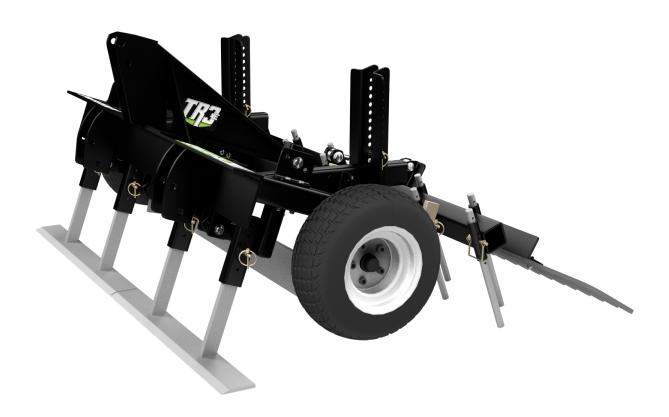


Owner's Manual

TR3-E Series Models

Property | Equine | Trevor Brazile Editions (6FT/7FT/8FT)



NOTE: This Owner's Manual covers several models. Features may vary by model. Not all features in this manual are applicable to all models and the model depicted may differ from yours.

For Your Records

Located on the front left corner of the frame is an ID plate showing the serial number. Record your machine's information and serial number in the space provided below. ABI will use this information to give you prompt, efficient service when you order parts or need product support.

Model and Serial Number

Model Number:		
Serial Number:		
Invoice Number:		
Purchaser's Name: _		

Contact Information

ABI Attachments, Inc 520 S. Byrkit Ave. Mishawaka, IN 46544

Customer Support

Email: abicustomerservice@abiattachments.com

Phone: 877-788-7253

Website: www.abisupport.com

Product Manual Information

NOTE: This operators manual covers several models, Features may vary by model. Not all features in this manual are applicable to all models depicted may differ from yours.

Warranty Information

Please see separate enclosure for warranty details.

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Safety



WARNING! The *SAFETY ALERT SYMBOL* indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control, and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.



CALIFORNIA PROPOSITION 65

WARNING! Cancer and reproductive harm- www.P65Warnings.ca.gov

SAFETY AT ALL TIMES

Careful operation is your best assurance against an accident. All operators, no matter how much experience they may have, should carefully read this manual and other related manuals, or have the manuals read to them, before operating the tow vehicle and this implement.

- Thoroughly read and understand the "Safety Label" section. Read all instructions noted on them.
- Do not operate the equipment while under the influence of drugs or alcohol as they impair the ability to safely and properly operate the equipment.
- The operator should be familiar with all functions of the tow vehicle and attached implement and be able to handle emergencies quickly.
- Make sure all guards and shields appropriate for the operation are in place and secured before operating implement.
- Keep all bystanders away from equipment and work area.
- Start tow vehicle from the driver's seat with hydraulic controls in neutral.
- Operate tow vehicle and controls from the driver's seat only.
- Never dismount from a moving tow vehicle or leave tow vehicle unattended with engine running.
- Do not allow anyone to stand between tow vehicle and implement while backing up to implement.
- Keep hands, feet, and clothing away from powerdriven parts.
- While transporting and operating equipment, watch out for objects overhead and along side such as fences, trees, buildings, wires, etc.
- Do not turn tow vehicle so tight as to cause hitched implement to ride up on the tow vehicle's rear wheel.
- Store implement in an area where children normally do not play. When needed, secure attachment against falling with support blocks.

SAFETY PRECAUTIONS FOR CHILDREN

Tragedy can occur if the operator is not alert to the presence of children. Children generally are attracted to implements and their work.

- Never assume children will remain where you last saw them
- Keep children out of the work area and under the watchful eye of a responsible adult.
- Be alert and shut the implement and tractor down if children enter the work area.
- Never carry children on the tractor or implement. There is not a safe place for them to ride. They may fall off and be run over or interfere with the control of the tow vehicle.
- Never allow children to operate the tow vehicle, even under adult supervision.
- Never allow children to play on the tow vehicle or implement.
- Use extra caution when backing up. Before the tractor starts to move, look down and behind to make sure the area is clear.

SHUTDOWN & STORAGE

- If engaged, disengage power take-off.
- Park on solid, level ground and lower implement to ground or onto support blocks.
- Put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.
- Relieve all hydraulic pressure to auxiliary hydraulic lines
- Wait for all components to stop before leaving operator's seat.
- Use steps, grab-handles and anti-slip surfaces when stepping on and off the tractor.
- Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.

Email: support@abiattachments.com Call Toll Free: 877-788-7253

TIRE SAFETY

- Tire changing can be dangerous and must be performed by trained personnel using the correct tools and equipment.
- Always maintain correct tire pressure. Do not inflate tires above recommended pressures shown in the Operator's Manual.
- When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.
- Securely support the implement when changing a wheel.
- When removing and installing wheels, use wheel handling equipment adequate for the weight involved.
- Make sure wheel bolts have been tightened to the specified torque.
- Some attachments may have foam or sealant inside them and must be disposed of properly.



OPERATION SAFETY

- Stay alert for holes, rocks, and roots in the terrain and other hidden hazards. Keep away from drop-offs.
- Stop implement immediately upon striking an obstruction. Turn engine off, remove key, inspect and repair any damage before resuming operation.
- Never operate tractor and implement under trees with low hanging limbs. Operators can be knocked off the tractor and then run over by implement.

TRANSPORT SAFELY

- Comply with federal, state, and local laws.
- Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with tie downs and chains.
- Sudden braking can cause a towed trailer to swerve and upset. Reduce speed if towed trailer is not equipped with brakes.
- Avoid contact with any overhead utility lines or electrically charged conductors.
- Always drive with load on end of loader arms low to the ground.
- Always drive straight up and down steep inclines with heavy end of a tow vehicle with loader attachment on the "uphill" side.



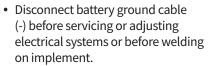
- Engage park brake when stopped on an incline.
- Maximum transport speed for an attached equipment is 20 mph. DO NOT EXCEED. Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrains require a slower speed.
- As a guideline, use the following maximum speed weight ratios for attached equipment:
 - 20 mph when weight of attached equipment is less than or equal to the weight of machine towing the equipment.
 - 10 mph when weight of attached equipment exceeds weight of machine towing equipment but not more than double the weight.
- **IMPORTANT:** Do not tow a load that is more than double the weight of the vehicle towing the load.





PRACTICE SAFE MAINTENANCE

- Understand procedure before doing work. Refer to the Operator's Manual for additional information.
- Work on a level surface in a clean dry area that is well-lit.
- Lower implement to the ground and follow all shutdown procedures before leaving the operator's seat to perform maintenance.
- Do not work under any hydraulic supported equipment. It can settle, suddenly leak down, or be lowered accidentally. If it is necessary to work under the equipment, securely support it with stands or suitable blocking beforehand.
- Use properly grounded electrical outlets and tools.
- Use correct tools and equipment for the job that are in good condition.
- Allow equipment to cool before working on it.



- Inspect all parts. Make certain parts are in good condition & installed properly.
- Replace parts on this implement with genuine ABI Attachments parts only.
- Do not alter this implement in a way which will adversely affect its performance.
- Do not grease or oil implement while it is in operation.
- Remove buildup of grease, oil, or debris.
- Always make sure any material and waste products from the repair and maintenance of the implement are properly collected and disposed
- Remove all tools and unused parts before operation.





PREPARE FOR EMERGENCIES

- Be prepared if a fire starts.
- Keep a first aid kit and fire extinguisher handy.
- Keep emergency numbers for doctor, ambulance, hospital, and fire department near phone.



USE SAFETY LIGHTS AND DEVICES

- Slow moving tractors, skid steers, self-propelled machines, and towed equipment can create a hazard when driven on public roads. They are difficult to see, especially at night. Use the Slow Moving Vehicle sign (SMV) when on public roads.
- Flashing warning lights and turn signals are recommended whenever driving on public roads.

AVOID UNDERGROUND UTILITIES

- Dig Safe, Call 811 (USA).
 - Always contact your local utility companies (electrical, telephone, gas, water, sewer, and others) before digging so that they may mark the location of any underground services in the area.
- Be sure to ask how close you can work to the marks they positioned.





WEAR PERSONAL PROTECTION EQUIPMENT (PPE)

- Wear protective clothing and equipment appropriate for the job such as safety shoes, safety glasses, hard hat, and ear plugs.
- Clothing should fit snug without fringes and pull strings to avoid entanglement with moving parts.
- Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- Operating equipment safely requires the operator's full attention. Avoid wearing headphones while operating equipment.



USE SEAT BELT AND ROPS

- ABI Attachments recommends the use of a CAB or roll-over protective structures (ROPS) and seat belt in almost all tow vehicles. Combination of a CAB or ROPS and seat belt will reduce the risk of serious injury or death if the tow vehicle should be upset.
- If ROPS is in the locked-up position, fasten seat belt snugly and securely to help protect against serious injury or death from falling and machine overturn.



AVOID HIGH PRESSURE FLUIDS HAZARD

- Escaping fluid under pressure can penetrate the skin causing serious injury.
- Before disconnecting hydraulic lines or performing work on the hydraulic system, be sure to release all residual pressure.
- Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- DO NOT DELAY. If an accident occurs, see a doctor familiar with this type of injury immediately. Any fluid injected into the skin or eyes must be treated within a few hours or gangrene may result.

KEEP RIDERS OFF MACHINERY

- Never carry riders on tractor or implement.
- Riders obstruct operator's view and interfere with the control of the tow vehicle.
- Riders can be struck by objects or thrown from the equipment.
 Never use tractor or implement to lift or transport riders.



