

TaskMaster™



⚠ WARNING!

Read this Operator's Manual carefully before using this tool. Failure to understand and follow the contents of this manual may result in electrical shock, fire and/or serious personal injury.

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ILSCO

IVTB-6-ALIO

TaskMaster™



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IVTB-6-ALIO TaskMaster™

Record Serial Number below and retain product serial number which is located on nameplate.

Serial
No.

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Safety Symbols

In this operator's manual and on the product, safety symbols and signal words are used to communicate important safety information. This section is provided to improve understanding of these signal words and symbols.

 This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

 **DANGER** DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

 **WARNING** WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 **CAUTION** CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE NOTICE indicates information that relates to the protection of property.



This symbol means read the operator's manual carefully before using the equipment. The operator's manual contains important information on the safe and proper operation of the equipment.



This symbol means always wear safety glasses with side shields or goggles when handling or using this equipment to reduce the risk of eye injury.



This symbol indicates the risk of hands, fingers or other body parts being crushed.



This symbol indicates the risk of electrical shock.

General Safety Rules*

WARNING

Read all safety warnings and instructions. Failure to follow the warnings and instructions 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.

Work Area Safety

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

Electrical Safety

- **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.

- **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electrical shock if your body is earthed or grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electrical shock.
- **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.
- **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.
- **If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of a GFCI reduces the risk of electric shock.

* The text used in the General Safety Rule section of this manual is verbatim, as required, from the applicable UL/CSA 60745 standard. This section contains general safety practices for many different types of power tools. Not every precaution applies to every tool, and some do not apply to this tool.

Personal Safety

- **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.
- **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.
- **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.
- **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.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
- **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.

Power Tool Use And Care

- **Do not force 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 is designed.
- **Do not use 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.
- **Disconnect the plug from the power source and/or 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.
- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the pow-**

er tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

- **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.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **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.

Battery Tool Use And Care

- **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.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **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.
- **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.

Service

- **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.

Specific Safety Information

⚠ WARNING

This section contains important safety information that is specific to this tool.

Read these precautions carefully before using the electrical tool to reduce the risk of electrical shock or serious personal injury.

SAVE THESE INSTRUCTIONS!

A compartment in the tool carrying case is included to keep this manual with the machine for use by the operator.

TaskMaster™ Safety

- **Use the TaskMaster only with appropriate RIDGID® QuickChange System™ (QCS™) interchangeable heads (cutting head, crimping head, punching head, etc.).** Using the tool for other applications may damage the electrical tool, damage the head and/or cause personal injury.
- **Do not modify tool or heads.** Modifying the Tool or heads in any manner may result in personal injury.
- **Never repair a damaged head.** A head that has been welded, ground, drilled or modified in any manner can break during use. Never replace individual components. Discard damaged heads to reduce the risk of injury.
- **Keep your fingers and hands away from the interchangeable head during the operating cycle.** Your fingers or hands can be crushed, fractured or amputated if they become caught in the head or between the head and other objects.
- **This tool is not insulated for use on or near energized conductors.** Use of this tool near energized conductors may lead to electrical shock, causing severe injury or death.
- **Large forces are generated during use that can break or throw parts and cause injury. Keep all unnecessary personnel away from work area.** Stand clear during use and wear appropriate protective equipment, including eye protection.
- **Do not operate the tool without an interchangeable head in place and dies/inserts properly installed in the head when required.** This can damage the tool or head and/or cause serious personal injury.
- **Before operating an ILSCO® TaskMaster™, read and understand:**
 - This operator’s manual,
 - The interchangeable head instructions,
 - The battery/charger manual,

- The connector and die/insert manufacturer’s installation instructions,
 - The instructions for any other equipment used with this tool,
- Failure to follow all instructions and warnings may result in property damage and/or serious injury.

If you have any question concerning this ILSCO® product:

- Contact ILSCO® Customer service at 800-776-9775.

