include catalog number and voltage. The battery pack is not fully charged out of the carton. Before using the battery pack and charger, read the safety instructions below. Then follow charging procedures outlined.

### Read all the instructions

1. Do not charge or use battery in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Inserting or removing the battery from the charger may ignite the dust or fumes.

2. Never force battery pack into charger. Do not modify battery pack in any way to fit into a non-compatible charger as battery pack may rupture causing serious personal injury.
3. Charge the battery packs only in designated DEWALT® chargers.
4. Do not splash or immerse in water or other liquids.
5. Do not store or use the tool and battery pack in locations where the temperature may reach or exceed 40 ˚C (104 ˚F) (such as outside sheds or metal buildings in summer). For best life store battery packs in a cool, dry location.
6. When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another.
7. Do not discard batteries into water.

**⚠ WARNING**

Fire hazard. Never attempt to open the battery pack for any reason. If battery pack case is cracked or damaged, do not insert into charger. Do not crush, drop or damage battery pack. Do not use a battery pack or charger that has received a sharp blow, been dropped, run over or damaged in any way (i.e., pierced with a nail, hit with a hammer, stepped on). Electric shock or electrocution may result. Damaged battery packs should be returned to service centre for recycling.

**⚠ WARNING**

Fire hazard. Do not store or carry the battery pack so that metal objects can contact exposed battery terminals. When transporting individual battery packs, make sure that the battery terminals are protected and well insulated from materials that could contact them and cause a short circuit.

**⚠ CAUTION**

When not in use, place tool on its side on a stable surface where it will not cause a tripping or falling hazard. Some tools with large battery packs will stand upright on the battery pack but may be easily knocked over.

## 2.12 Specific safety instructions for lithium-ion(LI-ION)

1. Do not incinerate the battery pack even if it is severely damaged or is completely worn out. The battery pack can explode in a fire. Toxic fumes and materials are created when lithium-ion battery packs are burned.
2. If battery contents come into contact with the skin, immediately wash area with mild soap and water. If battery liquid gets into the eye, rinse water over the open eye for 15 minutes or until irritation ceases. If medical attention is needed, the battery electrolyte is composed of a mixture of liquid organic carbonates and lithium salts.
3. Contents of opened battery cells may cause respiratory irritation. Provide fresh air. If symptoms persist, seek medical attention.

**⚠ WARNING**

**Burn hazard due to battery liquid**

Battery liquid may be flammable if exposed to spark or flame.

## 2.13 Residual risks

In spite of the application of the relevant safety regulations and the implementation of safety devices, certain residual risks cannot be avoided. These are:

- Impairment of hearing.

- Risk of personal injury due flying particles.
- Risk of burns due to accessories becoming hot during operation.
- Risk of personal injury due to prolonged use.

# 3 Specifications

**NOTE**

Under no circumstances should any maintenance or servicing be conducted apart from nose equipment change.

## 3.1 Tool specification

| Specification | Unit | BLC40PB-35 |
|---|---|---|
| Voltage | VDC | 18 nom. (20 max) |
| Type | | 3 |
| Battery type | | Li-ion |
| Weight (without battery pack) | kg [lbs] | 4.7 [10.36] |

Noise and vibration total values (triax vector sum) determined according to EN 60745-1 and EN 62841-1:

| Specification | Unit | Value |
|---|---|---|
| LPA (sound pressure) | dB(A) | 82 |
| KPA (sound pressure uncertainty) | dB(A) | 2 |
| LWA (sound power) | dB(A) | 90 |
| KWA (sound power uncertainty) | dB(A) | 2 |
| Ah vibration level | m/s² | 0.4 |
| K vibration uncertainty | m/s² | 1.5 |

| Specification | Unit | 4.0 Ah | 5.0 Ah |
|---|---|---|---|
| Weight | kg [lbs] | 5.35 [11.79] | 5.35 [11.8] |
| Length | mm [in] | 361.1 [14.2] | 361.1 [14.2] |
| Height | mm [in] | 333.6 [13.1] | 333.6 [13.1] |
| Stroke | mm [in] | 40 [1.57] | |
| Pulling force | N [lbf] | 35000 [7868] | |
| Rivet range nom. dia. | mm [in] | AVBOLT Standard 5/16" | |

## 3.2 Battery pack and charger specifications

| Battery pack** | Unit | Value |
|---|---|---|
| Battery type | | Li-ion |
| Voltage | VDC | 18 nom. (20 max) |
| Capacity | Ah | 4.0/5.0 |
| Weight | kg [lbs] | 0.61/0.62 [1.36/1.37] |
| Charging duration | min | 60/75 |

| Charger** | Unit | NA | JP | QW/GB/XE/XD/ KR | A9 |
|---|---|---|---|---|---|
| Battery type | | Li-ion | Li-ion | Li-ion | Li-ion |
| Battery type mains voltage | VAC | 120 | 100 | 230 | 220 |
| Input frequency | Hz | 60 | 50/60 | 50 | 50 |
| Weight | kg [lbs] | 0.5 [1.10] | 0.5 [1.10] | 0.5 [1.10] | 0.5 [1.10] |

| Fuses | | |
|---|---|---|
| Europe | 230 V tools | 10 Amperes. mains |
| U.K. & Ireland | 230 V tools | 3 Amperes. in plugs |

* BLC40PB-35 is compatible with DEWALT® 18 V or 20V max Li-Ion slide type batteries.

** Charging duration is based on the DCB1104 DEWALT® charging unit.

## 3.3 Estimated rivets per charge

| Nom. Rivet dia. | Battery 4.0 Ah | Battery 5.0 Ah |
|---|---|---|
| Ø 8.0 mm [5/16"] | 320 | 440 |

**NOTE**

These values are listed as a guide only and are estimates based on a fully charged battery. Results may vary depending on rivet material, tool/battery condition and work environment.

