

## Multi-Tip User & Safety Notes (Read and Fully Understand Before Use)

Congratulations for ordering your new multi-Tip wheel. This system should give you hours of trouble free and economical use if used and maintained properly. Safety is paramount so please read all notes and take care at all times. A copy of these notes is available free of charge at your request. They are also available on our web site - [www.multi-tip.com](http://www.multi-tip.com). These safety instructions only address the basic safe use. It would be impossible to describe all possible risk situations that could arise when using the machine. You can however prevent accidents by always using common sense. If you are not comfortable with the operation or are unsure about the safety risks you should not use this system.

### Fitting A New Wheel

Be sure that you have the correct wheel for the machine. Fit in accordance with the machines user manual. Check all bolts and replace if worn.

### Fitting Teeth To A New Wheel

Always load the entire wheel with component and half tighten. Then work your way around the wheel tightening to 55Nm. After running for 5 minutes, stop and re-tighten. Check regularly.

### Changing Teeth (fig 1)

Remove bolt and tap behind the tooth with a small hammer. A slide-hammer is available to make this task a little easier. Safety goggles should be used. Avoid hitting the carbide tips.

You will notice that there are leading teeth that are furthest away from the centre of the wheel. These do most of the cutting and so will need changing more regularly to improve performance. Dull teeth can be reused in the non-leading positions.

Fig 2 - Check the condition of the slot, threaded insert, bolt and keeper block. The bolt can be reused up to four times provided that it isn't damaged. Only use components provided by Multi-Tip. Replace any other damaged or worn parts. Clean slot and components before reassemble.  
Fig 3 - Knock into slot and tighten to 55Nm. Check regularly.

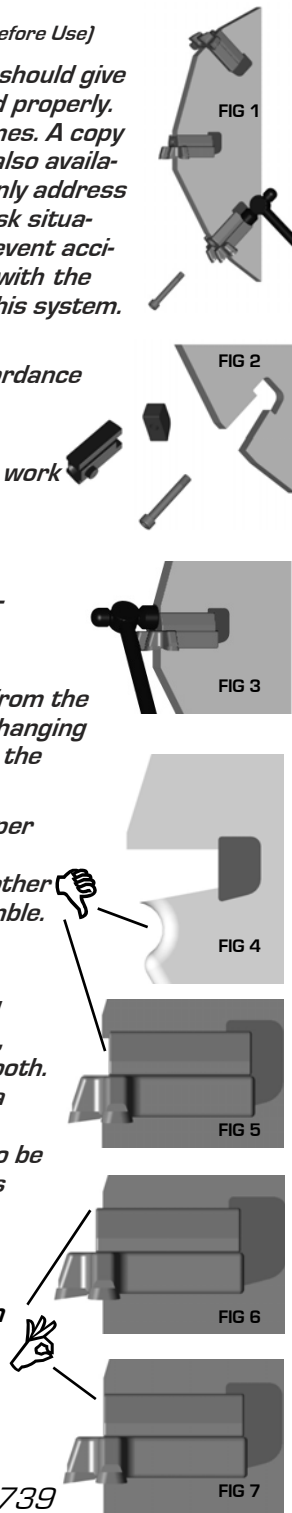
### Damaged Or Worn Wheel

If the wheel wears out it should be changed. Failure to change could result in the components being ejected from the wheel whilst in use, Fig 4 shows a wheel that has incurred severe wear in front of the tooth. This wheel should be replaced. Alternatively it could be repaired by a competent engineer. Contact Multi-Tip for more information.  
Fig 5 shows a different type of wear. The components are allowed to be pulled into the slot too far and thus can't be tightened properly. This wheel should also be replaced. Alternatively, oversize keeper blocks could be fitted. Contact Multi-Tip for more information.  
Fig 6 and Fig 7 are normal.