Safety Labels



AWARNING

10-10976

CRUSHING AND PINCHING HAZARD

- Be extremely careful handling various parts of the machine. They are extremely heavy and hands, fingers, feet and other body parts could be crushed or pinched between tow vehicle and implement.
 Adjust controls from tow vehicle seat only.
- Do not stand between tow vehicle and implement when tow vehicle is in gear.
- Make sure parking brake is engaged before going between tow vehicle and implement.
- Stand clear of machine when in operation or being raised or lowered.



AWARNING

10-10977

FALLING BLADE HAZARD

- Can cause serious injury or death
- Keep hands and feet from under raised blades/rakes/teeth unless it is properly blocked and
- Always put implement in lowest possible position when adjusting or repairing
- Always store implement in lowered position



AWARNING

TO PREVENT SERIOUS INJURY OR DEATH:

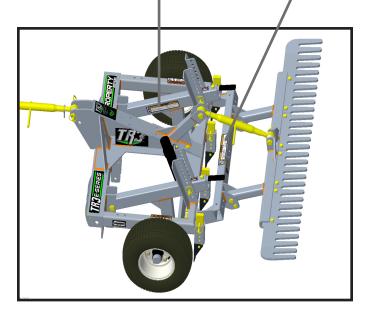
- Avoid unsafe operation and maintenance. Do not operate or work on this machine without reading and understanding the operator's manual. If manual is lost, call 877-788-7253

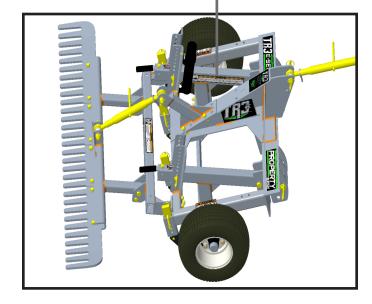
- Lower implement, stop tow vehicle engine, set park brake and remove ignition
 key before servicing, adjusting, repairing or unplugging.
 Safely support and secure implement before adjustments or repairs are made.
 Ob ONTO operate or transport at high speeds.
 Park or block implement so it will not roll when disconnecting from tow vehicle.
 OD NOT operate or transport on steep slopes.

Falling Blade Hazard Warning Label

Read Manual Warning Label

Crushing and Pinching Hazard Warning Label



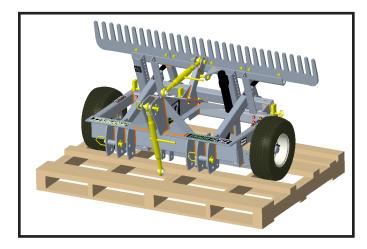


Unpacking Instruction & Setup

Initial Setup Instructions

Tools Needed:

- Gloves
- Safety Glasses
- Tin Snips
- Wire Cutters
- #2 square bit screwdriver



Removing From Shipping Crate

- **1.** Cut metal straps (Use caution when cutting metal straps that they do not spring toward you and cause injury).
- 2. Cut and remove Zip-Ties.
- 3. If unit is wrapped in plastic, remove plastic.
- **4.** Hook up to tractor and remove from skid (see page 11 for Setup Guide).
- **5.** If unit is shipped with outer Rake sections removed from unit, unscrew boards securing Rake sections to skid with #2 square bit screwdriver.

Initial Setup Instructions (Property Edition)

Tools Needed:

- Gloves
- Safety Glasses
- (2) 1-1/8" wrenches (or socket set)
- (2) 3/4" wrenches (or socket set)

1. Remove bolt (1-1/8" Hex) that secures the Toplink to the Rake attachment from Rake attachment mounting bracket. Position Toplink end to line up with Rake attachment brackets holes and slide bolt through brackets and Toplink and tighten nut (see **Figure 1**).

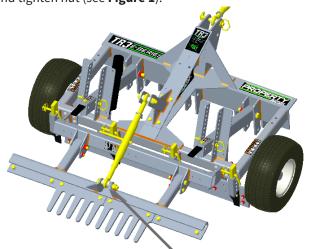


Figure 1.

Attach Toplink to mounting brackets on Finish Rake attachments

2. For Units that are shipped with outer Rake sections removed (as shown in **Figure 1**), remove bolts and nuts (3/4" Hex) from Rake support bracket. Set End Rake sections on Rake support bracket and re-insert bolts and nuts and tighten (see **Figure 2**). Bent ends of Rake Sections are to be angled upwards (see **Figure 3 and 3A**).

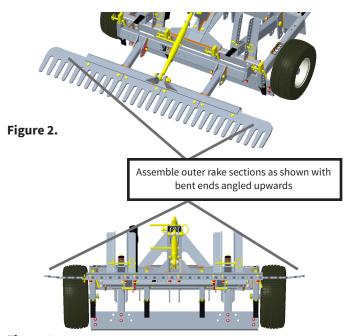


Figure 3.

Setup (cont'd)

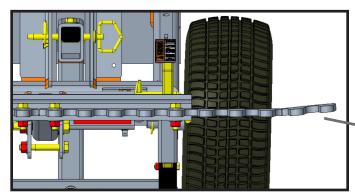


Figure 3A.

NOTE: BY DESIGN, BOTH END RAKES ARE BENT TO ENHANCE FEATHERING THE FINISH.

Initial Setup Instructions (Equine Edition)

1. Use the same initial Setup Instructions as the Property Edition above.

Initial Setup Instructions (Trevor Brazile Edition)

1. For Units that are shipped with outer Rake sections removed (as shown in Figure 4), remove bolts and nuts (3/4" Hex) from Rake support bracket. Set End Rake sections on Rake support bracket and re-insert bolts and nuts and tighten (see Figure 5). Bent ends of Rake Sections are to be angled upwards (see Figure 6).

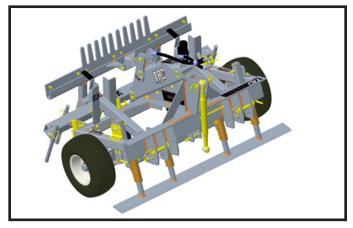


Figure 4.

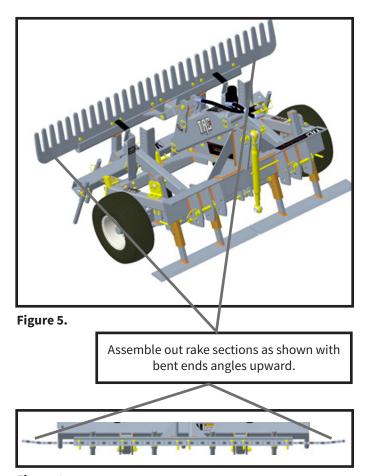


Figure 6.

Operation Guide

CAUTION: Ensure you have at least 9 inches between the rear tire and the end of the lower 3-point arm.

If tool is closer than 9", adjust Toplink to top hole on tractor and or add a "quick attach" hitch. If using a "quick attach" style hitch, use bushings (kit P/N 10-90285) supplied with your machine to prevent the tool from disconnecting unexpectedly.



3 Point Connection

- Ensure Lower arms are stabilized to prevent excessive side movement.
- Slowly back up the tractor to the TR3-E while using 3-point hydraulic control to align hitch holes in lower 3-point arms with hitch pins on the implement.
- Secure lower arms to the implement using the hitch pins provided.
- Attach the tractor to the lower arms. There are two connecting holes on the TR3-E for the bottom arms of the tractor to attach to.

If the TR3-E is connected to the bottom holes, be sure to connect the top link in the bottom hole on the mast as well. Likewise, if the lower arms of the tractor are connected to the TR3 in the top hole, connect the top link using the top hole as well. The top hole is the suggested hole for operating your TR3-E (see **Figure 7**). If the unit is regularly trailered or the tractor has limited lift height, the lower holes will give added clearance (see **Figure 8**).

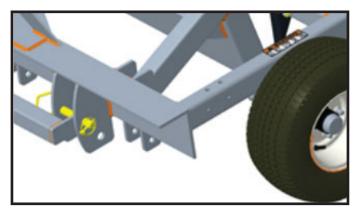


Figure 7.

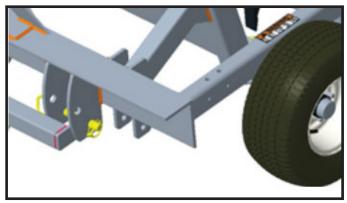


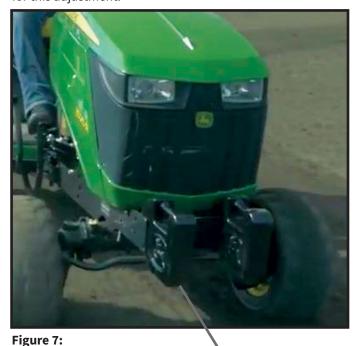
Figure 8.

Each TR3-E is shipped with a complimentary 20 inch top link. Some tractors will require a different top link, such as what came with it from the factory, or that are available for purchase at a local dealer.



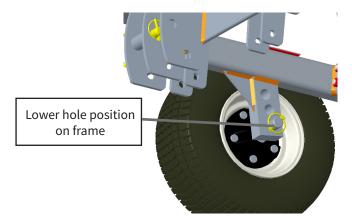
Smaller Tractors:

If using a smaller tractor without a front end loader, front mounted counterweights may be needed to be able to use the ABI tool (see **Figure 9**). This will ensure the front end of the tractor remains securely on the ground without loss of steering control. If a front end loader is installed, this may minimize the need for front mounted counterweights. Additionally, the speed of the 3 point hitch system may need to be adjusted so it runs as slow as possible. This will aid implement control while rough grading and help to ensure no material pile is left behind when lifting the tool at the exit to the work area. Please consult the tractor owner's manual for this adjustment.

