

# HUDY®



## HUDY EXCELLENT TIRE TRUER #10 2003 FULL OPTION

Congratulations on your purchase of the world's best selling masterpiece tire truer designed by HUDY. This is a fully automatic high-end tire truer for foam tires with diameters ranging from 35mm to 85mm. Wheel adapters for all popular 1/3, 1/10, 1/12 scale brands are available. Main features include: easily adjustable truing diameter & truing angle (0-2 degrees), truing speed regulation, auto shut off, tire width adjustment, connection cable for 12V power source, and transparent plexiglass protective cover.

- Please read these instructions before using
- Always use protective glasses
- DO NOT touch rotating parts when in use

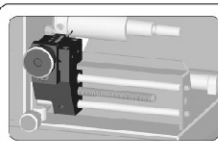
**NOTE:** Soft tires tend to expand when rotating. The truer cuts at the set diameter; however, when the tire stops spinning the foam shrinks and may cause the tire to be a smaller diameter than what you desired. Therefore, when grinding soft compound tires we recommend that you adjust the grinding diameter to a slightly bigger diameter than the one you effectively desire.

### Included:

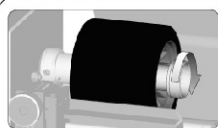
- #10 2067 Carbide cutting tool
- #10 2095 Aluminium case for tire truer
- #10 2064 Tool holder 40 - 80mm (for truing 1/3, 1/10, 1/12 sizes)

### IMPORTANT - WHEN GRINDING ALWAYS KEEP THE COVER CLOSED!

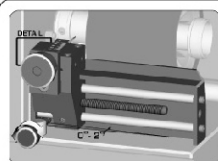
Connect the tire truer to a 12VDC power source. If you are using a DC power supply, make sure it can supply at least 25A. If you plan to use the slowest tool movement speed, connect the tire truer to a DC power supply that can supply at least 14-16V.



- (1.1)** Make sure that the tool support is in the starting position on the left side of the tire truer.



- (2.1)** Make sure you are using the correct wheel adapter for your type of wheel. Put the wheel on the wheel adapter, and secure it by tightening the collar. For available wheel adapters, refer to the attached leaflet with available parts list.



- (3.1)** Adjust the truing angle with the serial adjustment wheel. The amount of camber depends on the car setup and track quality. A typical setup is 0° on the front, and 1-2° on the rear.



- (4.1)** Adjust the desired grinding diameter with the control wheel.

To set a smaller tire diameter, turn the control wheel clockwise (CW).

To set a larger tire diameter, turn the control wheel counter-clockwise (CCW). If you are planning to grind more than 2mm off the tire diameter, we recommend that you do not do it all at once, but rather grind the tire in 2 or more steps.

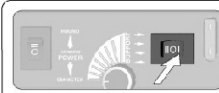
Connect the tire truer to a 12V power source. If you are using a DC power supply, make sure it can supply at least 25A. If you plan to use the slowest tool movement speed, connect the tire truer to a DC power supply that can supply 14-16V.



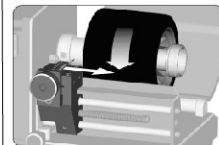
**NOTE:** Connection to a 12V power source will not allow the truer to operate at its slowest tool movement speed. If you want to use the slowest speed, connect to a 14-16V power source.

### (5.1) DIAMETER grinding:

- (5.1.1)** Move the left side "POWER" switch to the bottom "AUTOMATIC" position.



- (5.2.1)** Move the right side "SUPPORT" switch to the right position.



The truer will begin its automatic grinding, first moving the cutting tool support across the tire to the right, then across the tire to the left.



When the support returns to its leftmost starting position, the truer will shut down.



- (6.1)** You can set the opening speed of the support with the cutting speed adjusting knob, as if the truer does not overheat when trying to perform heavy or wide cuts, increase the opening speed (turn the knob CW) when grinding times up to 35 SH. Reduce the opening speed (turn the knob CCW) when grinding times over 35 SH.

**NOTE:** Connection to a 12V power source will not allow the truer to operate at its slowest tool movement speed. If you want to use the slowest speed, connect to a 14-16V power source.



### (7.1) RADIUS grinding:

- (7.1.1)** Move the left side "POWER" switch to the top "ROUND" position. The rounded wheel will rotate clockwise opposite direction from grinding to keep you safe while you grind the corners of the tire.



- (7.2)** Open the protective cover. Use a file or emery board to round the tire's corners and smoothen the finish.



- (7.3.1)** After rounding the corners of the tire, move the left side "POWER" switch to the middle "null" position.

