

Please read and save these instructions. Read through this owner's manual carefully before using product. Protect yourself and others by observing all safety information, warnings, and cautions. Failure to comply with instructions could result in personal injury and/or damage to product or property. Please retain instructions for future reference.



HEAVY DUTY 1/2" 2VSR CORDLESS 20V LI-ION DRILL

FOR CUSTOMER SERVICE

Technical Question?

CALL 1-866-458-2472
customerservice@oem-tools.com

UNPACKING

After unpacking unit, inspect carefully for any damage that may have occurred during transit. Check for loose, missing, or damaged parts. If any damage is observed, a shipping damage claim must be filed with carrier. Do not use the OEMTOOLS Drill if broken, bent, cracked or damaged parts (including labels) are noted. Any Drill that appears damaged in any way, operates abnormally or is missing parts should be removed from service immediately. If you suspect that the Drill was subjected to shock load (a load that was dropped suddenly, unexpectedly, etc.) immediately discontinue use until it has been checked by a factory authorized service center.



⚠ WARNING

The following safety information is provided as a guideline to help you operate your Drill under the safest possible conditions. Any tool or piece of equipment can be potentially dangerous to use when safety or safe handling instructions are not known or not followed. The following safety instructions are to provide the user with the information necessary for safe use and operation. Please read and retain these instructions for the continued safe use of your service system. Failure to follow instructions listed below may result in serious injury. In addition, make certain that anyone that uses the equipment understands and follows these safety instructions as well.

Explanation of Safety Signal Words

⚠ 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.

CAUTION : Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTES : Provide clarity and helpful information.

Thank you very much for choosing an OEMTOOLS Product!

For future reference, please complete the owner's record below:

Model: _____ **Purchase Date:** _____

Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it. This product is designed for certain applications only. OEMTOOLS cannot be responsible for issues arising from modification. We strongly recommend this product is not modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the product until you have first contacted OEMTOOLS to determine if it can or should be performed on the product.



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IMPORTANT INSTRUCTIONS AND SAFETY RULES

1. Know your tool. Read this manual carefully. Learn the tool's applications and limitations, as well as, potential hazards specific to it.
2. Keep work area clean and well lit. Cluttered or dark work areas invite accidents.
3. Keep children away. All children should be kept away from the work area. Never let a child handle a tool without strict adult supervision.
4. Do not operate this tool if under the influence of alcohol or drugs. Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not attempt to operate.
5. Use safety equipment. Eye protection should be worn at all times when operating this tool. Use ANSI approved safety glasses. Everyday eyeglasses are NOT safety glasses. Dust mask, non-skid safety shoes, hard hat or hearing protection should be used in appropriate conditions.
6. Wear proper apparel. Loose clothing, gloves, neck-ties, rings, bracelets or other jewelry may present a potential hazard when operating this tool. Keep all apparel clear of the tool.
7. Don't overreach. Keep proper footing and balance at all times when operating this tool.
8. Check for damage. Check your tool regularly. If part of the tool is damaged it should be carefully inspected to make sure that it can perform its intended function correctly. If in doubt, the part should be repaired. Refer all servicing to a qualified technician. Consult your dealer for advice.
9. Keep away from flammables. Do not attempt to operate this tool near flammable materials or combustibles. Failure to comply may cause serious injury or death.
10. Store idle tools out of the reach of children and untrained persons. Tools may be dangerous in the hands of untrained users.
11. Maintain tools with care.
12. Keep tools dry and clean.
13. Do not use a damaged tool. Tag damaged tools "Do not use" until repaired.
14. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another tool.
15. Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
16. When servicing a tool, use only identical replacement parts. Use of unauthorized parts or failure to follow maintenance instructions may create a risk of injury.
17. Maintain a safe working environment. Keep the work area well lit. Make sure there is adequate surrounding workspace. Keep the work area free of obstructions, grease, oil, trash, and other debris. Do not use this product in a damp or wet location.
18. Maintain labels and nameplates on this product. These carry important information. If unreadable or missing, contact OEMTOOLS for a replacement.
19. Before use, read and understand all warnings, safety precautions,

and instructions as outlined in the vehicle manufacturer's service manual. It is beyond the scope of this manual to properly describe the correct procedure and test data for each vehicle.

20. Always perform vehicle service in a properly ventilated area. Never run an engine without proper ventilation for its exhaust. Stop work and take necessary steps to improve ventilation in the work area if you develop momentary eye, nose, or throat irritation as this indicates inadequate ventilation.

WARNING

Read Rules for Safe Operation and Instructions Carefully.

IMPORTANT SAFETY INSTRUCTIONS

The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

DISPOSAL

At the end of the useful life of the OEMTOOLS Drill, dispose of the components according to all state, federal, and local regulations.

BATTERY DISPOSAL

Exposure to high temperatures can cause the batteries to explode; do not dispose of in a fire. Some countries have regulations concerning battery disposal. Follow all applicable regulations. Return used batteries to a collection location for recycling. Call 800-822-8837 or visit www.call2recycle.org to find a collection location.