## 3.4 Placing specifications

| Fastener | |
|---|---|
| Type | Size |
| AVBOLT® Standard | 5/16" |

## 3.5 Package contents

| Description | Part number | BLC40PB-35-A91821 | BLC40PB-35-A91822 | BLC40PB-35-A9-B-KIT | BLC40PB-35-QW1822 | BLC40PB-35-JP1822 |
|---|---|---|---|---|---|---|
| Base tool | BLC40PB-35-B (TRM01501) | 1 | 1 | 1 | 1 | 1 |
| Charger | DCB1104 | 1 | 1 | - | 1 | 1 |
| Battery (4.0 Ah) | DCB182 or DCB204 | 1 | 2 | - | 2 | 2 |
| Instruction manual | TRM01497 | 1 | 1 | 1 | 1 | 1 |
| Fabric harness | TRM01589 | - | 1 | - | 1 | 1 |
| Shoulder strap | N463971 | - | 1 | - | 1 | 1 |
| Screwdriver | 60-821-23 | 1 | 1 | - | 1 | 1 |

| Description | Part number | BLC40PB-35-A91821 | BLC40PB-35-A91822 | BLC40PB-35-A9-B-KIT | BLC40PB-35-QW1822 | BLC40PB-35-JP1822 |
|---|---|---|---|---|---|---|
| Nose assembly (AVBOLT® Standard 5/16") | 72200-07700 | 1 | 1 | - | - | - |

**NOTE**

Battery and charger may vary as per availability/requirement.

## 3.6 Main components list

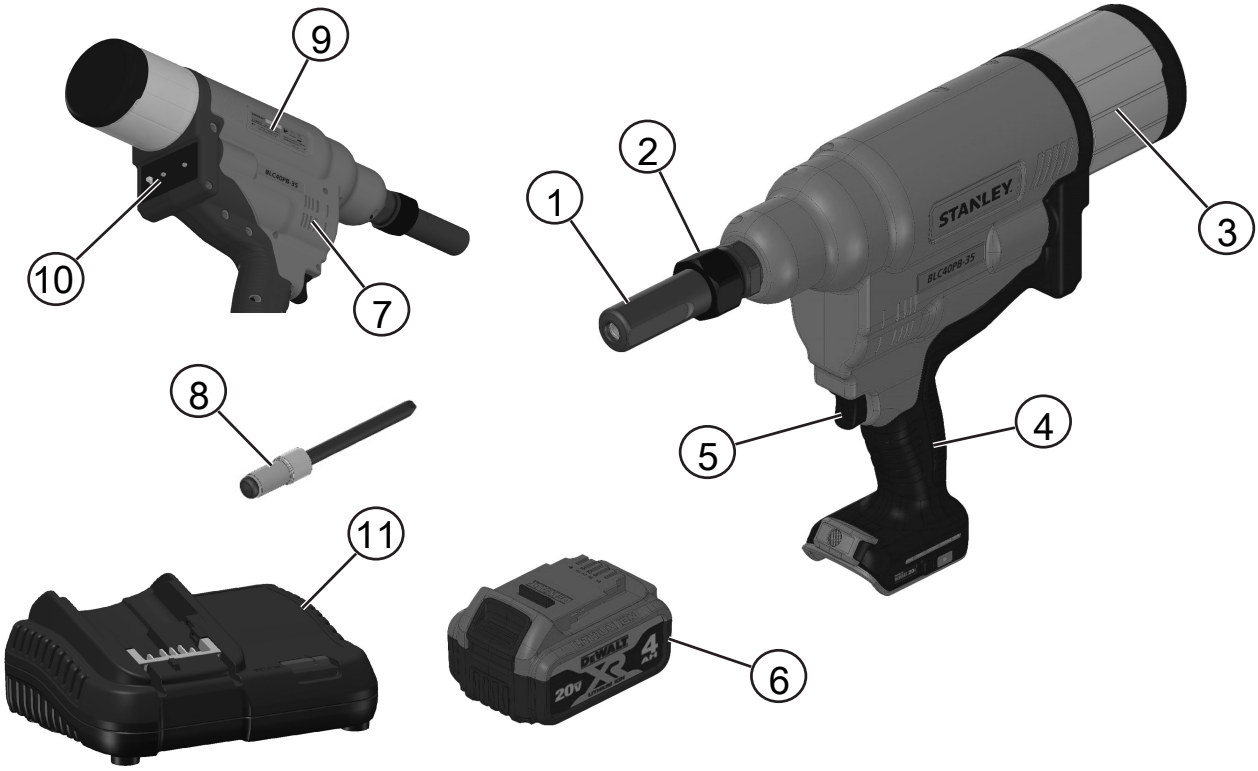



*Fig. 1:* BLC40PB-35 Rivet tool

| | | | |
|---|---|---|---|
| 1 | Nose assembly | 2 | Lock nut |
| 3 | Mandrel collector | 4 | Handle |
| 5 | Trigger | 6 | Battery [4.0 Ah shown] |
| 7 | Exhaust vent | 8 | Rivet |
| 9 | Model no. / serial no. | 10 | User interface |
| 11 | Charger | | |

**NOTE**

Battery labels may be 18V or 20V (max) based on local availability, tool is compatible to both Dewalt® variants.

# 4 Tool setup

## 4.1 Intended use

This tool is designed for installations of STANLEY Engineered Fastening® Blind Rivets.

**NOTE**

**This tool should be used by experienced operators**

Do not let children come into contact with the tool. Supervision is required when unexperienced operators use this tool.

⇒ This appliance is not intended for use by young children or infirm persons without supervision.

⇒ This product is not intended for use by persons (including children) suffering from diminished physical, sensory or mental abilities; lack of experience, knowledge or skills unless they are supervised by a person responsible for their safety. Children should never be left alone with the product.

**NOTE**

Do not use tool under wet conditions or in presence of flammable liquids or gases.

Read all safety warnings and instructions before putting tool into service.

Always wear approved hearing and eye protections at all times when using installation equipment.

**⚠ WARNING**

**Damage or personal injury could result.**

Never modify the power tool or any part of it.

**⚠ WARNING**

Before adjusting tool, always remove the battery pack.

### Before Use

1. Select relevant size nose equipment and install.
2. Ensure that the battery is fully charged.
3. Insert battery pack into the tool.
4. Quickly pull and release the trigger to set the tool to the home position.

# 4.2 Nose equipment

**⚠ WARNING**

Before adjusting tool, always remove the battery pack.