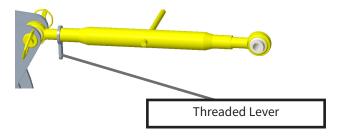


Before setting up the tool, confirm that the wheels are set in the standard operating position (lower hole).

Front mounted counterweights



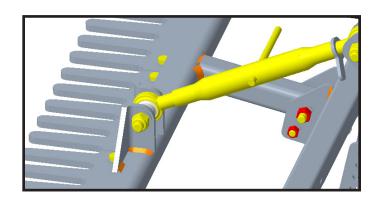
- Next, adjust the top link to level out the tool. A good starting point is to have around 1" of thread showing on both ends of the Toplink then turn the top link to contract or extend the linkage until the upright towers of the leveling bar are vertical (use level as shown below [level not included] to confirm Upright Towers are vertical).
- Once the desired pitch is set, tighten threaded lever on the Top link up tight to the mid section of Top link to prevent Top link from loosen during operation.
- This may need to be reset when the tool is in the ground with the tractor pulling forward and pressure is on the unit.





- Now, adjust the finish rake on the back of the tool. Adjust the how much material is being moved with the rake by turning the Toplink attached to the rake clockwise or counter-clockwise to desired pitch. A good starting point is to have the tips of the rake about ½" below the material surface so the unit always carrying some material on the rake, but not so much to cause material to consistently build up and plug or spill over top of the middle part of the rake or leave furrows off the ends of the rake.
- Then, adjust from there to achieve desired surface finish look. Adjustments may be needed accounting for moisture changes or vegetation growth in the material.

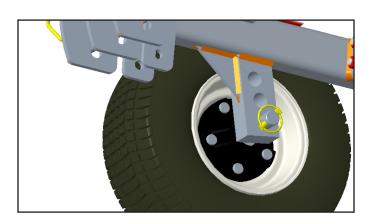
• Then, adjust from there to achieve desired surface finish look. Adjustments may be needed accounting for moisture changes or vegetation growth in the material.



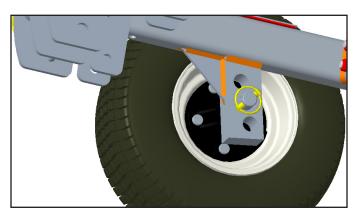
Gage Wheels (tires):

The wheels have three operating positions:

The bottom hole on the axle block is the standard operation position for general arena maintenance.

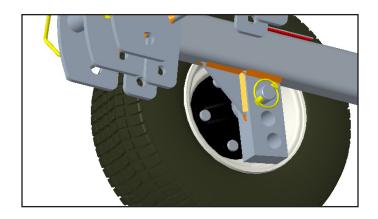


The center hole will lower the frame deeper into the material for more aggressive grading ideal for renovation work and can be used for arena and driveway renovation. When the wheel location is changed, adjustments may be needed to the leveling blade.

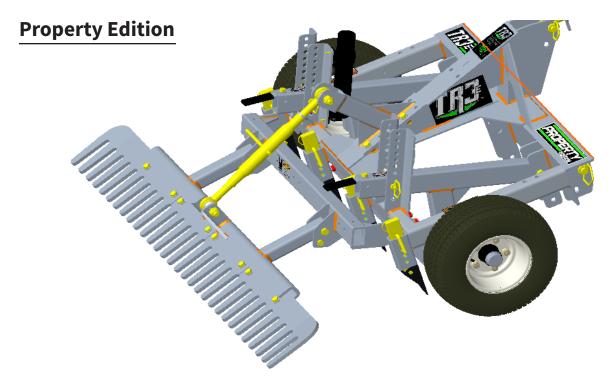


The top hole is for aggressive ripping. This setting will allow the greatest amount of depth. When the wheel location is changed, adjustments may be needed to the leveling blade.

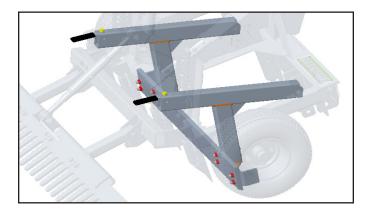
NOTE: The operating positions of the wheels can be pinned higher on one side than the other in addition to adjusting the tractor 3pt hitch for crowning driveways or creating drainage swales to remove water.



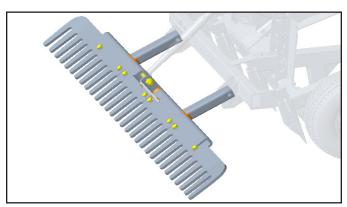
Components



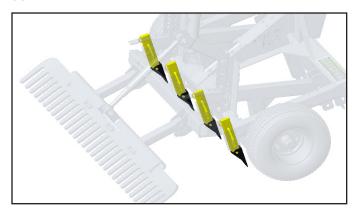
LEVELING BLADE



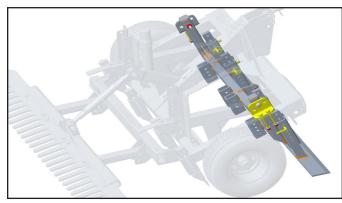
FINISH RAKE



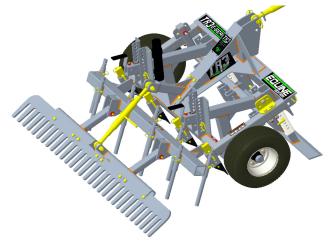
SCARIFIER



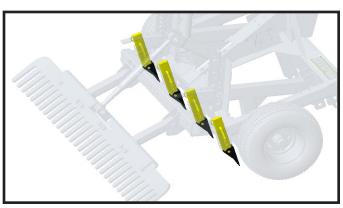
OPTIONAL PROFILE BLADE



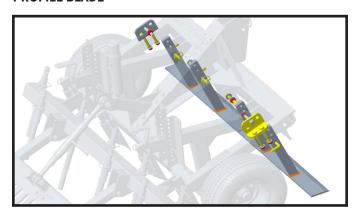
Equine Edition



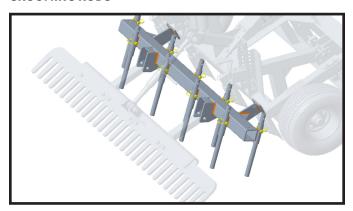
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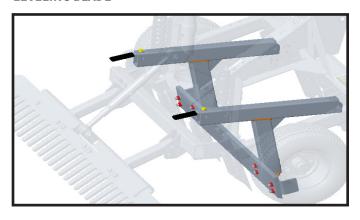
PROFILE BLADE



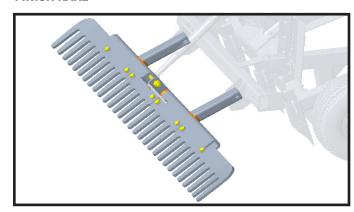
GROOMING RODS



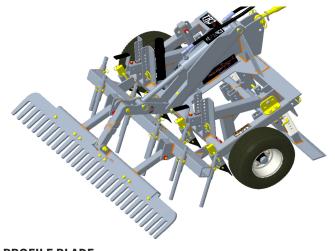
LEVELING BLADE



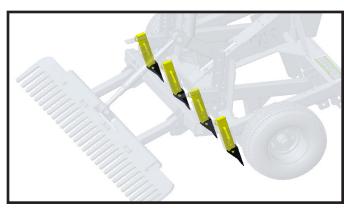
FINISH RAKE



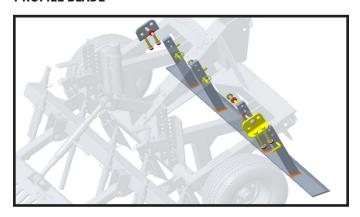
Trevor Brazile Edition



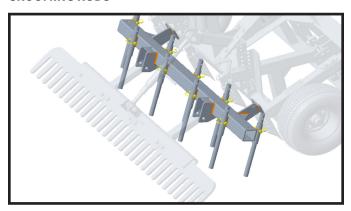
SCARIFIER



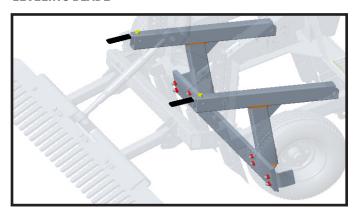
PROFILE BLADE



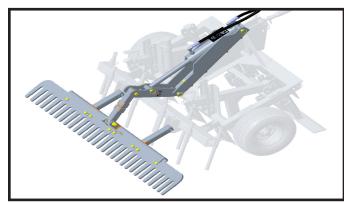
GROOMING RODS



LEVELING BLADE



HYDRAULIC FINISH RAKE



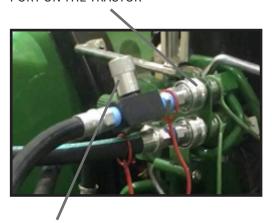
Trevor Brazile Edition Hydraulic Finish Rake

First attach the hydraulic hoses to your tractor. One hose will be equipped with the speed control valve. It is important that the speed control valve is attached to the outward flow port on the tractor. Be sure the valve is open completely to allow the lines and cylinder to fill completely with hydraulic fluid. Once the lines and cylinder have filled, then adjust the valve to the desired speed. Finally, check the tractor

hydraulic fluid to confirm it is still at a safe level. Opening or closing the speed control valve will determine how fast the rake pivots up or down with the hydraulics are engaged. This is critical if you tractor is equipped with a push button hydraulic system. The more closed the speed control valve is, the slower the rake will pivot. Likewise, the more open the speed control valve is, the faster the finish rake will pivot.



