	1. Product composition & specification		3. Unpacking and assembly
PRODUCT'S INSTRUCTION MANUAL		Basic composition Crack Cutter & Extension Adapter Star Wrench 	1Image: Second systemMasher & PulleyImage: Second systemRemove the washer and pulley from angle grinder first.Image: Second systemCheck your spindle size of angle grinder and install Adapter.Image: Second systemAttach cutter to adapter and tighten it. Must use Handle.
	Note : text, diagrams and data are correct at time of print products, technical specifications are sub TECHNICAL SPECIFICATIONS : Max. Blade diameter : 12.20 mm		4. Maintenance
Model Number L Mini Crack Cutter (MP21-16-M) TABLE OF CONTENTS	Max. Gouge depth: 100 mm (without extension) Max. RPM: 15,000 rpm	Weight: 0.05 Kg (without angle grinder) Overall Length: 100 mm (without extension)	If each part attached bolt is When the cutter blade vears out, Please use the tighten. replacement.
	Power: 630 ~ 750 Watt	Working width: 12.20 mm	
1. Product composition & specification 2. Manufacture information		Blade width: 6 mm	4-1. How to replace the Carbide
3. Unpacking and assembly	Model: MP21-16-M	Number of teeth: 2 EA	Replacing and setting blade and carbide teeth
4 Meintenance ORIGNAL INSTRUCTION PROVIDED	2. Manufacture information		For an optimum operation of tools, the blade and carbide teeth must be properly set up. Also, when the blade is worn out, use the star wrench provided with the produce
5. Safety instruction	- Manufacturer : Manpatools Corporation		to replace the carbide teeth. Replacement instructions are as follows.
6. Safety precautions PLEASE READ ALL MANUAL FOR SAFETY	- Country of manufacture : Made in Republ	ic of korea	- First, clean off any debris from the surface where carbide teeth will be placed.
7. Kick back BEFORE USING THIS TOOL	- Address : 700-20 Manse-ro, Yangseong-myeon, Anseong, Gyeonggi-do, Korea		- Place the carbide teeth on the blade, and use star wrench to fasten the bolt tightly.
- Telephone : (Tel) +82-31-676-9212 (Phone) +82-10-8777-5735		- Set up all carbide teethes in the same way.	
www.manpatools.com	- Website : www.manpatools.com		
5. Safety instruction	 Never use power tools in wet or damp conditions. Never use a tool that is damaged or malfunctioning in any way. 		 Be careful not to get the body in contact with the blade or belt. It may result in severe injury. Do not leave the tool unattended while rotating.
Use of tools is recommended by someone at least 18 years old or older with the experience of using grinder in woodcraft or woodcarving industry	 Make sure cutters are clean, sharp and securely in place. Never use bent, broken, or warped cutters. 		- Do not become careless once you become familiar with the tool. Carelessness may lead to another accident.
Also, always follow the safety precautions during use. If you never used a grinder, we recommend that you receive instructions and safety training from someone that can handle grinder proficiently.	► Never rush what you are doing. Always pay close attention. Don't let anything distract you. Think ahead.		 After work, always clean the tool and the work area. d. Safety matters about tools. Please maintain the rotation speed of blade at above 11000RPM. If the rotation speed of blade is
a. Before supplying power, ensure that the on/off switch is in the OFF position and check if bolts in each part are securely fixed, and the belt safety cover and handles are installed properly. Hold the handle on the body with the left hand, hold the grinder with the right hand, and supply power while holding it safely with both hands.	 When using hand-held power tools, always keep a firm grip with both hands. Losing control creates a hazardous situation. Always use the right tool for the right job. No substitutions allowed. 		lowered, the surface of wood may not be smooth, and may bear too much load on blade and carbide teeth. - Do not remove any safety devices or parts installed on tools, but use them together. It can prevent
b. When the power is turned on, the power is delivered from drive gear to vertical gear where the blade is, through the timing belt. After it starts to operate, check if timing belt delivers power properly, and begin carving by getting the blade close to the surface of wood.	 Always unplug, clean and store the tool in a safe, dry place. Make sure that the cutter blade or the belt is not in direct contact with the user. Contact may lead to serious injury. 		 any sudden accidents and protect your body. In case of any abnormality while using the product, stop immediately and inspect the product. If repair is needed, inquire qualified personnel or designated repair shops. If consumables are worn out or parts are broken, please use
c. Check for any debris likes pebbles or sand on wood and remove during work. Also, be careful with kickback.	▶ Please be aware that the cutter can generate rebound force (quick back) due to its rotation direction.		authentic parts.