Nose assembly for AVBOLT® Standard 5/16" part number: 07220-07700

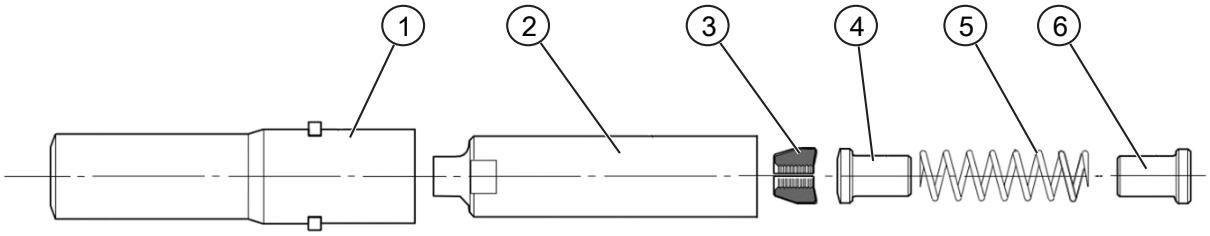



*Fig. 2:* Nose assembly

| Item | Description | Part number |
|---|---|---|
| 1 | Anvil | 07220-07701 |
| 2 | Collet | 07220-07702 |
| 3 | Jaws | 73411-03303 |
| 4 | Follower | 07220-07703 |
| 5 | Spring | 07220-06305 |
| 6 | Spring guide | 07220-07704 |

## Nose assembly fitting instructions:

1. Lightly coat Jaws (3) with Moly Lithium grease.
2. Assemble Spring guide (6), Spring (5), and Follower (4). Stand them on end on a flat, even surface.
3. Balance the three Jaws (3) on Follower (4).
4. Carefully lower Collet (2) over the assembled components.
5. Hold the tool pointing down. Screw the assembled collet fully onto the tool head piston. Tighten with a suitable spanner.
6. Place Anvil (1) over Collet (2) and onto the tool.
7. Place Adaptor ring so that the slot of Adaptor ring fits onto the lugs of Anvil (1).
8. Place Lock nut over Anvil and tighten it onto the tool with a suitable spanner.

The recommended tightening torque for Lock nut: 30Nm-50Nm.

# 4.3 User interface

User Interface panel at back side of tool consist of Pull-to-force, Pull-to stroke switch (12) and two Rotate switches (13).

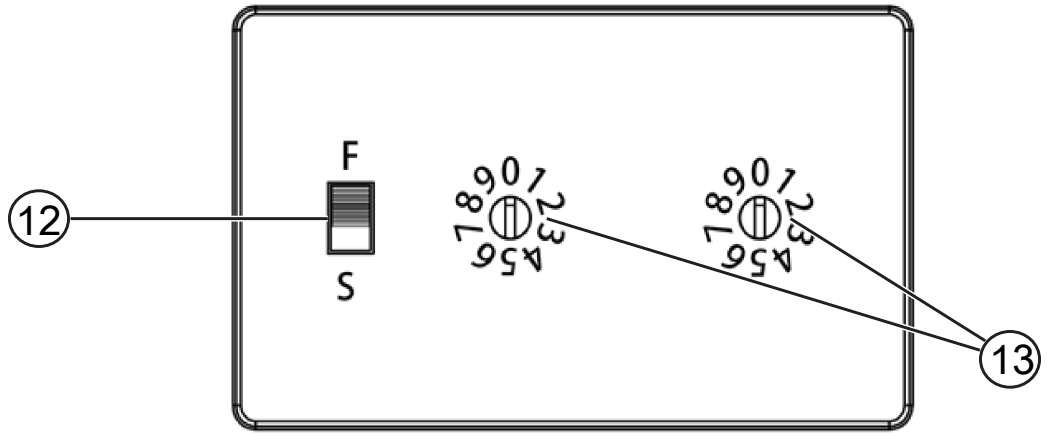



*Fig. 3:* User interface

| | |
|---|---|
| 12 Force stroke switch | 13 Rotate switches |

### AVBOLT® Standard rivet

When using a standard Avbolt rivet, set both rotate switches (13) to “0” and “0”. The directions of rotate switch (13) can be determined by the hollow side of the switch. Use the provided flathead screwdriver to rotate switch (13). The force stroke switch (12) can be set in either way when using a standard Avbolt rivet.

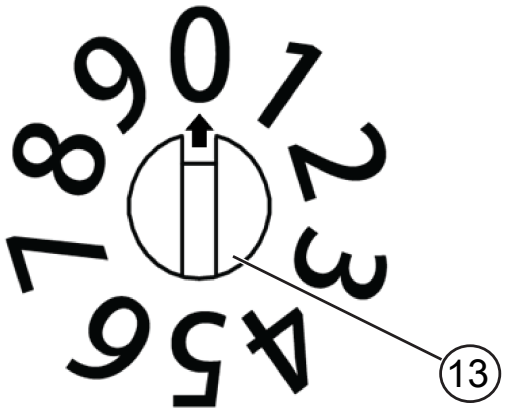



*Fig. 4:* Rotate switch

## 4.4 Chargers

Your tool uses a DEWALT® charger. Be sure to read all safety instructions before using your charger. The charger requires no adjustment and is designed to be as easy as possible to operate.

### 4.4.1 Charging a battery

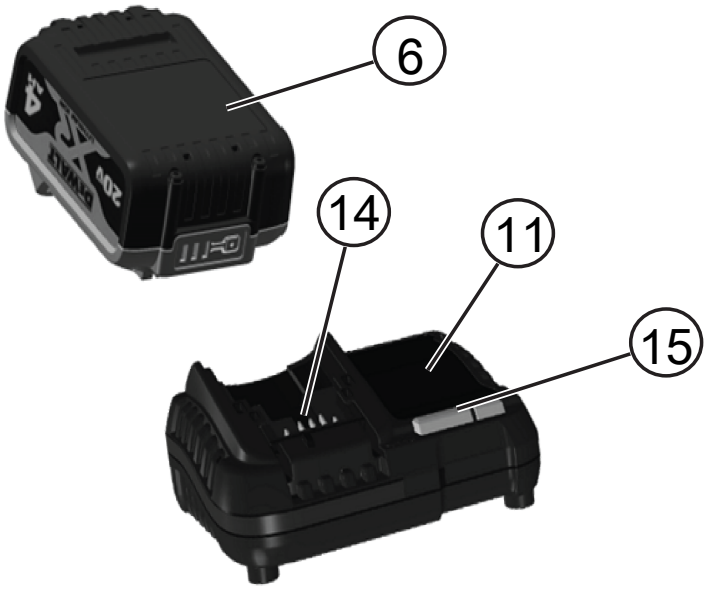



*Fig. 5:* Inserting battery pack

| | | | |
|---|---|---|---|
| 6 | Battery pack | 11 | Charger |
| 14 | Battery charger connection | 15 | Charger lamp |

