



# **ATD-10536**

## **8.1 AMP Variable Speed Reciprocating Saw**

### **Owner's Manual**



#### **TECHNICAL SPECIFICATIONS**

**Voltage:** 120V  
**Frequency:** 60Hz  
**Rated Power:** 8.1 Amps  
**No load speed:** 600-2900 SPM

**Manufactured in China**  
**To ATD Tools, Inc. Specifications**

## **IMPORTANT SAFETY INSTRUCTIONS**

### **WARNINGS:**

- To reduce the risk of fire, electric shock, and personal injury, always READ AND FOLLOW all instructions before operating this product.
  - Save this manual. You will need this manual for the safety warnings, precautions, assembly instructions, operating and maintenance procedures, parts list and diagrams.
  - The gear housing, intermediate plate, blade and pivoting guide shoe are likely electric conductors if the blade cuts into live wiring within a wall.
  - Use the ATD-10536 for only the jobs that is intended to do. Use for any application beyond its designed operation could cause property damage, personal injury or even death.
- 
- 1) **KEEP WORK AREA CLEAN** - Cluttered areas and benches invite injuries.
  - 2) **CONSIDER THE WORK ENVIRONMENT** - Do not expose the tool to rain and do not use power tools in damp or wet locations. Keep work area well lit. Do not use power tools where there is risk of fire or explosion.
  - 3) **GUARD AGAINST ELECTRIC SHOCK** - Avoid body contact with earth or ground surface (e. g .pipes, radiators ranges, refrigerators, etc.).
  - 4) **KEEP CHILDREN AWAY** - Do not let onlookers touch the tool or extension cord. All onlookers should be kept away from work area.
  - 5) **STORE IDLE TOOLS** - When not in use, tools should be stored in a dry place, high or locked up and out of the reach of children.
  - 6) **DO NOT FORCE THE TOOL** - It will do the job better and safer at the rate for which it was intended. Any forcing of the tool could result in property damage, personal injury or even death.
  - 7) **USE THE RIGHT TOOL** - Do not force small tools or attachments to do the job of a heavy duty tools. Do not use tools for purposes that they weren't intended for. Doing so could result in property damage, personal injury or even death.
  - 8) **DRESS PROPERLY** - Do not wear loose clothing or jewelry, as they can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Contain long hair to keep it from any moving parts.
  - 9) **USE PROTECTION** - Use safety glasses and hearing protection at all times and a face or dust mask if the cutting operation is dusty.
  - 10) **DO NOT ABUSE THE CORD** - Never carry the tool by the cord or yank it to disconnect it from the electrical socket. Keep the cord away from heat, oil and sharp edges.
  - 11) **SECURE YOUR WORK** - Use clamps or vise to hold your work .It is safer than using your hands and it frees both hands to operate the tool.
  - 12) **DO NOT OVERREACH** - Keep proper footing and balance at all times.
  - 13) **MAINTAIN TOOL WITH CARE** - Keep cutting tools sharp and clean for better and safer performance. Follow instructions for lubrication and changing accessories. Inspect cord periodically and if damaged, have it repaired by a qualified service person. Inspect extension cords periodically and replace, if damaged. Keep handles dry, clean and free from oil and grease.

- 14) **UNPLUG TOOLS** - When not in use, disconnect the tools from power supply (wall outlet) before servicing and when changing accessories such as blades, bits and cutters.
- 15) **REMOVE ADJUSTING KEYS AND WRENCHES** - Form the habit of ensuring that keys and adjusting wrenches are removed from the tool before turning it on.
- 16) **AVOID UNINTENTIONAL STARTING** - Do not carry the plug-in tools with a finger on the switch. Ensure switch is off when plugging the tool in.
- 17) **USE OUTDOOR EXTENSION CORDS** - When tools are used outdoors, use only extension cords intended for outdoor use.
- 18) **STAY ALERT** - Watch what you are doing. Use common sense. Do not operate the tool when you are tired or while under the influence of alcohol or medications.
- 19) **CHECK FOR DAMAGED PARTS** - Before each use, the tool should be checked for damaged parts. Any damage should be carefully checked to determine whether or not it will operate properly and perform its intended function. Check for alignment of moving parts, mounting and any other condition which may affect its operation. Any part that is damaged should be properly repaired or replaced by an qualified service person unless otherwise indicated in this instruction manual. Have defective switches replaced by an authorized service facility. Do not use the tool if the switch does not turn it on or off.
- 20) **ACCESSORIES AND ATTACHMENTS** - The use of any accessory or attachment, other than those recommended in this instruction manual, may present a risk of property damage, personal injury or even death.
- 21) **HAVE YOUR TOOL REPAIRED BY A QUALIFIED SERVICE PERSON** - This electric tool is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts; otherwise it may present a risk of property damage, personal injury or even death.