### TIRE WIDTH CUTTING ADJUSTMENT

The new adjustable wheel enables you to vary easily adjust the width of the cutting area on the tire, so you do not have to wait for the support to travel to the end and return. This makes the whole cutting operation much quicker and more flexible.

When the adjustment wheel is fully to the left side, the operating area is the entire distance the support travels. When the adjustment wheel is moved to the right, the operating area decreases. To adjust the tire cutting width:



- (1.1)** Loosen the adjustment wheel by turning it CCW.



- (2.1)** Move the adjustment wheel to the desired position.



- (3.1)** Tighten the adjustment wheel by turning it CW.

### IMPORTANT!

ONLY adjust the tire width cutting adjustment when the tire truer is not operating.

### TROUBLESHOOTING

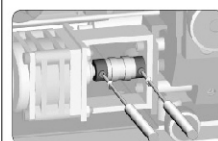
The truer is protected against overloading and damage during operation by two fuses:

- #10 2266 - main motor fuse - 30 A
- #10 2265 - gearbox motor fuse - 3 A



- (1.1)** Main motor not turning.
- Check connection to power source.
  - Check voltage at power source.
  - Check main motor fuse (30 A).

- Check power cable connections.
- Check if an overly-large tire is jamming any other part of the truer.
- Disconnect the truer and dismantle the left aluminium cover. Check the electrical connections.



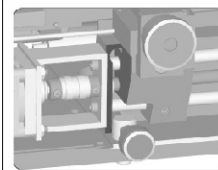
- (2.1)** Longitudinal support not moving.
- Check gearbox motor fuse (3 A).
  - Disconnect the truer and dismantle the left aluminium cover. Check electrical connections.
  - Check the leading bars.
  - Check for excessive clutch backlash between the gearbox and the M6 motor screw.
  - Clean the motion screw and the threads in the support.
  - Check that the motion screw turns easily.

- If longitudinal support stops moving when set to slowest movement speed, connect the tire truer to a power supply that can provide 14-16V.



- (3.1)** Tire not ground to set diameter.
- Measure the diameter of the ground tire.
  - Loosen the two screws on the upper measuring plate. Shift the plate to align with the value that is the diameter of the measured tire.

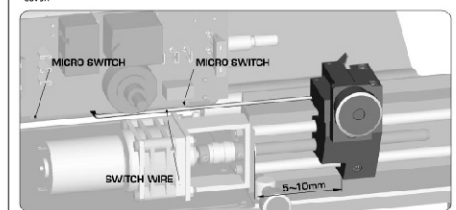
### IMPORTANT WARNINGS



- (1.1)** The support must stop 2-3mm from the body of the longitudinal support on the left, and also on the right. Make sure that this gap is maintained so that no ground rubber blocks the support operation.

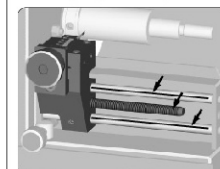
### IMPORTANT WARNINGS

- (2.1)** Before you open the left aluminium cover, make sure that the support is in the middle of its travel so that you do not crush the electronics with the switch wire. When you replace the slave motor cover, the switch wire must be placed between the two micro switches. The electronic circuit board set must be correctly inserted in the grooves of the motor holder and the left side cover.

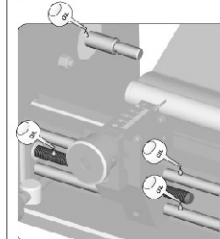


### MAINTENANCE

- (1.1)** After grinding, remove the ground rubber from the collection tray.

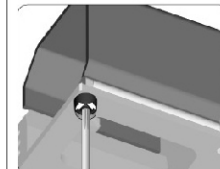


- (2.1)** Clean ground rubber from the truer using a paintbrush or compressed air.

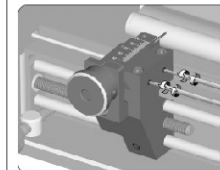


- (3.1) VERY IMPORTANT:** The leading bars and the M6 motion screw (indicated) must always be kept clean!

- (4.1)** All moving parts must move easily without binding.



- (5.1)** To adjust the stiffness of movement of the plexiglass protective cover, tighten or loosen the M4 cover holding screw.



- (7.1)** To adjust the freedom of movement of the tool, tighten or loosen the tool block screws.

If you follow the above instructions about operation and maintenance, HUDY guarantees high-quality, high-stability tire truing as well as a long life span for this great tool.

We hope that you will be satisfied with the performance and quality of this equipment. If you have any questions or advice about how to improve this product, please do not hesitate to contact us.

**Thank you for choosing HUDY products!**