1. Plug the charger into an appropriate outlet before inserting the battery pack. (Refer to the Charger Specifications)
2. Insert the battery pack into the charger, making sure the pack is fully seated in the charger. The red (charging) light will blink continuously indicating that the charging-process has started.
3. The completion of charge will be indicated by the red light remaining ON continuously. The pack is fully charged and may be used at this time or left in the charger.
4. To remove the battery pack from the charger, push the battery release button on the battery pack.

**NOTE**

To ensure maximum performance and life of Li-Ion battery packs, charge the battery pack fully before first use.

### 4.4.2 Charging operation

Refer to the table below for the state of charge of the battery pack.

| **Charge Indicators:** | | | |
|---|---|---|---|
| | Charging | | |
| | Fully charged | | |
| | Hot/cold pack delay* | | |

The red light will continue to blink, but a yellow indicator light will be illuminated during this operation. Once the battery has reached an appropriate temperature, the yellow light will turn off and the charger will resume the charging procedure.

This charger will not charge a faulty battery pack. The charger will indicate faulty battery by refusing to light or by displaying problem pack or charger blink pattern.

**NOTE**

This could also mean a problem with a charger. If the charger indicates a problem, take the charger and battery pack to be tested at an authorised service centre.

### Hot/Cold Pack Delay

When the charger detects a battery that is too hot or too cold, it automatically starts a hot/cold pack delay, suspending charging until the battery has reached an appropriate temperature. The charger then automatically switches to the pack charging mode. This feature ensures maximum battery life. A cold battery pack will charge at about half the rate of a warm battery pack. The battery pack will charge at that slower rate throughout the entire charging cycle and will not return to maximum charge rate even if the battery warms.

## 4.4.3 Lithium-Ion battery packs

STANLEY Engineered Fastening® Li-Ion tools are designed with an electronic protection system that will protect the battery against overloading, overheating or deep discharge. The tool will automatically turn off if the electronic protection system engages. If this occurs, place the Li-Ion battery on the charger until it is fully charged.

# 4.5 Battery packs

### Inserting and removing the battery pack from the tool


*Fig. 6:* Battery pack

6 Battery Pack

**NOTE**

For best results, make sure your battery pack is fully charged. The tool will shut off without warning when the battery is fully discharged.

### To install the battery pack into the handle

1. Align the battery pack with the rails inside the tool's handle.
2. Slide it into the handle until the battery pack is firmly seated in the tool and ensure that it does not disengage.

## To remove the battery pack from the handle

1. Press battery release button and firmly pull the battery pack out of the tool handle.
2. Insert battery pack into the charger as described in the charger section for this manual.

## Storage recommendations

- The best storage place is one that is cool and dry away from direct sunlight and excess heat or cold. For optimum battery performance and life, store battery packs at room temperature when not in use.
- For long storage, it is recommended to store a fully charged battery pack in a cool, dry place out of the charger for optimal results.

**NOTE**

Battery packs should not be stored completely depleted of charge. The battery pack will need to be recharged before use.

# 5 Operating procedure

**⚠ CAUTION**

Always observe the safety instructions and applicable regulations.

**⚠ CAUTION**

To reduce the risk of serious personal injury, disconnect battery pack before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.

**⚠ CAUTION**

To reduce the risk of serious personal injury, always use proper hand position.

**⚠ CAUTION**

To reduce the risk of serious personal injury, always hold securely in anticipation of a sudden reaction.

## 5.1 Proper hand position

Proper hand position requires one hand on the main handle. The tool can be operated with either the left or right hand.

## 5.2 Tool Operation

To install a blind rivet, follow the below instructions:

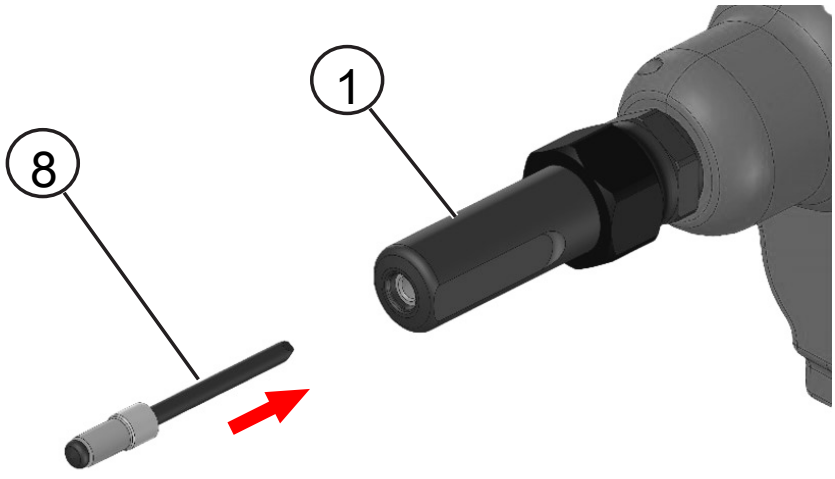



*Fig. 7:* Install a blind rivet

| | |
|---|---|
| 1 Nose assembly | 8 Rivet |

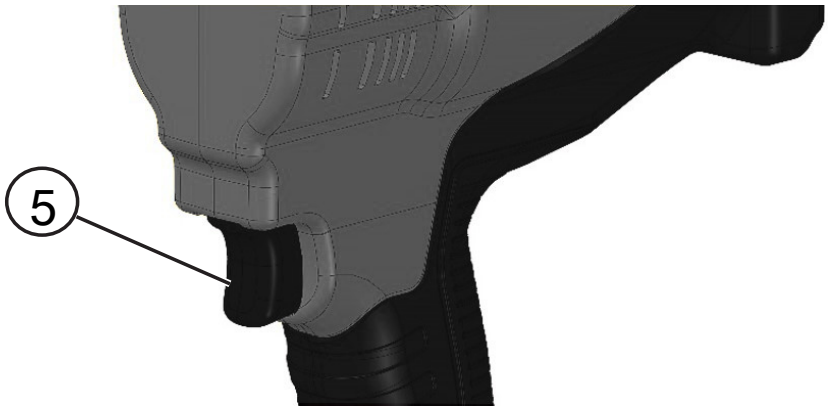



*Fig. 8:* Trigger

| | |
|---|---|
| 5 | Trigger |

1. For Avbolt Standard rivet, please set the user interface (number) value to “0” and “0”. See Chapter User interface [▶ 21].
2. Place the blind rivet into the nose assembly.
3. Position the tool.
4. Pull and hold the trigger until the rivet is fully set in the application.
5. Once the blind rivet is set completely, the tool returns home automatically.
6. Release the trigger.
7. The mandrel is dropped into the mandrel collector when place a next rivet into nose assembly or fasten a next rivet .

If you release the trigger before completing the rivet setting, the tool returns home. If the rivet is not set completely, repeat the previous steps.

## Reset function

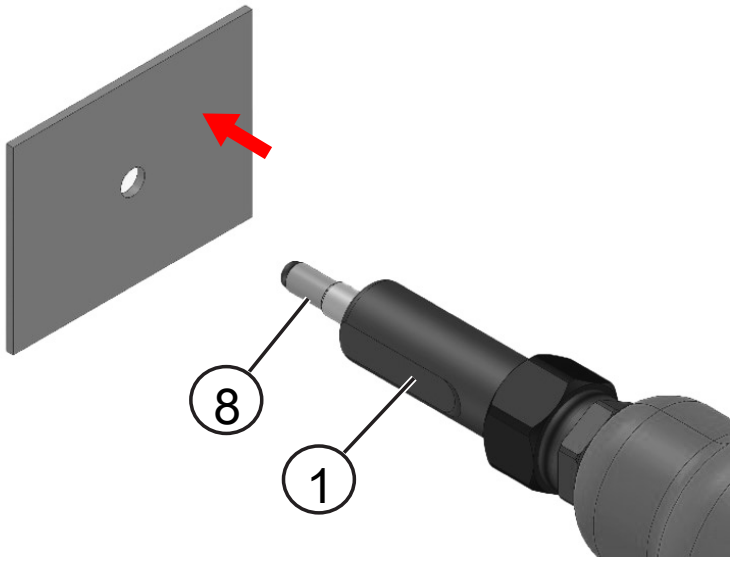



*Fig. 9:* Rivet

| | | | |
|---|---|---|---|
| 1 | Nose assembly | 8 | Rivet |

If the tool does not move to its initial position after releasing the trigger or stops during the setting stroke, reset the tool to home by quickly pulling and releasing the trigger (5). If this does not resolve the issue, remove the battery, re-insert and then repeat the prior step. If the issue persists, contact your local service representative.

## Emptying the mandrel collector

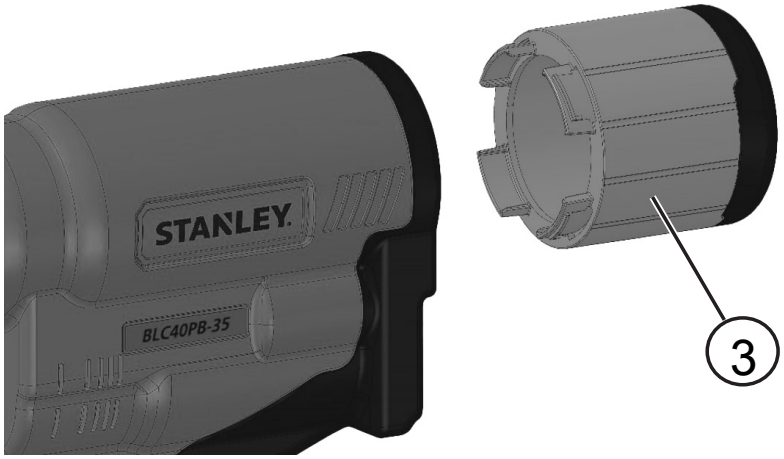



*Fig. 10:* Mandrel collector

3 Mandrel collector

The mandrel collector is used for the collection of waste mandrels. It is necessary to empty the mandrel collector as per the filling level of the collector. Approximately after 100 rivets.

1. Tilt the tool back to allow all waste mandrels to fall into the mandrel collector.
2. To open the mandrel collector (3) rotate the collector in anti-clockwise direction.
3. Empty the waste mandrels into an appropriate recycling container or waste bin.
4. To close the mandrel collector (3), rotate the mandrel collector in clockwise direction until the collector clicks into place.

# 6 Servicing the tool

## 6.1 Maintenance frequency

| Item | Frequency |
|---|---|
| General tool inspection | Daily |
| Clean & lubricate nose equipment | Daily or 5000 installations |
| Check Jaws for wear or damage | 5,000 Installations |
| Check Anvil for wear or damage | 25,000 Installations |
| Full service of tool | 150,000 Installations |

Regular servicing must be carried out by trained personnel and a comprehensive inspection performed annually or every 150,000 cycles, whichever is sooner.

After service or maintenance, quickly pull and release the trigger to set the tool to the home position.

## 6.2 Cleaning

Always wear approved eye and ear protection at all times when cleaning equipment.

### 6.2.1 Tool exterior

Keep the brushless motor exhaust vent openings (7) free from dust and dirt. If necessary, use a soft, moist cloth to remove dust and dirt from the exhaust vents. Blow dirt and dust out of the main power tool housing with dry air as often as dirt is seen collecting in and around the exhaust vents (7).

**⚠ WARNING**

Wear approved eye protection and approved dust mask when performing this procedure

**⚠ WARNING**

Never use solvents or other harsh chemicals for cleaning the non-metallic parts of the tool. These chemicals may weaken the materials used in these parts. Use a cloth dampened only with water and mild soap. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid.