### **ADDITIONAL SAFETY GUIDELINES**

- When the machine is in operation, keep hands away from the cutting area.
- The blade will not stop immediately when the machine is turned off. Exercise caution.
- Do not place the tool down after use until the saw blade has come to complete stop.
- Always use the correct blade recommended to cut material.
- Keep the power cord well away from the cutting area during use. Always position the cord so that it will not be caught in the workpiece when the saw is in use.
- Do not operate the saw with guide shoe removed.
- Do not attempt to plunge cut metal.
- Some wood contains preservatives which can be toxic. Take extra care to prevent inhalation and skin contact when working with these materials. Request, and follow, any safety information available from your material supplier.
- When cutting angle iron, H-beams, I-beams, channels, etc, start the cut on the surface where the greatest number of teeth will contact the work. To make a pocket cut, drill a starting hole first.
- Always wear earmuffs, safety glasses and face mask while in operation.
- Before connecting the tool to the power supply follow the safety instructions to install the blades. Do not overtighten blade holder set screw, or cracks may occur.

## **OPERATION**

### **TIPS BEFORE YOU START TO WORK**

- The pivoting guide shoe (item#2) is pivoted so that the saw can be raised gradually to position perpendicularly to the work while the saw moving.
- Be sure the material to be cut is rigid. Securely clamp small work pieces in bench vise or with clamps to the work table.
- Place slight pressure on the saw to cut freely, forcing the saw will not make it cut faster.

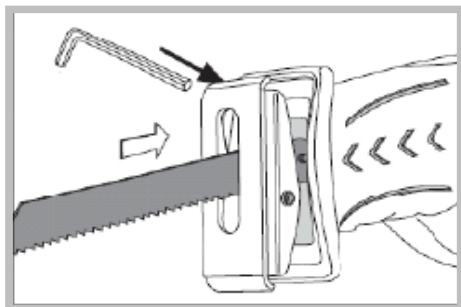
### **STARTING AND STOPPING SAW**

- Before use, make sure that power circuit voltage is the same as shown on the label on the saw. (110-120 VAC – 50-60 Hz)
- Hold the saw firmly. Squeeze or release trigger switch to start or stop motor respectively.

### **VARIABLE SPEED**

- Use the variable speed control to acquire different speed of the saw blade.
- The lower speeds are recommended for most metal cutting, while the higher speeds are recommended for wood.

### **CHANGING THE BLADE**



- Be sure the tool is unplugged.
- Loosen the blade lock screw with the 4mm hexagon key.
- When changing the saw blade, make sure that the blade holder is free of material residue (e.g. wood or metal shavings)
- Insert the saw blade between the stroke rod and the clamping plate.
- Take care that the securing pin of the stroke rod engages in the hole of the saw blade. (Saw blade cannot be pulled out).
- Retighten the blade lock screw.
- Before plugging the saw into the wall outlet, double check to be sure the saw blade is secure.

### **MAINTENANCE AND INSPECTION**

- Blow out all passages periodically with dry compressed air to maintain the tool. Use soft damp cloth to clean. Never use solvents to clean plastic parts. Solvents could possibly dissolve and damage the material
- Regularly inspect all mountings and screws and ensure they are properly tightened. Should any of the screws be loose, tighten them immediately. Failure to do so may result in serious damage, injury or even death.

### **CHANGING THE CARBON BRUSHES**

There are 2 brush caps (item# 44) on top of the unit near the handle, and under the unit near the handle. Simply unscrew the brush caps, carefully pull the old carbon brush, complete with spring, out of the unit and slide the new carbon brush into the unit, being sure to replace the brush caps when you are done. Brushes **MUST** be changed in pairs. Do not overtighten the brush caps.