Description, Specifications And Standard Equipment

Description

The ILSCO® Model IVTB-6-ALIO TaskMaster™ is an electro-hydraulic tool, which when used with appropriate interchangeable heads perform a variety of functions, such as crimping electrical compression connections, cutting electrical cables and hole punching operations.

When operated, an internal electric motor powers a hydraulic pump which supplies fluid to the cylinder of the tool, moving the ram forward and applying force to specially designed interchangeable heads.

The tool is equipped with the RIDGID® QuickChange System (QCS) for installing the various interchangeable heads. This also allows interchangeable heads to be rotated 360° for better access in tight spaces.

There are different QCS types. Make sure that the tool and interchangeable head QCS types are compatible (*Figure 1*).

The tool comes with two (2) fabric loops that can be used with appropriate attachments such as shoulder straps or tie off lanyard.

The tool is equipped with a bright LED work light that lights up when the run switch is pulled. This allows the user to easily illuminate the work area.

The tool LED display indicates the tool’s status (tool ON/OFF, temperature out of range, service required).



Figure 1 – IVTB-6 ALIO Electrical Tool

Tool Inspection

⚠ WARNING



Daily before use, inspect your electrical tool and correct any problems to reduce the risk of serious injury from electric shock, crushing injuries, interchangeable head failure and other causes, and prevent tool damage.

1. Make sure that the electrical tool battery is removed. Inspect the battery for damage. If any damage or modifications are found, do not use until the battery has been properly repaired or replaced.
2. Clean any oil, grease or dirt from the tool, including the QCS Sleeve, handles and controls. This aids inspection and helps prevent the machine from slipping from your grip.
3. Inspect the electrical tool for the following:
 - Proper assembly, maintenance and completeness (See Figures 1-3).
 - Any broken, worn, missing, misaligned or binding parts.
 - Presence and readability of the tool and battery warning labels.
 - The fabric loops are undamaged and stitching is not torn.
 - Foreign material in the QCS that could damage the electrical tool or interchangeable heads.
 - Confirm that the twelve (12) retaining balls in the QCS coupling are present in all openings and that there is no damage. *Figure 4* shows the inside of a complete and clean QCS coupling.

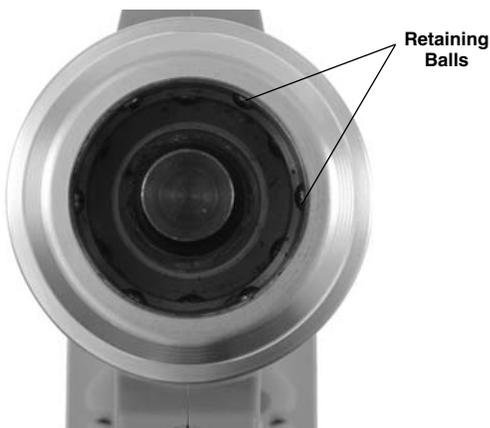


Figure 4 – Inside of QCS Coupling

- Any other condition which may prevent safe and normal operation.

If any problems are found, do not use the tool until the problems have been repaired.

4. Inspect and maintain any other equipment being used per its instructions to make sure it is functioning properly. Inspect the interchangeable heads for wear, deformation or other issues. When inspecting the mating portion of the QCS coupling on the interchangeable heads, dimples in the grooves of the QCS coupling are normal with use and are not considered damage (*Figure 5*).

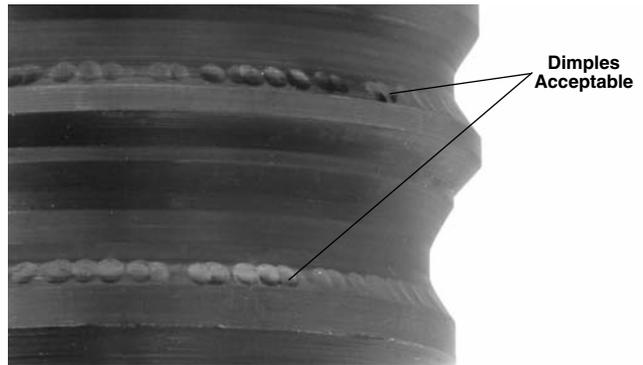


Figure 5 – Dimples In QCS Coupling Grooves

Set-Up And Operating Instructions

⚠ WARNING



Keep your fingers and hands away from the interchangeable head during the operating cycle. Your fingers or hands can be crushed, fractured or amputated in the interchangeable head or tool or between the interchangeable head, work piece and other objects.