### 6.2.2 Cleaning and servicing assembly

Dismantle and clean the nose assembly with special attention to the jaws. Lubricate with Molybdenum disulphide grease before assembling. See Chapter Nose equipment [▶ 21] for assembling and dismantling.

### 6.2.3 Charger cleaning instructions

**⚠ WARNING**

Shock hazard. Disconnect the charger from the AC outlet before cleaning.

Dirt and grease may be removed from the exterior of the charger using a cloth or soft non-metallic brush. Do not use water or any cleaning solutions.

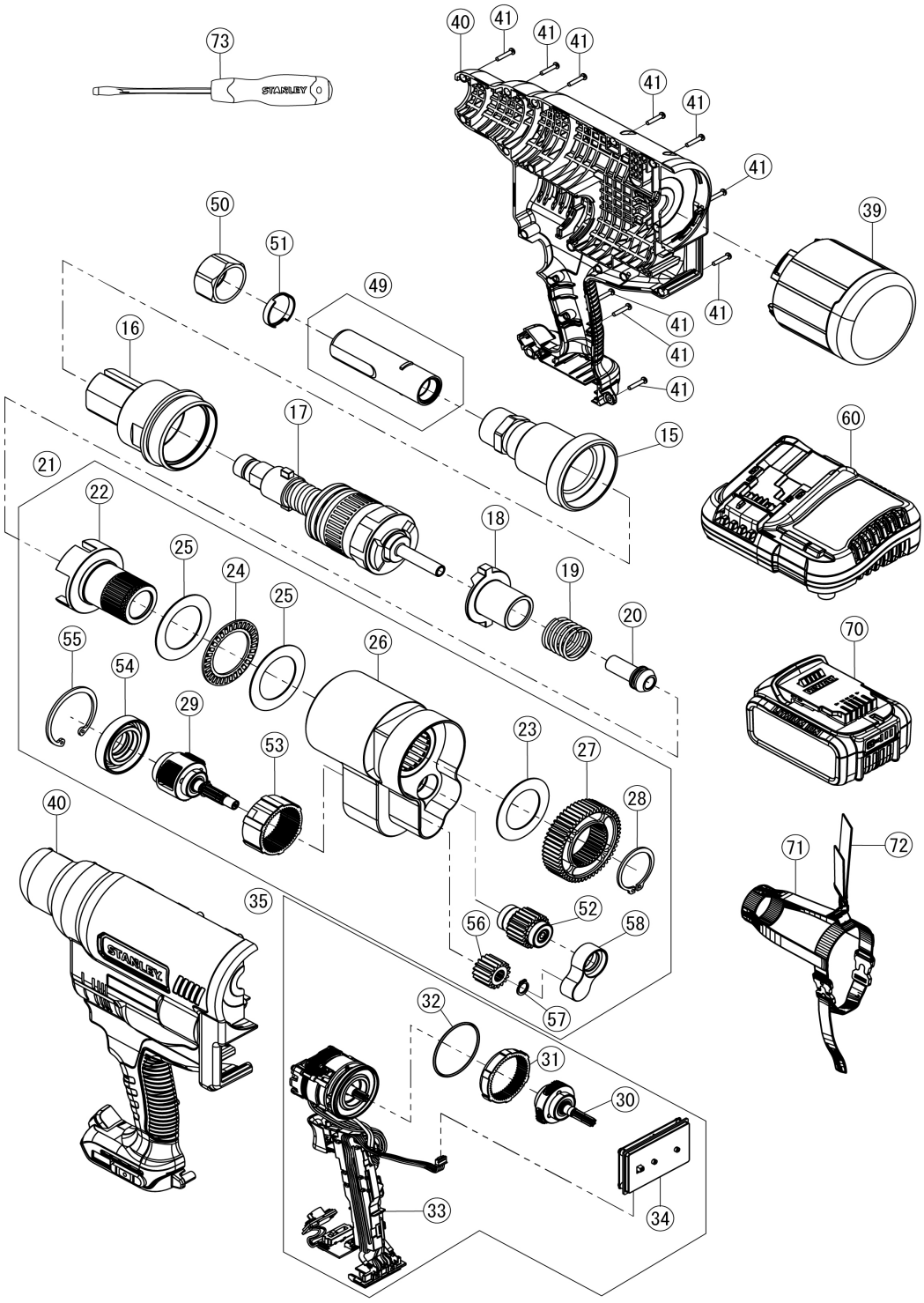
## 6.3 Rechargeable battery pack

This long life battery pack must be recharged when it fails to produce sufficient power on jobs which were easily done before. At the end of its technical life, discard it with due care for our environment:

- Run the battery pack down completely, then remove it from the tool.
- Li-Ion cells are recyclable. Take them to your dealer or a local recycling station. The collected battery packs will be recycled or disposed of properly.