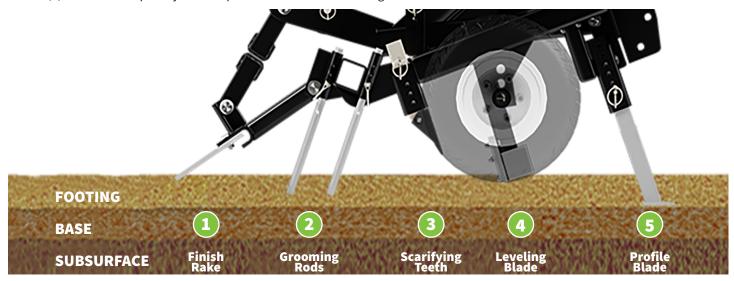
SPEED CONTROL VALVE MUST BE ATTACHED TO THE OUTWARD FLOW PORT ON THE TRACTOR



SPEED CONTROL VALVE -CLOCKWISE TO CLOSE AND COUNTER-CLOCKWISE TO OPEN.

Components (cont'd)

All of the components on the TR3-E are adjustable using the compatible pins. By removing these pins, adjust the components up and down within their respective pockets. The Profile Blade (1), Leveling Blade (2), Scarifiers (3), Leveling Blade (4) and Profile Blades (5) all have multiple adjustment positions for fine tuned usage.



"TIRES WILL SINK INTO LOOSER MATERIALS, ADJUST OTHER COMPONENTS ACCORDINGLY"

Finish Rake/Comb

Breaks up clumps of material and leaves a beautiful signature finish. Finish Rakes are made up of smaller sections to decrease cost when needing to replace a worn/damaged tooth. Instead of having to replace the entire rake, individual sections can be ordered.

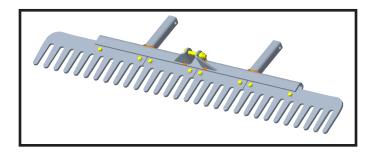
Grooming Rods

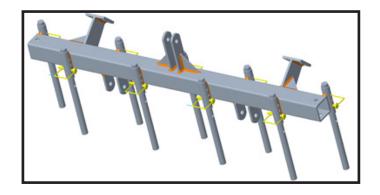
The grooming rods are used on the Equine and Trevor Brazile units and are for daily arena grooming after the original breakup of compaction by the scarifiers. The grooming rods can be adjusted by $\frac{1}{2}$ " increments to a depth of up to 6". As the grooming rods wear, they can be adjusted downward for extended life.

The Grooming rods are a secondary loosening component that follows the leveling blade and adds air into the footing promoting more cushion. Grooming rods also customize footing performance; run the rods above the Profile Blades for disciplines such as Reining and Dressage for a smooth base and slightly below the Profile Blades for barrel racing and Jumping to add texture and grip to the footing.

See pages 21-23 for Grooming Rods setup depth guide.

NOTE: Grooming rods are NOT recommended for gravel work.





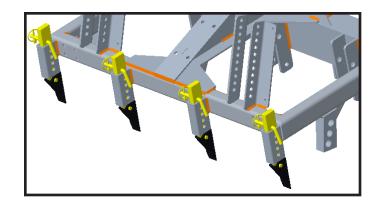
Scarifying Teeth (Ripping Teeth)

The scarifying teeth loosen the ground to eliminate hard spots and easily penetrate compacted arena footing and gravel driveway material or soil. They are primarily used to break up compaction and can be used in conjunction with the leveling blade and the finish rake. During daily arena maintenance, the scarifiers can be pinned up and out of play. Excess wear will be created by using them during daily grooming.

See pages 21-23 for Scarifier Teeth setup depth guide.

Bolt On Scarifier Tips

The TR3-E units have replaceable bolt on tips on the scarifying teeth. This feature not only ensures affordable and easy maintenance of this wear part, but also ensures peak ground penetration no matter the ground condition. If the tips wear to the point that performance is diminished, simply replace them, restoring optimal performance.



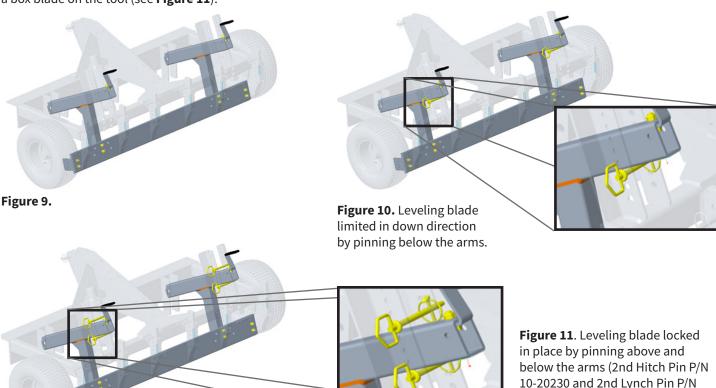
Bolt on Scarifier Tip



10-20232 are optional and can be ordered through customer service).

Leveling Blade

The leveling blade can be used as an auto-leveling device when it is in the float position [no pins to lock it into position] (see **Figure 9**). If the blade is carrying too much material, it can be pinned higher by inserting the pins in the upright tower underneath the handle of the leveling bar (see **Figure 10**). It can also be locked into place by using the adjustment pins above the bar to create a box blade on the tool (see **Figure 11**).

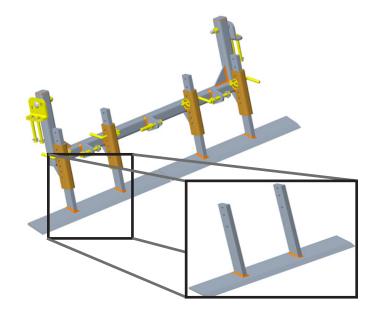


Profile Blades

The profile blades are used on the Equine and Trevor Brazile units and can operate at a depth of up to 4" and are adjustable at ½" increments. This attachment cuts parallel to the arena grade, while riding along just above the base, to remove dangerous compaction layers and aerify the footing. This creates a sheet of loose material. The grooming rods are then able to break up the loose material as it flows through the tool. The Profile Blade attachment ensures that what the horse and rider see on the top surface, is also what the horse feels when his hooves penetrate into the footing material. It is important to remember that the profile blades are used for grooming, not the renovation of the arena.

The Profile blades are optional on the Property Edition. Use after scarifying in gravel applications, as a part of our "gravel resurfacing system".

See pages 21-23 for Profile Blade setup depth guide.



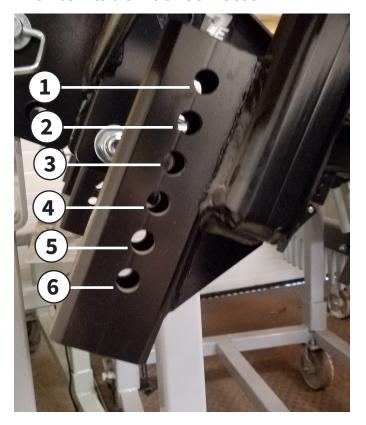
Depth Guide

2 1.5" 1 2" 2 2.5" 1 3" 2 3.5" 1 4" 2 4.5" 1 5" 2 5.5" Rade Hole Depth 2 EVEN 1 .5" 2 1" 1 1.5" 2 2"	2 2 1.5" 1 1 2" 3 2 2.5" 2 1 3" 4 2 3.5" 3 1 4" 5 2 4.5" 4 1 5" 6 2 5.5" Pocket Hole Blade Hole Depth 2 2 EVEN 1 1 2 5" 3 2 1" 2 1 1.5"	1 2 3 4	Scarifier Hole 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Depth 3" 4" 5" 6" Depth 1.5" 2.5" 3.5" 4.5"	Pocket Hole	Rod Hole 3 3 2 2 2 Rod Hole 3 3 3 2 2 2	Dept 3" 4" 5" 6" 7" Dept .5" 2.5" 3.5" 4.5"
1 2" 2 2.5" 1 3" 2 3.5" 1 4" 2 4.5" 1 5" 2 5.5" Rade Hole Depth 2 EVEN 1 .5" 2 1" 1 1.5" 2 2"	1 1 2" 3 2 2.5" 2 1 3" 4 2 3.5" 3 1 4" 5 2 4.5" 4 1 5" 6 2 5.5" Pocket Hole Blade Hole Depth 2 2 EVEN 1 1 .5" 3 2 1" 2 1 1.5" 4 2 2" 3 1 2.5"	2 3 4 Pocket Hole 1 2 3	Scarifier Hole 1 1 1	4" 5" 6" Depth 1.5" 2.5" 3.5"	2 3 1 2 Pocket Hole 1 2 3 1	3 3 2 2 2 Rod Hole 3 3 3 2	4" 5" 6" 7" Dept .5" 1.5' 2.5' 3.5'
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lade Hole Depth 2 EVEN 1 .5" 2 1" 1 1.5" 2 2"	Pocket Hole Blade Hole Depth 2 2 EVEN 1 1 .5" 3 2 1" 2 1 1.5" 4 2 2" 3 1 2.5"	1 2 3	1 1 1	1.5" 2.5" 3.5"	1 2 3 1	3 3 3 2	.5' 1.5 2.5 3.5
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2 EVEN 1 .5" 2 1" 1 1.5" 2 2"	2 2 EVEN 1 1 .5" 3 2 1" 2 1 1.5" 4 2 2" 3 1 2.5"	1 2 3	1 1 1	2.5" 3.5"	1 2 3 1	3 3 2	1.5 2.5 3.5
1 .5" 2 1" 1 1.5" 2 2"	1 1 .5" 3 2 1" 2 1 1.5" 4 2 2" 3 1 2.5"	3	1	2.5" 3.5"	3 1	3	1.5 2.5 3.5
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2 2"	4 2 2" 3 1 2.5"	4	1	4.5"			
	3 1 2.5"				2	2	4.5
1 2.5"	5 2 3"				3	2	5.5
2 3"					1	1	6.5
1 3.5"	4 1 3.5"						
2 4"	6 2 4"						
ade Hole Depth	Pocket Hole Blade Hole Depth	Pocket Hole	Scarifier Hole	Depth	Pocket Hole	Rod Hole	Dep
1 EVEN	· ·	1	1	EVEN	2	3	EVE
2 .5"		2	1	1"	3	3	1"
1 1"		3	1	2"	1	2	2"
2 1.5"	5 2 1.5"	4	1	3"	2	2	3"
1 2"			_	-	_	_	
_							
2 2.5"	5 1 3"						
	4	1 2" 2 2.5"	1 2" 2 2.5"	1 2" 2 2.5"	1 2" 2 2.5"	1 2" 2 2.5"	1 2" 2 2.5"