This tool is not insulated for use on or near energized conductors. Use of this tool near energized conductors may lead to electrical shock, causing severe injury or death.

Large forces are generated during use that can break or throw parts and cause injury. Keep all unnecessary personnel away from work area. Stand clear during use and wear appropriate protective equipment, including eye protection.

Do not operate the electrical tool without an interchangeable head in place/inserts in the interchangeable head. This can damage the electrical

tool or interchangeable head and/or cause serious personal injury.

Follow set up and operating instructions to reduce the risk of injury from crushing, electrical shock and other causes and to prevent tool damage.

1. Check work area for:
 - Adequate lighting.
 - Flammable liquids, vapors or dust that may ignite. If present, do not work in area until sources have been identified and corrected. The machine is not explosion proof and can cause sparks.
 - Clear, level, stable and dry place for operator. Do not use the tool while standing in water.
2. Inspect the work to be done and determine the correct interchangeable head for the application. Using an incorrect interchangeable head for an application can cause injury, damage the tool and make incomplete connections.

Make sure that the electrical tool and interchangeable heads have been inspected as directed in their instructions. Interchangeable heads should have any inserts installed prior to the interchangeable head being installed in the electrical tool.

3. Evaluate the work area and determine if any barriers are needed to keep bystanders out. Bystanders can distract the tool operator during use.
4. Ensure that the ram is fully retracted by depressing the pressure release button. If the ram is not fully retracted, the interchangeable head may not be properly retained.
5. Remove the battery from the tool. Depress the QCS sleeve on the electrical tool and remove/insert the appropriate interchangeable head. Release the sleeve to retain the interchangeable head (*Figure 6*). Confirm that the correct interchangeable head for the application is fully inserted and locked into the tool before turning ON. Do not operate without an interchangeable head or head inserts installed – this can damage the electrical tool. (If interchangeable head will not lock into QCS, ensure ram is fully retracted by pressing the pressure release button).

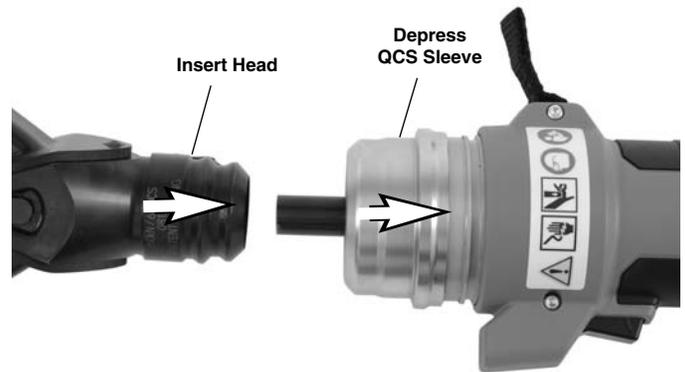


Figure 6 – Installing an interchangeable head in the TaskMaster™

6. With dry hands, install a fully charged battery into the electrical tool. Press the ON/OFF (*Figure 2*) button to power on the electrical tool. All three LED's will blink once. Then, the green LED should solidly illuminate indicating the tool is ready to operate (See *Diagnostic Codes on Figure 7* for information on other tool conditions.) The electrical tool will automatically turn OFF if left unused for 150 seconds. To restart tool, it is necessary to depress the ON/OFF button again.
7. Refer to the instructions for the interchangeable head in use for specific operating instructions. With hands clear of the interchangeable head and other moving parts, depress the Run Switch to advance the tool ram and activate the interchangeable head. The advancement of the ram can be stopped at any point by releasing the Run Switch. This allows final positioning of the interchangeable head for cutting, punching or gripping and positioning of connectors.