## **PLUNGE CUTTING WARNINGS:**

- Plunge cutting metal is **PROHIBITED**.
- To reduce the risk of electric shock, check work area for hidden pipes and wires before operating the reciprocating saw on a work piece or work area.
- Blades longer than 6 in. (15.2cm) can whip and should not be used for plunge cutting. Failure to heed this warning can result in serious personal injury.
- Cutting into electrical wiring can cause the blade, the blade holder, and the saw to become electrically live. Do not touch metal parts when cutting into a wall; grasp only the insulated surfaces on the tool. Make sure hidden electrical wiring, water pipes, and mechanical hazards are not in the blade path when cutting into a wall.
- Keep in mind your blade length when cutting into a wall that may have another wall or other surface that you could cut through on the other side. For instance, don't use a 6" blade in a 4" wall space unless you intend to cut through both walls or surfaces.
- Make sure the blade does not touch the workpiece until the motor reaches full speed. Failure to heed this warning can cause you to lose control of the saw and result in serious injury.

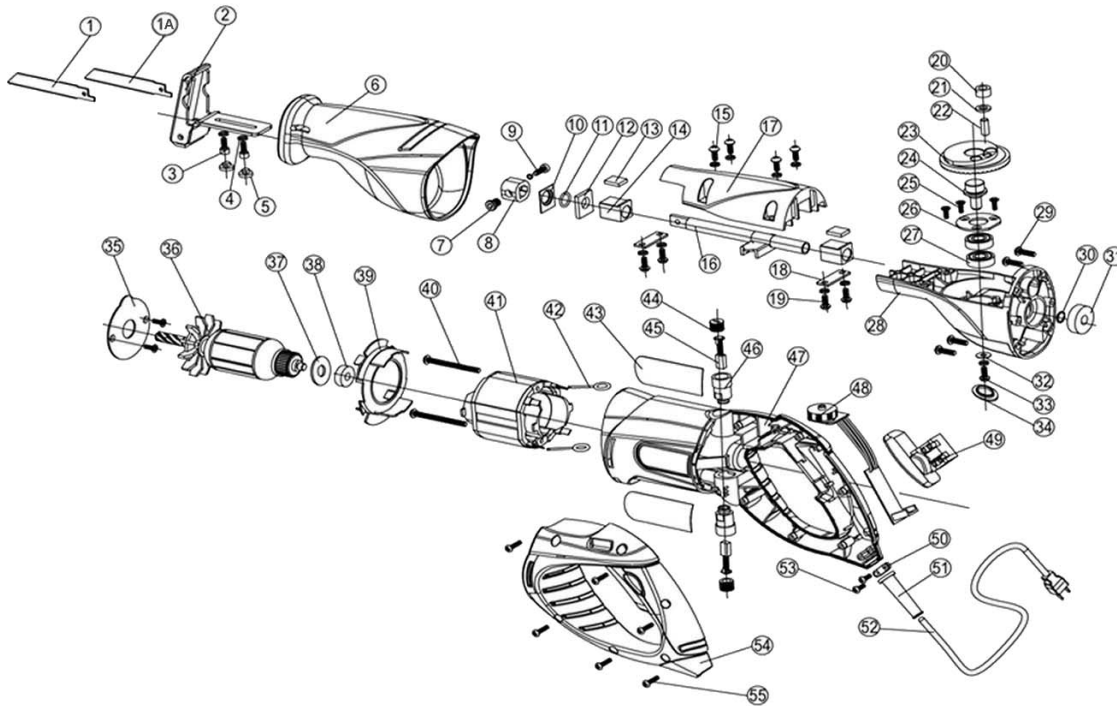
## **PLUNGE CUTTING PROCEEDURES:**

- Secure the workpiece to a work bench or table with a vise or with clamps.
- Make sure the saw blade is clear of any foreign material and that the power cord and extension cord are out of the blade path.
- Hold the saw firmly in front and clearly away from you.
- Mark the line of the cut clearly.
- Choose a convenient starting point inside the cutting area and place the tip of the blade over the point.
- Reset the front edge for the Pivoting Guide Shoe assembly on the workpiece and hold it firmly in position during the cut.
- Depress the trigger switch and allow the saw blade to reach full cutting speed.
- Make sure the blade does not touch the workpiece until the motor reaches full speed. Failure to heed this warning can cause you to lose control of the saw and result in serious injury.
- Tilt the saw downward until the tip of the blade starts cutting the workpiece.
- Allow the saw blade to penetrate the workpiece.
- Tilt the saw until the blade is perpendicular to the workpiece.