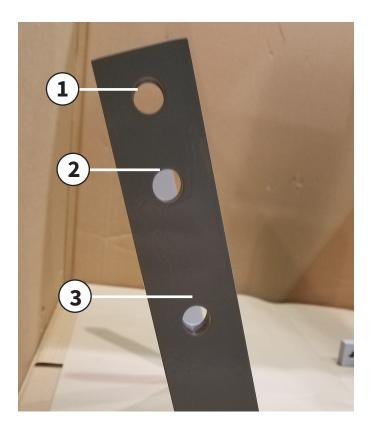
^{***}ALL DEPTHS ARE APPROXIMATE! PLEASE CHECK DEPTH ONCE IN USE! BE AWARE OF YOUR BASE***

THESE DEPTHS ARE ALL BASED ON NEW PARTS. OVER TIME AS THEY WEAR THIS CHART WILL NO LONGER BE VALID

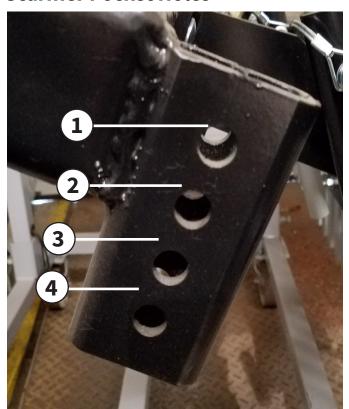
Profile Blade Pocket Holes



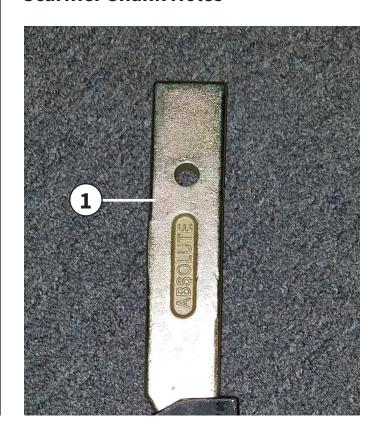
Profile Shank Holes



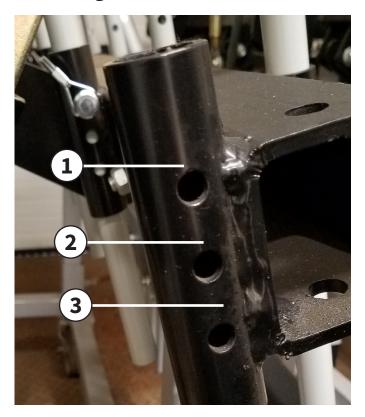
Scarifier Pocket Holes



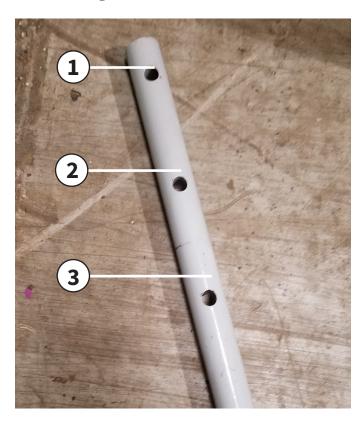
Scarifier Shank Holes



Grooming Rod Pocket Holes



Grooming Rod Holes



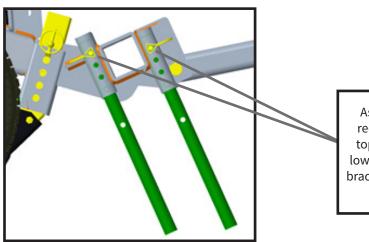
Replacement Parts

All of the ground engaging components are considered wear parts and will need to be replaced as they wear out from use. To reorder, please contact the ABI Support department at 877-788-7253.

Grooming Rods

Grooming Rods should be replaced if the rod is bent beyond repair or have worn beyond the ability to function (approximately 11 ½" of rod remaining)

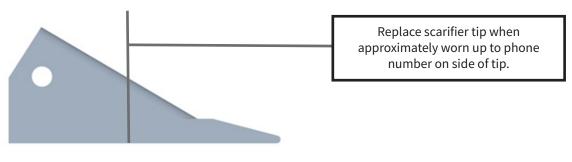
Replace Grooming Rod when approximately 11 1/2" of rod is remaining

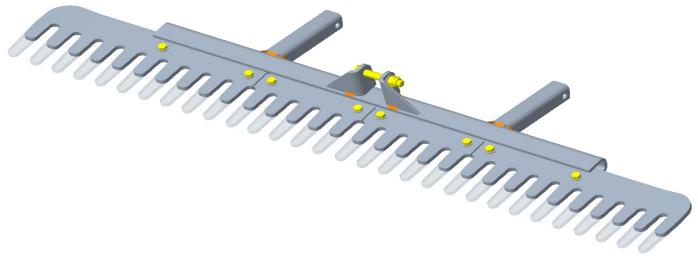


As the Grooming Rod wears, it is recommended to NOT mount the top hole in the Grooming Rod any lower than the top hole in the frame bracket - a bent rod or damage to the frame may occur.

Scarifier Tips

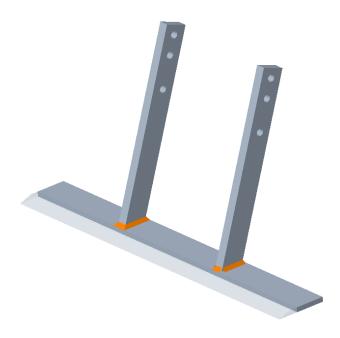
Scarifier Tips should be replaced when the tip is worn up to where the phone number is on the side of the Scarifier Tip. Requires (2) ½" wrenches to remove.





Finish Rake

As the teeth of the finish rake wear, angle adjustment of the rake is required to maintain a nice finish of the material. If the angle of the finish rake no longer provides the required finish due to excessive rake wear, replacement is required.



Profile Blade

Profile Blades should be replaced when the edge of the blade has worn down to the weld on the angled shanks.

Maintenance

Toplink - Be sure to keep the threaded parts of toplinks greased so they don't seize over time.

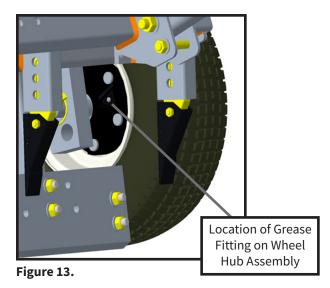
Finish Rake - Occasionally over the life the tool, bent finger(s) on the finish rake may appear. If this occurs, place a pipe over the bent finger and use the pipe as leverage to straighten the finger back out.

Grooming Rods - If one of the grooming rods appears to be bent, use a vice and hammer to bend it back straight.

Finish – To prevent rust from developing on a surface due to scratches on the tool, use a rust stopping primer and semi-gloss black paint to refinish the damaged area.

Tire Pressure - 40 PSI recommended tire pressure.

Wheels and Hubs - The bearings in the hubs on the TR3-E should be greased every 3 months. They should also be greased before any long period of storage. (See **Figure 13**)



Troubleshooting & FAQs

· Profile blades are making a chattering noise when dragged.

This is probably due to the profile blades not being level. This can cause them to chatter or create waves in the arena. To resolve this issue, double check to make sure the upright towers are vertically level when engaged in the material.

• One of the tires is locked up or wobbling.

Remove the hub from spindle and check the bearings. In most cases, tires lock up due to the bearings not being greased, leading to bearing failure.

• The arena footing is too fluffy.

Take the grooming rods out of play then lock the leveling blade in place by pinning above and below the leveling blade arms. This will create a compacting effect with the now fixed blade. The finish rake also has a compacting effect and can be adjusted to carry more material, thereby re-firming the footing.

· Tractor is bogging down.

First check how much material is on leveling blade. If the material is flowing over the blade, then pin the blade up a hole or two, allowing more material to pass under the blade. Check the depth of grooming rods and scarifier tips. Attempting to rip too deep in one pass, the more tension put on the tractor and the more likely the tractor is going to bog down. Suggest to start decompacting the 1st 2" until loose then drop down to 4" and so on.

· Trouble steering.

If the tractor is not following the front tires or lacking front-end traction, front end weights may need to be added. Check the weight requirements in the tractor's owner's manual.