# 7 General assemblies

## 7.1 Exploded view



# 7.2 BOM

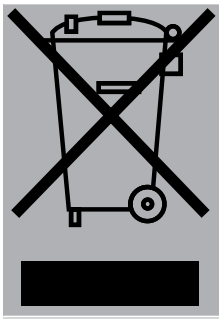
| Number | Part Name | Part Number | Quantity |
|---|---|---|---|
| 15 | ANVIL ADAPTOR | TRM01442 | 1 |
| 16 | MAST HOUSING | TRM01441 | 1 |
| 17 | PULLING HEAD ASSEMBLY | TRM01443 | 1 |
| 18 | SPINDLE CLUTCH | TRM01449 | 1 |
| 19 | SPINDLE CLUTCH SPRING | TRM01450 | 1 |
| 20 | TAIL GUIDE | TRM01484 | 1 |
| 21 | GEAR HOUSING ASSEMBLY | TRM01451 | 1 |
| 22 | SPINDLE | TRM01452 | 1 |
| 23 | THRUST WASHER | TRM01460 | 1 |
| 24 | THRUST NEEDLE ROLLER BEARING | TRM01458 | 1 |
| 25 | THRUST RACE | TRM01459 | 2 |
| 26 | SA GEAR HOUSING | TRM01455 | 1 |
| 27 | SPUR GEAR | TRM01462 | 1 |
| 28 | SNAP RING | TRM01463 | 1 |
| 29 | SA 2ND PLANETARY | TRM01467 | 1 |
| 52 | SA IDLE GEAR | TRM01464 | 1 |
| 53 | GEAR, RING | TRM01475 | 1 |
| 54 | GEAR HOUSING CAP | TRM01476 | 1 |
| 55 | SNAP RING | TRM01477 | 1 |
| 56 | SPUR GEAR | TRM01473 | 1 |
| 57 | SNAP RING | TRM01474 | 1 |
| 58 | SA BEARING SUPPORT | TRM01577 | 1 |
| 35 | MOTOR AND MODULE ASSEMBLY | TRM01481 | 1 |
| 30 | SA 1ST PLANETARY CARRIER | TRM01478 | 1 |
| 31 | GEAR, RING | N112877 | 1 |
| 32 | O RING | TP124-511 | 1 |
| 33 | SA MOTOR AND MODULE, PB3400 | TRM01482 | 1 |
| 34 | UI BOARD ASSEMBLY | TRM01485 | 1 |
| 39 | COLLECTOR / COLLECTOR ASSEMBLY | TRM01560 | 1 |
| 40 | HOUSING ASSEMBLY, A9 | TRM01490 | 1* |
| | HOUSING ASSEMBLY, QW | TRM01491 | * |
| | HOUSING ASSEMBLY, JP | TRM01492 | * |
| 41 | CROSS RECESSED PAN HEAD TAPPING SCREWS | TP124-513 | 19 |
| 49 | NOSE ASSEMBLY AVBOLT STD 5/16" | 07220-07700 | 1* |
| 50 | LOCK NUT | 73200-02042 | 1 |
| 51 | ADAPTOR RING | 73200-02043 | 1 |
| 60 | CHARGER | DCB1104 | 1** |
| 70 | BATTERY | DCB182 OR DCB204 | 2** |
| 71 | FABRIC HARNESS | TRM01589 | 1* |
| 72 | SHOULDER STRAP | N463971 | 1* |
| 73 | SCREWDRIVER | 60-821-23 | 1* |

*Depending on kit codes.

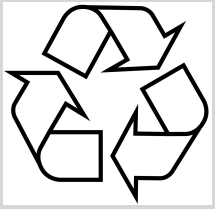
**Battery and charger may vary as per availability/requirement.

# 8 Protecting the environment

Separate collection. This product must not be disposed of with normal household waste.



Should you find one day that your STANLEY Engineered Fastening® product needs replacement, or if it is of no further use to you, do not dispose of it with household waste. Make this product available for separate collection. Separate collection of used products and packaging allows materials to be recycled and used again. Re-use of recycled materials helps prevent environmental pollution and reduces the demand for raw materials.



Local regulations may provide for separate collection of electrical products from the household, at municipal waste sites or by the retailer when you purchase a new product. You can check the location of your nearest authorised repair agent by contacting your local STANLEY Engineered Fastening® office at the address indicated in this manual. Alternatively, a list of authorised STANLEY Engineered Fastening® repair agents and full details of our after-sales service and contacts are available on the Internet at:
www.StanleyEngineeredFastening.com

## The RBRC® Seal


The RBRC® (Rechargeable Battery Recycling Corporation) Seal on the nickel cadmium, nickel metal hydride or lithium-ion batteries (or battery packs) indicates that the costs to recycle these batteries (or battery packs) at the end of their useful life have already been paid by DEWALT®. In some areas, it is illegal to place spent nickel cadmium, nickel metal hydride or lithium-ion batteries in the trash or municipal solid waste stream and the Call 2 Recycle® program provides an environmentally conscious alternative.

Call 2 recycle, Inc., in cooperation with DEWALT® and other battery users, has established the program in the United States and Canada to facilitate the collection of spent nickel cadmium, nickel metal hydride or lithium-ion batteries. Help protect our environment and conserve natural resources by returning the spent nickel cadmium, nickel metal hydride or lithium-ion batteries to an authorized DEWALT® service center or to your local retailer for recycling. You may also contact your local recycling center for information on where to drop off the spent battery. RBRC® is a registered trademark of Call 2 recycle, Inc.

# 9 Declaration of conformity

## 9.1 EU Declaration of conformity

We, **Stanley Engineered Fastening, Nippon POP Rivets and Fasteners Ltd., Hosoda, Noyori-cho, Toyohashi, Aichi, 441-8540 JAPAN**, declare under our sole responsibility that the product:

| | |
|---|---|
| **Description:** | **Lock Bolt Tool** |
| **Model:** | **BLC40PB-35** |

The manufacturer declares that the product indicated above complies with all relevant provisions and requirements of the following regulation:

| | |
|---|---|
| EU/2023/1230 | Machinery Regulation |
| 2014/30/EU | EMC Directive |
| 2011/65/EU | RoHS Directive |

To which this declaration relates is in conformity with the following harmonized standards:

| | |
|---|---|
| ISO 12100:2010 | Safety of Machinery-General Principles for Design-Risk Assessment and Risk Reduction |
| EN 62841-1:2015/A11:2022 | Electric Motor-Operated Hand-held Tools, Transportable Tools and Lawn and Garden Machinery – Safety - Part 1: General Requirement |
| EN IEC 55014-1: 2021 | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission |
| EN IEC 55014-2: 2021 | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard |
| EN IEC 61000-3-2: 2019/A2:2024 | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) |
| EN IEC 61000-3-3: 2013 + A2: 2021 | Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection |

Technical documentation is compiled in accordance with Annex 1, section 1.7.4.1, in accordance with the following Regulation : **EU/2023/1230 The Machinery Regulation** (Statutory Instruments 2008 No 1597 - The Supply of Machinery (Safety) Regulations refers).

The undersigned makes this declaration on behalf of STANLEY Engineered Fastening

**Daisuke Mori**

**Director of Engineering, Japan**

Nippon POP Rivets and Fasteners Ltd., Hosoda, Noyori-cho, Toyohashi, Aichi, 441-8540 JAPAN

| | |
|---|---|
| **Place of Issue:** | **Aichi, Japan** |
| **Date of Issue:** | **26-03-2025** |

The undersigned authorized representative is responsible for compilation of the technical file for products sold in the European Union and makes this declaration on behalf of Stanley Engineered Fastening.