To complete the cycle of the tool in most operations, continue to press the Run Switch until the ram automatically retracts unless otherwise stated in the interchangeable head instructions; this indicates that the electrical tool has reached the appropriate force and the cycle is complete. This is required to ensure the complete crimping of electrical connections.

If the ram does not fully retract, press the pressure release button. If this is done during the crimping of an electrical connection, the crimp is not complete and needs to be repeated.

8. When operation is complete, press the ON/OFF button to turn OFF and remove the battery.

Maintenance Instructions

⚠ WARNING

Make sure battery is removed from tool before performing maintenance or making any adjustment.

Cleaning And Lubrication

1. Wipe exterior of the electrical tool clean daily with a clean dry cloth.
2. Clean the interior of the QCS coupling first by pointing the opening towards the ground and gently shaking any debris out. Then, visually inspect the area for any debris. If needed, cotton swabs can be used to wipe out any remaining debris. Do not force any material into the pockets that hold the retaining balls.
3. The QCS coupling is lubricated for life at the factory and does not require any further lubrication. Do not add any lubricant to the QCS coupling.

Required Maintenance At An Independent Service Center

After 30,000 cycles, the TaskMaster™ will show a blinking yellow LED on the LED diagnostic display (*Figure 2*) as long as the tool is turned ON to indicate that it is time for maintenance and recalibration. If the tool is not serviced within 2,000 cycles after the yellow LED light begins blinking; the LED light will remain solidly lit and the tool will not run.

Accessories

⚠ WARNING

The following tool accessories have been designed to function with the IVTB-6-ALIO TaskMaster. Other accessories suitable for use with other tools may become hazardous when used on the IVTB-6-ALIO. To prevent serious injury, use only accessories specifically designed and recommended for use with the IVTB-6-ALIO, such as those listed.

ILSCO Part No.	Description
IVT-CHGR-KIT	1 2.0Ah Battery and Charger Kit
IVT-CHGR-KIT2	2 2.0Ah Batteries and Charger Kit
IVT-18V-BAT2	18V Advanced Lithium 2 Battery (NA)
IVT-18V-BAT4	18V Advanced Lithium 4 Battery (NA)
IVTB-6-ALIO-CHGR	Advanced Lithium Battery Charger
IVT-CORD	Battery Charger Replacement Cord (NA)
IVTB-6-ALIO-CRMP	4P-6 4PIN™ Dieless Crimp Head
IVTB-6-ALIO-CUT	SC-60C Scissor Cutter Head
IVTB-6-ALIO-PUN	PH-60B Punch Head
IVTB-6-ALIO-PWR	IVTB-6 Tool Kit, No Heads
IVTB-6-ALIO-P	IVTB-6 Tool Kit w/ 4P-6, SC-60B, PH-60B
IVTB-6-ALIO	IVTB-6 Tool Kit w/ 4P-6, SC-60B
IVTB-6-ALIO-TOOL	IVTB-6 Tool Only
IVTB-6-ALIO-CASE	IVTB-6 Carrying Case

Storage

Remove battery from tool and store electrical tool and battery in case. Avoid storing the electrical tool, batteries or charger in extreme heat or cold. The electrical tool will not turn ON if the tool or battery temperature is not within the temperature range of 15°F (-10°C) to 122°F (50°C). So it may be necessary to allow the tool to warm or cool to a temperature within the operating range by placing it in a conditioned room before use. This will be indicated by a red glowing LED on the LED diagnostic display.

⚠ WARNING Store the tool in the carrying case and place in a dry, secured area that is out of reach of children and people unfamiliar with the IVTB-6-ALIO TaskMaster™. The electrical tool is dangerous in the hands of untrained users.