PURPOSE

The OEMTOOLS Heavy Duty 1/2" 2VSR Cordless 20V Li-Ion Drill is used for drilling holes, driving screws, loosening or tightening various materials together with fasteners and other applications.

PRODUCT SPECIFICATIONS

Chuck Size:	1/2"
2 Speed Gear Box:	0-600 RPM and 0-2,000 RPM
Weight:	7 Lbs.
Charge Time:	1 Hour
Clutch:	21 + 1 Torque Clutch Setting
Includes:	Lithium-Ion Battery with Charging Station and Chuck

INSTRUCTIONS:

Always wear safety goggles and gloves.

DRILLING

1. If drilling in a small work piece, make sure it is securely held in a vise or clamped to a secure platform such as a bench or table.
2. Install the correct drill bit in the chuck. Rotate the chuck body to loosen or tighten the drill bit in the chuck. Never use the drill's power to rotate the chuck body.
3. Select the rotation direction to clockwise using the button located above the trigger switch.



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4. Select the correct transmission speed. Use the slower speed for drilling large holes.
5. Set the torque adjusting collar to the drilling position (drill icon on tool).
6. Slide the fully charged battery pack onto the base of the handle.
7. Mark the drilling point with a center punch when drilling in metal to prevent the drill bit from slipping off center as you begin drilling.
8. Place the drill bit at the location of the hole to be drilled and squeeze the trigger. The harder you squeeze, the faster the drill turns.

DRIVING SCREWS

1. Install the correct screwdriver bit in the chuck. Use the largest bit size that will properly fit the screw. Make sure the flat sides of the bit are gripped by the chuck.
2. Set the transmission speed to low speed.
3. Set the rotation directions to clockwise.
4. Set the torque collar to #10.
5. Place the screwdriver bit into the screw and hold the bit firmly into the screw to prevent slippage and drive a test screw.
6. After driving a test screw, adjust the torque setting up or down so the screw is driven to the desired depth without being over driven.
7. Release the trigger immediately when the torque clutch begins to "rattle".
8. Driven screws can be removed by reversing the direction of the rotation.

CHARGE THE BATTERY:

NOTE: A discharged battery pack will be fully charged in approximately one hour. Remove the battery pack from the tool when not in use.

WARNING

Always charge the battery pack indoors in a well-ventilated area. The charger must never be subjected to wet conditions.

ELECTRICAL WARNING

POWER SOURCE CONNECTION POWER REQUIREMENTS

This product is designed to operate on a properly grounded 120 volt, 60Hz, single-phase alternating current (AC) power source fused with a time delayed fuse or circuit breaker. It is recommended that a qualified electrician verify the ACTUAL VOLTAGE at the receptacle into which the product will be plugged and confirm that the receptacle is properly fused and grounded.

DO NOT OPERATE THIS PRODUCT if the ACTUAL power source voltage is less than 105 volts AC or greater than 132 volts AC. Contact a qualified electrician if this problem exists. Improper performance and/or damage to the product will result if operated on inadequate or excessive power.

CONNECT TO POWER SOURCE

Consult a qualified electrician for proper installation of receptacle at the power source. This product must be grounded while in use to protect the operator from electrical shock. If you are not sure if your outlet is properly grounded, have it checked by a qualified electrician. Do not cut off the grounding prong or alter the plug in any way and do not use any adapters between the product's power cord and the power source receptacle. Make sure the POWER switch is OFF then connect the power cord to a properly grounded 120V, 60Hz, single phase, 20 Amp power source.

Do not abuse cord. Never use the cord to carry tools or pull the plug from an outlet. Keep cord away from heat, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.