Matthias Appel
Team Leader Technical Documentation
Stanley Engineered Fastening, Tucker GmbH, Max-Eyth-Str.1, 35394 Gießen, Germany

CE This machinery is in conformity with the Machinery Regulation EU/2023/1230

# 9.2 UK Declaration of conformity

We, **Stanley Engineered Fastening, Nippon POP Rivets and Fasteners Ltd., Hosoda, Noyori-cho, Toyohashi, Aichi, 441-8540 JAPAN**, declare under our sole responsibility that the product:

| | |
|---|---|
| **Description:** | **Lock Bolt Tool** |
| **Model:** | **BLC40PB-35** |

The manufacturer declares that the product indicated above complies with all relevant provisions and requirements of the following applicable regulations:

Supply of Machinery (Safety) Regulations 2008, S.I. 2008/1597 (as amended)

Electromagnetic Compatibility Regulations 2016, S.I. 2016/1091 (as amended)

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (as amended)

The following designated standards and technical specifications have been applied:

| | |
|---|---|
| ISO 12100:2010 | Safety of Machinery-General Principles for Design-Risk Assessment and Risk Reduction |
| EN 62841-1:2015/A11:2022 | Electric Motor-Operated Hand-held Tools, Transportable Tools and Lawn and Garden Machinery – Safety - Part 1: General Requirement |
| EN IEC 55014-1: 2021 | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission |
| EN IEC 55014-2: 2021 | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard |
| EN IEC 61000-3-2: 2019/A2:2024 | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) |
| EN IEC 61000-3-3: 2013 + A2: 2021 | Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection |

Technical documentation is compiled in accordance with the Supply of Machinery (Safety) Regulations 2008, S.I. 2008/1597 (as amended).

The undersigned makes this declaration on behalf of STANLEY Engineered Fastening

Daisuke Mori

**Daisuke Mori**

**Director of Engineering, Japan**

Nippon POP Rivets and Fasteners Ltd., Hosoda, Noyori-cho, Toyohashi, Aichi, 441-8540 JAPAN

| | |
|---|---|
| **Place of Issue:** | **Aichi, Japan** |
| **Date of Issue:** | **26-03-2025** |

The undersigned authorized representative is responsible for compilation of the technical file for products sold in the United Kingdom and makes this declaration on behalf of Stanley Engineered Fastening.

**Angus Seewraj**

**Director of Blind Fastener Engineering, UK**

Stanley Engineered Fastening, 43 Hardwick Grange, Warrington, WA1 4RF, United Kingdom.

UK CA **This machinery is in conformity with Supply of Machinery (Safety) Regulations 2008, S.I. 2008/1597 (as amended)**

STANLEY Engineered Fastening

# 10 Protect your investment

## STANLEY® Engineered Fastening tool warranty

STANLEY® Engineered Fastening warrants that all power tools have been carefully manufactured and that they will be free from defect in material and workmanship under normal use and service for a period of one (1) year.

We will extend the warranty on your tool (excluding batteries and charger) from one (1) year to two (2) years, when you register your tool online. (Ref. Register tool online at the bottom of this page.)

This warranty applies to the first-time purchaser of the tool for original use only.

## Exclusions:

### Normal wear and tear

Periodic maintenance, repair and replacement parts due to normal wear and tear are excluded from coverage.

### Abuse & misuse

Defect or damage that results from improper operation, storage, misuse or abuse, accident or neglect, such as physical damage are excluded from coverage.

### Unauthorized service or modification

Defects or damages resulting from service, testing adjustment, installation, maintenance, alteration or modification in any way by anyone other than STANLEY® Engineered Fastening, or its authorized service centres, are excluded from coverage.

All other warranties, whether expressed or implied, including any warranties of merchantability or fitness for purpose are hereby excluded.

Should this tool fail to meet the warranty, promptly return the tool to our factory authorized service centre location nearest you. For a list of STANLEY® Engineered Fastening Authorized Service Centres in the US or Canada, contact us at our toll free number (877)364 2781.

Outside the US and Canada, visit our website www.StanleyEngineeredFastening.com to find your nearest STANLEY® Engineered Fastening location.

STANLEY® Engineered Fastening will then replace, free of charge, any part or parts found by us to be defective due to faulty material or workmanship and return the tool prepaid. This represents our sole obligation under this warranty. In no event shall STANLEY® Engineered Fastening be liable for any consequential or special damages arising out of the purchase or use of this tool.

## Register your blind rivet tool online

To register your warranty online, visit us at https://www.stanleyengineeredfastening.com/support/warranty-registration-form

Thank you for choosing a STANLEY® Engineered Fastening's Stanley Assembly Technologies Brand tool.

The BLC40PB-35 Operating Manual can be accessed at:

https://www.stanleyengineeredfastening.com/en/tools/Power-Tools/BLC40PB-35-Battery-Powered-Tool

# Notes

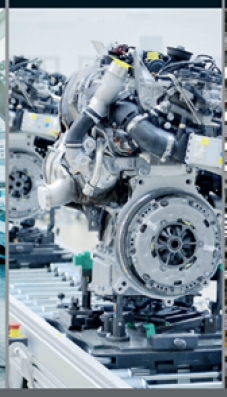
STANLEY Engineered Fastening

# Product Portfolios

| AVDEL | INTEGRA | NELSON | OPTIA | POP | STANLEY Assembly Technologies | TUCKER |
|---|---|---|---|---|---|---|
| Structural Blind Fasteners | Plastic Components | Stud Welding | Threaded Fasteners | Non-structural Blind Fasteners | Specialist Assembly | Automated Fastener Systems |






STANLEY Engineered Fastening

Stanley Engineered Fastening — a division of Stanley Black and Decker — is the global leader in precision fastening and assembly solutions. Our industry-leading brands, Avdel®, Integra™, Nelson®, Optia™, POP®, STANLEY® Assembly Technologies, and Tucker®, elevate what our customers create. Backed by a team of passionate and responsive problem-solvers, we empower engineers who are changing the world.

**STANLEY ENGINEERED FASTENING FAMILY OF BRANDS**

AVDEL INTEGRA NELSON OPTIA POP STANLEY Assembly Technologies TUCKER



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