## **METAL CUTTING**

You can cut metal with your saw, such as sheet steel, pipe, steel rods, aluminum, brass, and copper. Observe the following rules when cutting metal.

- Be careful not to twist or bend the saw blade.
- Do not force the tool.
- Use cutting oil when cutting soft metal and steel.
- Never use gasoline since normal sparking of the motor could ignite fumes.
- Clamp the workpiece firmly and cut close to the clamping point to eliminate any vibration of the work. When cutting conduit pipe or angle iron, clamp the workpiece in a vise if possible and cut close to the vise. To cut thin sheet material, "sandwich" the material between hardboard or plywood and clamp the layers to eliminate vibration and material tearing.
- Always keep firm pressure on the base to hold it securely against the workpiece.



ORDERING PART#	ITEM#	PART DESCRIPTION
PRT10536-01	1	SAW BLADE (WOOD)
PRT10536-01A	1A	SAW BLADE (METAL)
PRT10536-02	2	SHOE
PRT10536-03	3	SCREW M5X12
PRT10536-04	4	SPRING WASHER 5
PRT10536-05	5	RUBBER PLUG
PRT10536-06	6	GEAR BOX COVER
PRT10536-07	7	SCREW M8X9
PRT10536-08	8	BLADE HOLDER
PRT10536-09	9	SCREW M5X16
PRT10536-10	10	SEAL RING
PRT10536-11	11	O-RING
PRT10536-12	12	SQUARE FELT
PRT10536-13	13	FELT
PRT10536-14	14	SLIDE BEARING
PRT10536-15	15	SCREW M5X20
PRT10536-16	16	RECIPROCATING BAR
PRT10536-17	17	GEAR BOX COVER
PRT10536-18	18	SLIDE BLOCK CLAMP
PRT10536-19	19	SCREW M5X12
PRT10536-20	20	NEEDLE BEARING
PRT10536-21	21	WASHER
PRT10536-22-24	22*	GEAR AND SHAFT ASSY.
PRT10536-22-24	23*	GEAR AND SHAFT ASSY.
PRT10536-22-24	24*	GEAR AND SHAFT ASSY.
PRT10536-25	25	SCREW M4X8
PRT10536-26	26	BEARING COVER
PRT10536-27	27	BEARING 6000-2Z

ORDERING PART#	ITEM#	PART DESCRIPTION
PRT10536-28	28	GEAR BOX
PRT10536-29	29	SCREW ST4.8X18
PRT10536-30	30	CIRCLIP 10
PRT10536-31	31	BEARING 6200-2Z
PRT10536-32	32	FLAT WASHER
PRT10536-33	33	SCREW M5X14
PRT10536-34	34	SCREW COVER
PRT10536-35	35	BEARING COVER
PRT10536-36	36	ARMATURE
PRT10536-37	37	SPACING RING
PRT10536-38	38	BEARING 608
PRT10536-39	39	WIND BAFFLE
PRT10536-40	40	SCREW ST4.2X65
PRT10536-41-42	41*	FIELD ASSEMBLY
PRT10536-41-42	42*	FIELD ASSEMBLY
PRT10536-43	43	NAME PLATE
PRT10536-44	44	BRUSH CAPS, PAIR
PRT10536-45	45	CARBON BRUSHES, PAIR
PRT10536-46	46	BRUSH HOLDERS, PAIR
PRT10536-47	47	HOUSING
PRT10536-48	48	SPEED SWITCH
PRT10536-49	49	POWER SWITCH
PRT10536-50	50	CABLE CLAMP
PRT10536-51	51	CABLE SHEATH
PRT10536-52	52	POWER CORD
PRT10536-53	53	SCREW ST4.2X8
PRT10536-54	54	HANDLE COVER
PRT10536-55	55	SCREW ST4.2X16