Service And Repair

⚠ WARNING

Improper service or repair can make machine unsafe to operate.

Service and repair of the TaskMaster™ must be performed by an independent Crimp Tool Service Center. The tool fasteners have been marked to indicate if service has been performed by unauthorized individuals.

For any repairs or maintenance, contact ILSCO® Customer service at 800-776-9775 for the nearest independent service center.

Disposal

Parts of the ILSCO® TaskMaster™ contains valuable materials and can be recycled. There are companies that specialize in recycling that may be found locally. Dispose of the components in compliance with all applicable regulations. Contact your local waste management authority for more information.

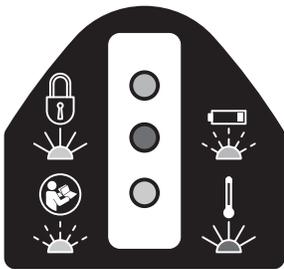
Troubleshooting

SYMPTOM	POSSIBLE REASONS	SOLUTION
Tool will not turn ON when ON/OFF button is pressed.	Battery is completely discharged or battery has failed. ----- Battery not properly inserted into handle of tool.	Insert fully charged battery/recharge battery. ----- Check to assure battery is fully inserted.
Tool will not run when run switch is depressed. Green light flashes.	Battery charge is too low.	Insert fully charged battery/recharge battery.
Tool turns OFF either when run switch is depressed or in the middle of a cycle. Red LED glows.	Tool or battery is too cold or too hot.	Bring tool and battery to correct operating range between 15°F (-10°C) and 122°F (50°C) by allowing the tool to sit in a conditioned room.
Yellow LED blinks repeatedly as long as tool is turned ON and tool functions properly.	Scheduled maintenance/recalibration is required after 30,000 cycles.	Contact ILSCO® Customer Service at 800-776-9775 for nearest Independent Service center.
Yellow LED glows continuously and tool will not begin press cycle when run switch is depressed.	Scheduled maintenance/recalibration is mandatory after 32,000 cycles. Tool is “locked” and will not function until serviced.	Contact ILSCO® Customer Service at 800-776-9775 for nearest Independent Service center.
Yellow LED glows when tool is turned ON.	Tool malfunction detected.	Remove and reinsert fully charged battery. Be sure to repress fitting. If LED continues to glow, Contact ILSCO® Customer Service at 800-776-9775 for nearest Independent Service center.
The connections produced are not complete.	Used wrong interchangeable head/insert for the cable size or material. ----- The tool was not square to the connector. ----- Tool is in need of repair.	Install the correct interchangeable head/insert. ----- Redo the joint. Make sure that the tool is square to the connector. ----- Contact ILSCO® Customer Service at 800-776-9775 for nearest Independent Service center.

Troubleshooting (Continued)

SYMPTOM	POSSIBLE REASONS	SOLUTION
Oil leaks from tool.	Seal or mechanical problems.	Contact ILSCO® Customer Service at 800-776-9775 for nearest Independent Service center.
Motor runs but tool will not complete a cycle.	Oil level low.	Contact ILSCO® Customer Service at 800-776-9775 for nearest Independent Service center.
Dies stop during operation.	Oil level low.	Contact ILSCO® Customer Service at 800-776-9775 for nearest Independent Service center.
Cutting head stops during operation.	Cutting edges are dull or broken.	Replace dull or broken blades with appropriate replacements.
	Material not within blade specification.	Change to blade specified for material to be cut.

IVTB-6-ALIO Diagnostic Codes



Color	Light	Description	Icon
Green		Machine ON.	
		18V: Recharge battery	
Red		Out of temperature range 15°F (-10°C) to 122°F (+50°C).	
Yellow		Service indicator after 30,000 cycles. NOTE: Tool will lock after 32,000 cycles.	
		Tool is locked. Service after 32,000 cycles or after a malfunction.	

Figure 7 – LED Diagnostic Codes

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