• Profile Blades riding on top of dirt compacting the footing.

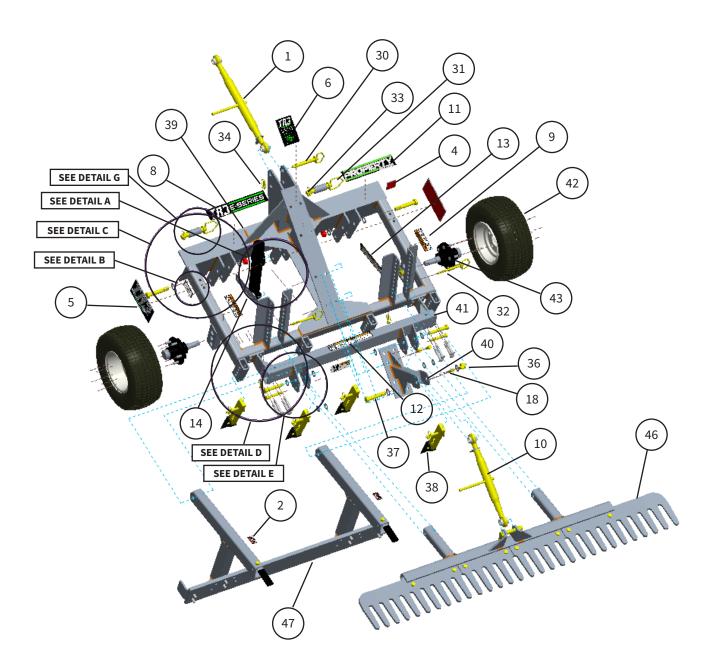
If the Profile Blade edge is angled upward due to the type of tire used on the tractor or how high the tractor sits off the ground or how long/short the 3 point hitch is, it could cause the blades to ride up on top of the dirt and compact the footing. One solution to try and correct this is to adjust the bolts (see **Figure 12**) to a different hole location – this will change the pitch of the profile blades. Another reason for Profile Blades riding on top of dirt compacting the footing is if the Leveling Blades are parallel to the ground to groom just the top ½" of the material, the blades may ride up on top of the material compacting it. Try slightly adjusting the angle of the blades by moving the bolts in **Figure 12** so that the edge of the blades are digging into the top ½" of the material. Drive 15' to 20' then check to see if the blades are at the desired depth and adjust as necessary.

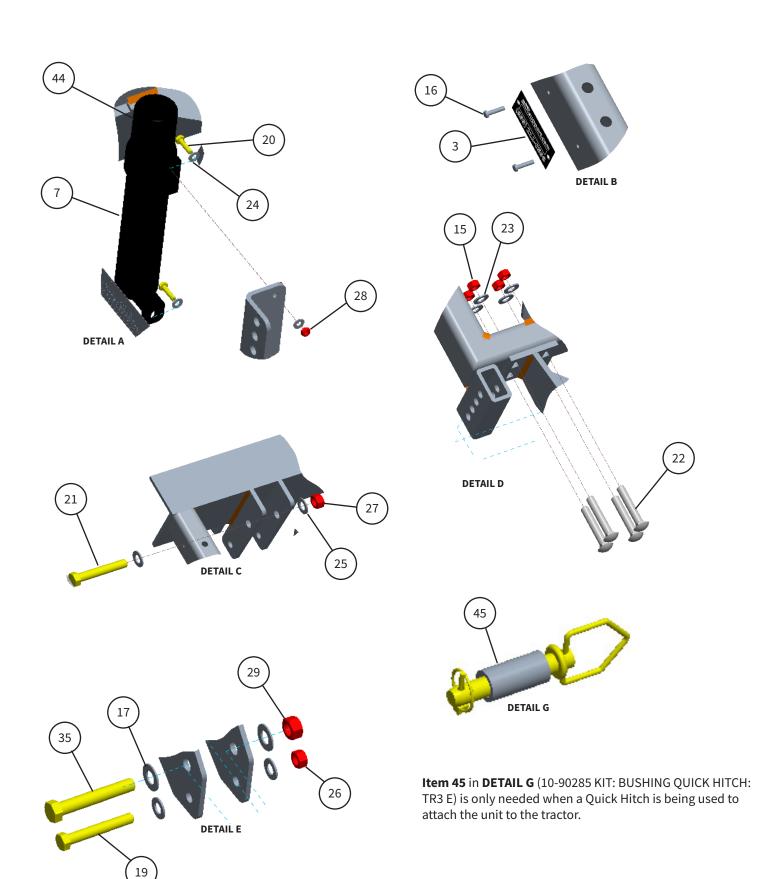


3 hole positions (on both sides of the unit) to adjust pitch (angle) of Profile Blades.

Parts Description

TR3-E Series - 6FT/7FT/8FT

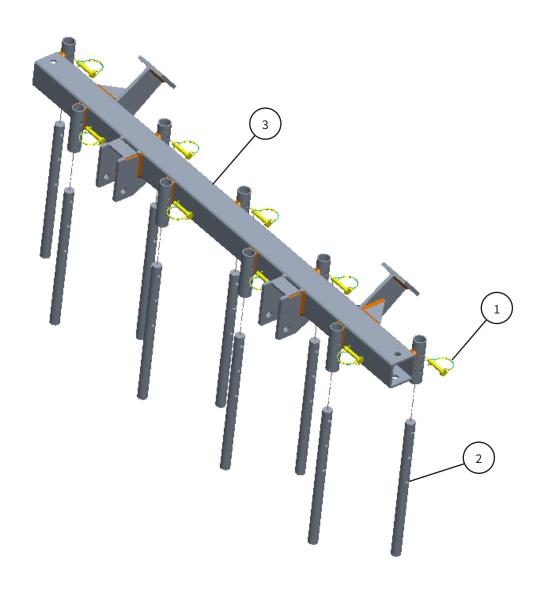




ITEM	PART #	DESCRIPTION
1	10-10078	TOPLINK, 21" W/LOCK:ZINC
2	10-10096	LBL:PINCH POINT A 1" X 2"
3	10-10161	ABI SERIES SERIAL NUMBER PLATE
4	10-10444	LABEL: DO NOT PUSH BACKWARDS: TR3 E
5	10-11376	LABEL TR3 E MAST
6	10-11379	LBL: ABI ATTACHMENTS SPINE SYMBOL DECAL (3.00" X 3.14")
7	10-10449	TR3 E MANUAL CANISTER
8	10-11378	LBL: TR3 E SERIES 6' TR 3 E
9	10-10446	LBL: TR3 E SERIES 7' TR 3 E
9	10-10446	LBL: TR3 E SERIES 8' TR 3 E
9	10-10452	LABEL: DO NOT STEP ON TIRE
10	10-10588	TOPLINK: 17" CLOSED CAT I
11	10-11380	LBL: TR3 E SERIES 8' TR 3 E
12	10-10649	LBL: LARGE SUB BRAND: TR3 PROPERTY 7'
12	10-10649	LBL: LARGE SUB BRAND: TR3 PROPERTY 8'
12	10-10976	LBL: WARNING - CRUSHING-PINCHING
13	10-10977	LBL: WARNING - FALLING - BLADE
14	10-10978	LBL: WARNING - READ - MANUAL
15	10-20050	1/2-13 TOP LKGRC
16	10-20104	RIVET: .5625 GRIP: SHOP SUPPLY
17	10-20145	5/8 SAE F/W ZNC
18	10-20164	HX HD BOLT:1/2-13 1.5":ZINC GR5
19	10-20172	HX HD BOLT:1/2-13 3.5":ZINC GR5
20	10-20175	HX HD BOLT:1/4-20 1":ZINC GR5
21	10-20179	HX HD BOLT:3/4-10 4.5":ZINC GR5
22	10-20184	CARR BOLT:1/2-13 3":ZINC GR5
23	10-20194	FLT WSHR:1/2 SAE: CL ZINC
24	10-20196	FLT WSHR:1/4 SAE:CL ZINC
25	10-20197	FLT WSHR:3/4 SAE GR5:ZINC
26	10-20201	NYLOCK NUT:1/2-13:ZINC GR 5