**TIP** - Change leading teeth regularly and reuse blunt leaders in non-leading positions.

**Caution** - Sharpening of tungsten carbide can be extremely bad for your health if particles are breathed in.

For More Information Call Multi-Tip on: +44 (0) 118 940 1739



All notes must be fully read and understood by all operators of machinery using Multi-Tip

Wear personal protective clothing, helmet and mask. Dust can cause serious health problems. Wear a mask. Refer to safety practices in the machines user manual. Multi-Tip teeth should only be fitted to wheels manufactured by Multi-Tip

Multi-Tip wheels should only be fitted to machines that they are designed to fit.

Bolts and nuts should be replaced regularly. Only Multi-Tip supplied bolts and nuts should be used. Change teeth in opposite pairs to maintain balance. Teeth should be replaced once blunt or worn out. Debris will be ejected from stump. To protect people and property, supplementary screening should be used. With exception to the operator all people and animals should be kept away from the working machine. Only wood and soil to be ground. Harder material will cause excessive damage. Concrete, rocks metal object etc. should be removed before commencing.

Wire or rope should be well away from area. Keep away from all services, particularly electricity. Ensure the wheel turns freely without fouling before starting the machine. Check all bolts are tight. Machinery must be switched off and immobilized before attempting to change teeth. Teeth are sharp and can cause damage even if the machine is switched off.

Wear safety goggles and gloves when changing teeth. Multi-Tip will not take responsibility for any damages incurred by using this system.

Loose stumps or roots should be removed another way. No responsibility will be taken for machinery breakdown caused by fitting the MultiTip system. Fitting of the wheel must be undertaken by competent persons in accordance with the workshop manual. All machinery guards should be fitted and intact. Never use this system without all components in place. Teeth must be held tight in the slots of the wheel.

Only use in daylight or well lit areas. Failure to change a worn wheel could result in breaking of bolts and ejection of teeth, which could cause damage to property serious injury or death. Never stand uphill or downhill of the machine. As it is impossible for Multi-Tip to know the conditions in which the machinery is working, there is no warranty on either the teeth or the wheel.

All safety and emergency controls must be in use. Never approach the wheel until it has completely stopped.

### Disclaimer

The contents of this document are for information only and cannot be considered as giving full information for all circumstances in which Multi-Tip equipment will be fitted and operated. MultiTip will not accept any liability for injury or damages caused by misuse of the product, be it intentional or not. Tree stump grinders and the nature of the work have the potential of being very dangerous if safety is not taken seriously.

TAKE CARE AT ALL TIMES

### Risk Assessment.

Prior to using this equipment it is recommended that a full and thorough risk assessment is undertaken. It is a legal requirement under British Health and Safety Law but it will also allow you to identify the safest way to operate this type of equipment.

However, the risk assessment provisions of the Management Regulations are rather special. They require company's and self-employed people to assess the risks created by their undertaking so as to identify the measures they will need to have in place to comply with their duties under health and safety law.

As such, the assessment provisions of the Management Regulations are superimposed over all other workplace health and safety legislation including the general duties in the Health and Safety at Work Act.

### Who has to assess the risks?

In all cases companies and self-employed people are responsible for assessing the risks and seeing that it is adequately done. A company doesn't have to carry out assessments necessarily themselves. A company can assess the risks and record the significant findings if they are confident they have employees who possess the capability, but if not, they must "get help from a competent source".

### Whose risks should be assessed?

The Management Regulations require a company to assess risks to the health and safety of anyone that may be affected by their company's activities. The management of the company will have to check whether the other regulations require their company to do certain things for all or some of the categories listed above. Under the Management Regulations a company must also make sure that members of the public are not harmed by the companies activities.

### What risks should be assessed?

The Management Regulations in effect require a company to examine what in their work could cause harm to people so that the management can weigh up whether they have taken enough precautions or should do more to meet what the law says a company must do. However, the risk assessment provisions in the other regulations covering specific hazards often tell a company in more detail what they need to examine.

The risk assessment provisions in all these regulations say that a company's assessment of risks must be either adequate or 'suitable and sufficient'.

### When to assess?

In practice a company has to assess the risks in their workplace before they begin any new work.

**Remember!!!  
Safety Is Paramount**