With Kickback. d. During operation, if the tool is forcibly used, the teeth of the timing belt may be worn or cut off. Work safely by giving enough time for the tool to carve out the wood.	6. Safety precautions		7. Kick Back
 When done with work or pausing, turn the power off and hold the grinder with both hands until the residual rotation finishes. Put it down when it completely stops. 	Please read and understand all safety precautions, instructions, explanations and specifications provided with this product thoroughly for safe work and accident prevention. a. Work area safety user loses control of the tool due to kickback, and it jumps up or cuts any		It is the phenomenon where the blade moves forcefully to the direction that the user does not want as the part of blade that rotates in reverse direction touches the object. The reverse direction of the blade near the direction of the set of the direction when the part of the context the direction of the direction of the dir
f. Always unplug when not working.	- Always keep the light in work area bright.		rotating blade as seen in Image 1 is called kickback zone. When this part gets in contact with the object, the undesired part. An instant kickback may damage the object, blade and the belt, or even
WARNING : Read the product guide provided with the product, and follow all precautions. Please do not discard the produce guide but keep it.	 Always keep the work area well ventilated. Do not work in the environment with explosion hazard. Restrict access of people near the work area. 		result in an accident in the worst scenario. Kickback occurs as a result of misuse of electric tool and inaccurate operation procedure, and understanding proper precautions given below can avoid accidents in advance.
Always wear safety goggles or safety glasses with side shields. Use a dust mask for dusty operations, and wear hearing protection if you'll be using the tool for an extended period of time.	 b. Electrical appliance safety When using electric tools, clean off any debris in the socket, and check for any damages on the 		
Dress right, and reamber that looks don't count. No loose-fitting clothing, no neckties, no jewelry, no dangling objects of any kind. Long hair must be tied back out of your way. Non-slip footwear is recommended.	wire. If any damage is discovered, replace the wire and use. - Do not modify electric tool, and work safety according to the instructions provided by the electric tool.		
Never use power tools if you are tired, sick, distracted, or under the influence of drugs or alcohol.	 Do not expose electric tool to rain or wet environment, and do not use if exposed. It may result in accident due to electric shock. 		
► Make sure your work area is neat and clean and free of any debris that might get in your way or be ignited	Always unplug when inspecting or not using electric	c tool.	
 Before you work, make sure appropriate, secure work with a clamp or vise to keep it from slipping. 	 c. Personal safety When working, wear all safety equipment such as mask, goggles, gloves and safety clothing. 		
▶Before you plug in any power tool, make sure the power switch is off.	Safety equipment can protect the body and reduce damage from any possible accident.		
▶ Be sure all appropriate guards are in place and working.	 When working, fasten the woodwork. securely so it doesn't shake or fall. When inspecting or transporting the tool, always unplug. 		Image 1. Image 2. Image 3. Image 4. Kickback zone Prevent kickback Use the first work work safely by
 Always turn off and unplug the tool before you make any adjustments or change accessories. Never use any accessory except those specifically supplied or recommended by the manufacturer. 	- Always use the tool carefully and safely at the best	t condition. Stop operation if you feel tired or	Do not use it vertically. by holding safety at angle of 15 to using the plate as
Never use any accessory except those specifically supplied or recommended by the manufacturor.	under the influence of alcohol or drug. Resume afte	r getting enough rest.	handle 30° a guide