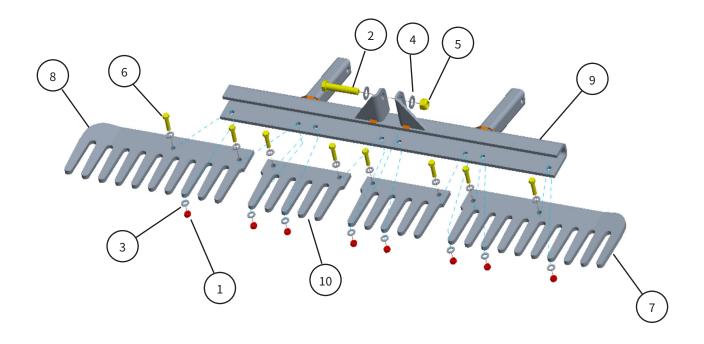
ITEM	PART #	DESCRIPTION
27	10-20206	NYLOCK NUT:3/4-10:ZINC YEL GR 8
28	10-20208	NYLOCK NUT:1/4-20:ZINC GR 5
29	10-20209	NYLOCK NUT:5/8-11:ZINC CL
30	10-20220	HITCH PIN:3/4"X4.25":ZINC
31	10-20228	HITCH PIN:7/8" X 5":ZINC
32	10-20230	HITCH PIN:1/2" X 5":ZINC
33	10-20232	LYNCH PIN:1/4"X1.25":ZINC
34	10-20233	LYNCH PIN:7/16"X1.25":ZINC
35	10-20291	HX HD BOLT:5/8-11 4.0":ZINC GR5
36	10-20344	NYLOCK NUT:3/4-10 :ZINC GR5
37	10-20361	HX HD BOLT:3/4-10 4": ZINC GR5
38	10-40019	9" SCARIFIER WITH HARDWARE
39	10-40322	WLDMT:FRM:6' TR3 E SERIES TB
40	10-40370	WLDMT: SUPP MEMBER: TR3E V2
41	10-40371	WLDMT: 6' RAKE CONNECT: TR3 PROPERTY
41	10-40372	WLDMT: 7' RAKE CONNECT: TR3 PROPERTY
41	10-40373	WLDMT: 8' RAKE CONNECT: TR3 PROPERTY
42	10-60006	TIRE:16.5x6.50x8 TURF:5 ON 4.5 WH OFFSET RIM
43	10-60058	HUB ASM:5 ON 4.5":1" ID BRNG
44	10-80068	MANUAL: TR3E: HARDCOPY
45	10-90285	KIT: BUSHINGS QUICK HITCH: TR3 E
46	10-90316	ASM:RAKE:6' TR3 E SERIES
46	10-90317	ASM:RAKE:7' TR3 E SERIES
46	10-90318	ASM:RAKE:8' TR3 E SERIES
47	10-90351	ASM:LEVEL BLADE:6' TR3 PROPERTY
47	10-90352	ASM:LEVEL BLADE:7' TR3 PROPERTY
47	10-90353	ASM:LEVEL BLADE:8' TR3 PROPERTY
47	10-90452	ASM:LEVEL BLADE:6' TR3 EQUINE & T.B.
47	10-90453	ASM:LEVEL BLADE:7' TR3 EQUINE & T.B.
47	10-90454	ASM:LEVEL BLADE:8' TR3 EQUINE & T.B.

KIT: Grooming Rods, 6T/7FT/8FT (Equine and Trevor Brazile)



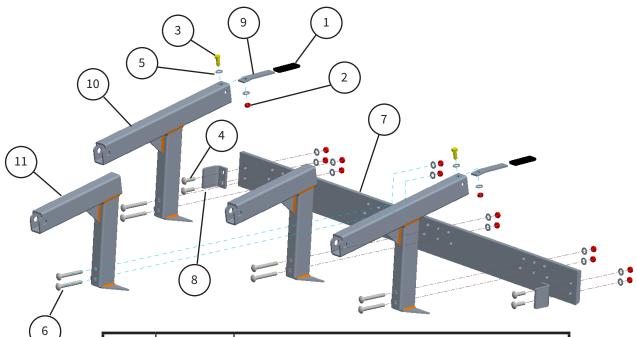
ITEM	PART #	DESCRIPTION
1	10-20342	3/8 X 1 3/4 RD WIRE LOCK PIN
2	10-31029	ROD: GROOMING: TR3 E
3	10-40325	WLDMT: GROOMING ROD SUPPORT 6': TR3 E TB
3	10-40326	WLDMT: GROOMING ROD SUPPORT 7': TR3 E TB
3W	10-40327	WLDMT: GROOMING ROD SUPPORT 8': TR3 E TB

ASM: Rake: 6FT/7FT/8FT



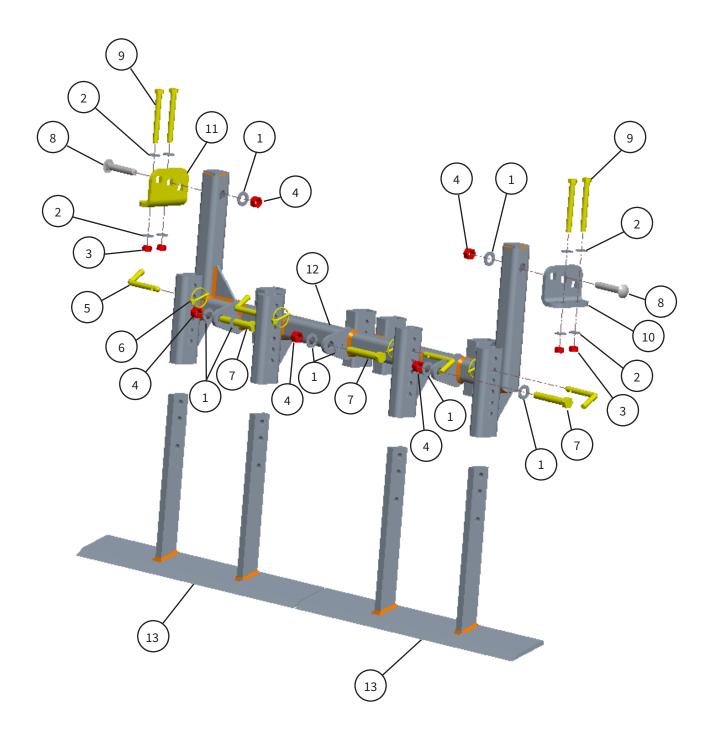
ITEM	PART #	DESCRIPTION
1	10-20050	1/2-13 TOP LKGRC
2	10-20179	HX HD BOLT: 3/4-10 4.5": ZINC GR5
3	10-20194	FLT WSHR: 1/2 SAE: CL ZINC
4	10-20197	FLT WSHR: 3/4 SAE GR5: ZINC
5	10-20344	NYLOCK NUT: 3/4-10 : ZINC GR5
6	10-20359	HX HD BOLT: 1/2-13 1.75": ZINC GR5
7	10-31074	24" FINISH RAKE EXTENSION SILVER, 1/2" RH
8	10-31075	24" FINISH RAKE EXTENSION SILVER, 1/2" LH
9	10-40358	WLDMT: RAKE 6': TR3 E V2
9	10-40359	WLDMT: RAKE 7': TR3 E V2
9	10-40360	WLDMT: RAKE 8': TR3 E V2
10	10-50001	12" COMB: .5" THICK

ASM: Level Blade: 6FT/7FT/8FT



ITEM	PART #	DESCRIPTION
1	10-10442	COVER: HANDLE DRAG BAR: TR3 E
2	10-20050	1/2-13 TOP LKGRC
3	10-20116	HX HD BOLT:1/2-13 1.25":ZINC GR5
4	10-20187	CARR BOLT:1/2-13 2":ZINC GR5
5	10-20194	FLT WSHR:1/2 SAE: CL ZINC
6	10-20333	CARR BOLT:1/2-13 4.5 ZINC GR5
7	10-31035	PLATE: DRAG BLADE 6': TR3 E
7	10-31036	PLATE: DRAG BLADE 7': TR3 E
7	10-31037	PLATE: DRAG BLADE 8': TR3 E
8	10-31053	WING:LEVEL BLADE:TR3 E
9	10-31399	PLATE: HANDLE DRAG BAR: TR3 E (6', 7' & 8' PROPERTY)
9	10-31076	PLATE: HANDLE DRAG BAR: TR3 E (6', 7' & 8' EQUINE & T.B.)
10	10-40332	WLDMT: DRAG BAR ARMS V2: TR3E
11	N/A	WLDMT: DRAG BAR ARMS MIDDLE 6' V2 : TR3E
11	N/A	WLDMT: DRAG BAR ARMS MIDDLE 7' V2 : TR3E
11	10-40333	WLDMT: DRAG BAR ARMS MIDDLE 8' V2 : TR3E

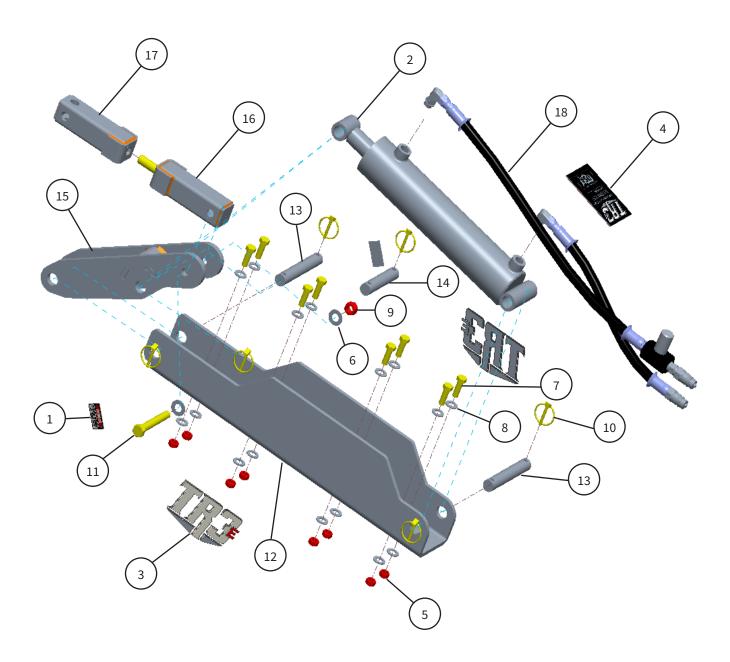
ASM: Profile Blade: 6FT/7FT/8FT (Equine & Trevor Brazile)



ASM: Profile Blade: 6FT/7FT/8FT (cont'd)