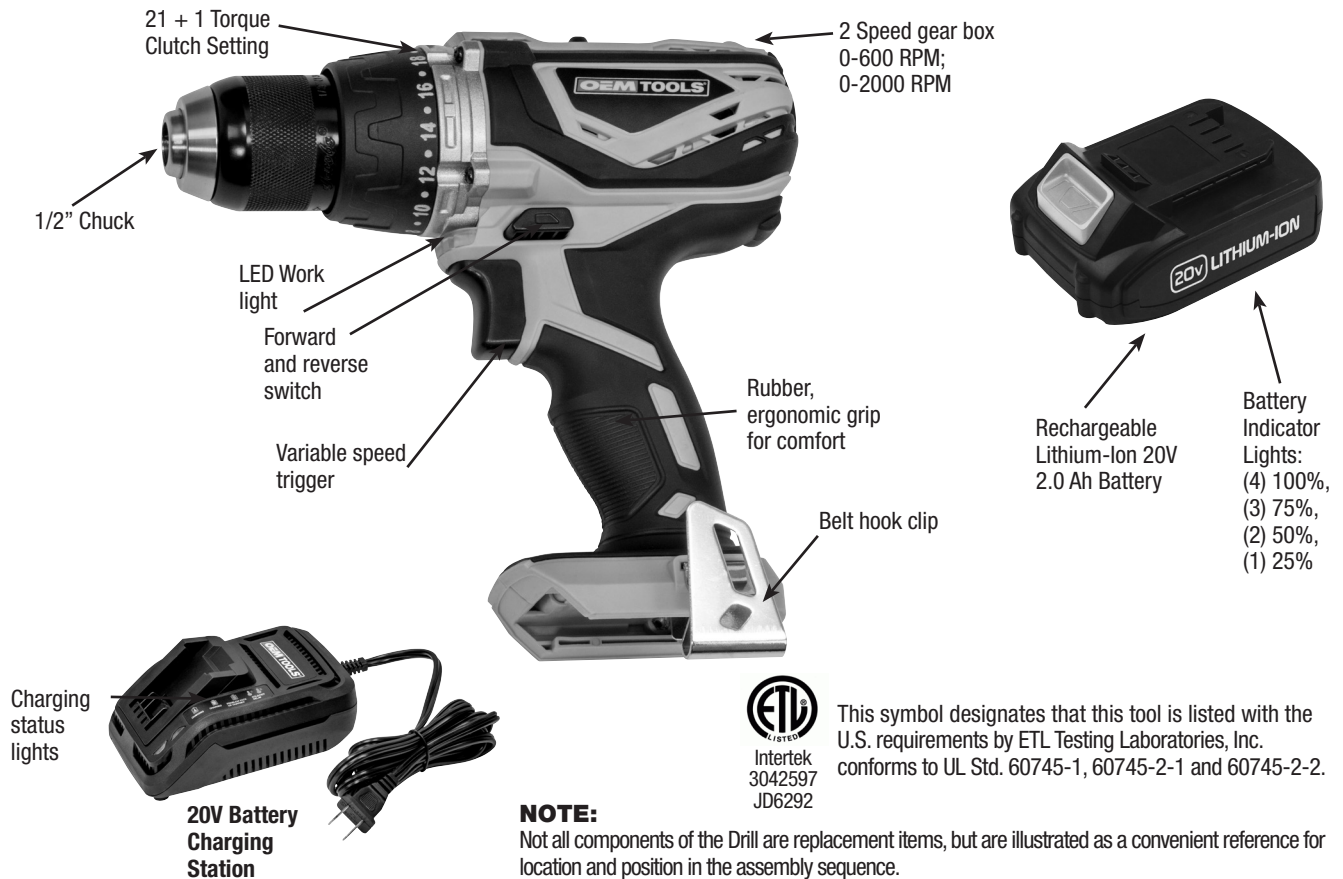
1. Place the charger in a dry location near a 120V/60 Hz electrical outlet.
2. Plug the charger into the electrical outlet.
3. The green LED light will turn on.
4. Turn the battery pack upside down and slide it onto the charger.
5. The green LED light will turn off and the red LED light will begin to flash indicating the battery pack is charging.
6. The red LED light will turn off and the green LED light will turn on when fully charged.
7. Once the battery pack is fully charged, remove the charger plug from the power source and remove the battery pack from the charger.

NOTE: Do not charge batteries when the work area or the battery temperature is at or below 32° F (0° C) or above 113° F (45° C).

Green Light	Red Light	Battery on the Charger	Charging Status
On	Off	No	Charger connected to power supply
Off	Flashing	Yes	Battery being charged
On	Off	Yes	Battery fully charged
Off	On	Yes	Battery defective or bad connection
On	On	Yes	Battery too hot or too cold to be charged



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OEMTOOLS® ONE YEAR WARRANTY

If for up to one year from the date of purchase of this OEMTOOLS product you find any defect in material or workmanship, through normal usage, return it to the place of purchase, or to OEMTOOLS for repair or replacement at our discretion. In order to obtain this service send your tool and proof of purchase, transportation pre-paid, to OEMTOOLS Q.A. Dept, 3580 E. Raines Road #3, Memphis, TN 38118. We will not be responsible for lost or damaged goods during transportation, please insure your package. If our inspection verifies the defect, we will either repair or replace the product at our election, or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

OEMTOOLS does not provide warranty for products labeled other than OEM or OEMTOOLS. OEMTOOLS will not provide any warranty for products subjected to abnormal use. Abnormal use includes, but is not limited to, abuse, accident, alteration, neglect, and unauthorized or unreasonable use or repairs. This warranty does not cover bits, blades, files, batteries, or calibration. We recommend that you maintain your tools and sharpen or replace blades, bits, files, and batteries as necessary. OEMTOOLS reserves the right to make any changes in construction or design at any time without any obligation in incorporating such changes to tools or equipment previously sold.

OEMTOOLS makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of one year from the date of purchase. This warranty does not apply to damage due directly or indirectly to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear or to lack of maintenance.

We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

CONTACT US

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