ITEM	PART #	DESCRIPTION
1	10-20145	5/8 SAE F/W ZNC
2	10-20194	FLT WSHR:1/2 SAE: CL ZINC
3	10-20201	NYLOCK NUT:1/2-13:ZINC GR 5
4	10-20209	NYLOCK NUT:5/8-11:ZINC CL
5	10-20221	BENT PIN:1/2"X3.5":ZINC
6	10-20232	LYNCH PIN:1/4"X1.25":ZINC
7	10-20291	HX HD BOLT:5/8-11 4.0":ZINC GR5
8	10-20293	CARR BOLT:5/8-13 3.00":ZINC GR5
9	10-20320	HX HD BOLT:1/2-13 4.50":ZINC GR5
10	10-31055	BRKT: LH PROFILE BLADE ANGLE: TR3 E
11	10-31056	BRKT: RH PROFILE BLADE ANGLE: TR3 E
12	10-40268	WLDMT: 6' PROFILE BLADE PIVOT: TR3 E
12	10-40266	WLDMT: 7' PROFILE BLADE PIVOT: TR3 E
12	10-40271	WLDMT: 8' PROFILE BLADE PIVOT: TR3 E
13	10-40269	WLDMT: 6' PROFILE BLADE:TR3
13	10-40267	WLDMT: 7' PROFILE BLADE:TR3
13	10-40272	WLDMT: 8' PROFILE BLADE:TR3

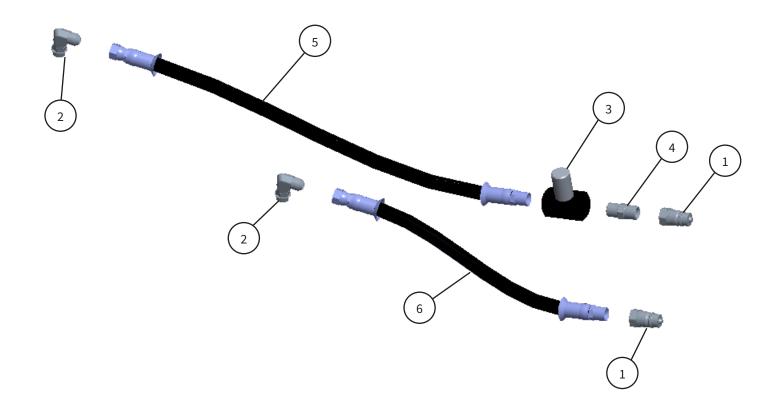
KIT: Trevor Brazile Hydraulic Option



KIT: Trevor Brazile Hydraulic Option (cont'd)

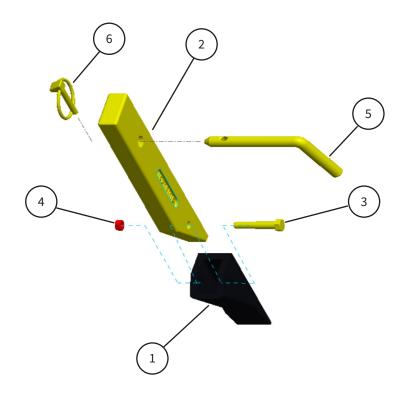
ITEM	PART #	DESCRIPTION
1	10-10096	LBL:PINCH POINT A 1" X 2"
2	10-10576	CYL: 3 X 12 TUBE ENDS
3	10-11388	LBL: ABI ATTACHMENTS TR3E TB PLATE DECAL (6.65" X 4.00")
4	10-11386	LBL: ABI ATTACHMENTS TR3E TB SPINE DECAL (3.00" X 3.14")
5	10-20050	1/2-13 TOP LKGRC
6	10-20145	5/8 SAE F/W ZNC
7	10-20164	HX HD BOLT:1/2-13 1.5":ZINC GR5
8	10-20194	FLT WSHR:1/2 SAE: CL ZINC
9	10-20209	NYLOCK NUT:5/8-11:ZINC CL
10	10-20232	LYNCH PIN:1/4"X1.25":ZINC
11	10-20350	HX HD BOLT:5/8-11 4.5":ZINC GR5
12	10-31268	PLATE: CYL ATTACH: TR3E TB
13	10-31273	ROD: CYL ATTACH LONG: TR3 TB
14	10-31274	ROD: CYL ATTACH SHORT: TR3 TB
15	10-40337	WLDMT: ACTUATING ARM: TR3E TB
16	10-40347	WLDMT: ABI TOPLINK BOLT: TR3E TB
17	10-40348	WLDMT: ABI TOPLINK BOLT: TR3E TB
18	10-90310	KIT: HYDRAULICS TB: TR3E

KIT: Trevor Brazile Hydraulic Hose Option



ITEM	PART #	DESCRIPTION
1	10-10108	FITTING:3/4 NPT:TRACTOR HYDRO
2	10-10250	FITTING:1/2 JIC - 1/2 O-RING:MALE 90
3	10-10610	VALVE: NEEDLE 1/2 NPT
4	10-10611	FITTING: 08MP-08MP HEX NIPPLE
5	10-10612	HOSE: 60" JIC-6 FEMALE SWIVEL: JIC-1 MALE RIGID
6	10-10613	HOSE: 50" JIC-6 FEMALE SWIVEL: JIC-1 MALE RIGID

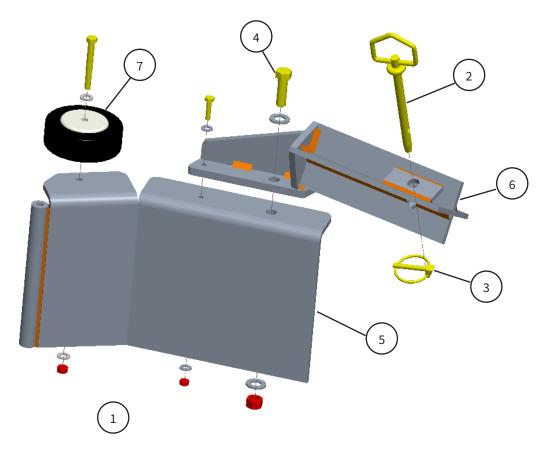
9" Scarifier with hardware



ITEM	PART #	DESCRIPTION
1	10-10047	TIP: SCARIFIER: ALL TOOLS
2	10-10048	9" SCARIFIER SHANK
3	10-20121	5/16-18 X 1-3/4 HEX C/S GR 8 Z/YEL
4	10-20200	BASE HEXNUT
5	10-20221	BENT PIN:1/2"X3.5":ZINC
6	10-20232	LYNCH PIN:1/4"X1.25":ZINC

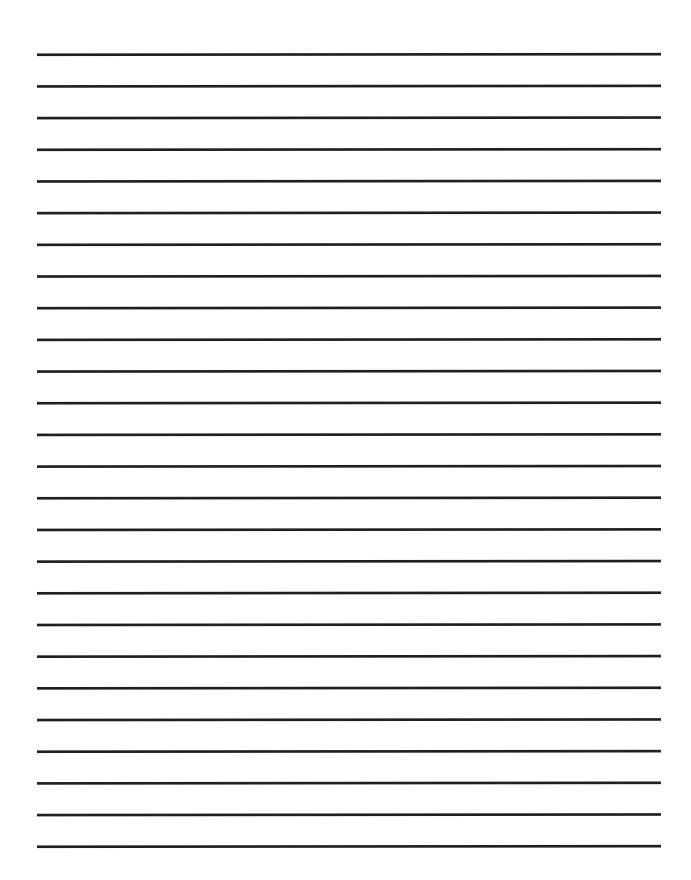
TR3 E-Series Option: 10-90266 KIT: Rail Blade Right

(Equine & Trevor Brazile Editions only)



ITEM	PART#	DESCRIPTION
1	10-10876	INSTRUCTION SHEET: TR3 E RAIL BLADE
2	10-20230	HITCH PIN:1/2" X 5":ZINC
3	10-20232	LYNCH PIN:1/4"X1.25":ZINC
4	10-20339	KIT: TR3 E RAIL BLADE HARDWARE
5	10-40300	WLDMT: RAIL BLADE RIGHT: RASCAL
6	10-40313	WLDMT: RAIL BLADE ARM X BRACE: TR3 E
7	10-60069	WHEEL: RAIL BLADE: TR3E RASCAL

Notes



Contact Information

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Website: www.abisupport.com

To order parts or to speak to one of ABI's Customer Service Representatives contact us Monday to Friday 9am to 5pm EST.

The setup video for operation is available at <u>abisupport.com</u> under TR3 E-Series or by following this link: https://youtu.be/Fk3AJaPJNMY

For additional information on the use or setup of the TR3 E-Series, please contact the ABI customer support team at 855.211.0598.

Additional support videos are available at the ABI support page (abisupport.com) under each tool.

Warranty Information and Return Policy - Warranty and return policy information can also be found on the ABI support page under each tool. For additional questions regarding warranty or return policy, contact the ABI customer support team at 855.211.0598.



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