



Product Manual

**DirtDoctor™
Tow Behind Infield Groomer
10003679**



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DirtDoctor™ Tow Behind Infield Groomer

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Thank you for purchasing the Newstripe DirtDoctor Tow Behind Infield Groomer.

Please read over the instructions and make sure you understand the operating procedures before using the DirtDoctor.

Please check the serial number on your unit. This Manual is for units with serial number 1035174 and above only. For units with serial numbers below 1035174, please contact Newstripe for the correct manual



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PRECAUTIONARY WARNINGS

- Please read and understand all operation instructions as detailed in this manual. Failure to follow specified instructions may result in equipment damage or severe injury to personnel, up to and including death.
- **CAUTION:** The DirtDoctor will move when raising and lowering the wheels if it is not attached to a tow vehicle.
- **CAUTION:** The wheel arms can move quickly and with great force when raising the wheels to lower the DirtDoctor for use. Keep your head and body out of the path of the wheel arm.
- **CAUTION:** When adjusting the pulverizer bar up or down, make sure that the T-Handle quick release pin engages the hole in the pulverizer mount on each side of the unit. If the pin does not engage the hole and is either in front of or behind the pulverizer mount, severe damage may occur during use.
- **CAUTION:** Do not tow or operate the unit with the tongue caster in place, or damage to the tongue jack will occur. The caster is only for moving the unit on a hard surface when a tow vehicle is not attached.
- **DO NOT** exceed 15 mph when towing the DirtDoctor.
- **NEVER** allow anyone to ride on the DirtDoctor while it is being operated or towed. This may result in severe injury or death.
- **ALWAYS** consult your Facility Safety and/or Personnel Department for specified safety protocols prior to operating this equipment.

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ASSEMBLY

The DirtDoctor is shipped on a pallet with the tongue assembly removed. Check for any damage that may have occurred during shipping. If you see any damage, make a note of it on the delivery paperwork and advise the factory immediately.

You will need two $\frac{3}{4}$ " wrenches and/or sockets for assembly. We recommend a minimum of two people, and the use of automotive jack stands to aid in assembling the unit.

1. Remove all shipping ties that secure the DirtDoctor to the shipping pallet.
2. Cut the shipping ties that secure the tongue to the top of the unit. Tip the tongue upright and set it in front of the unit for caster installation.

NOTE: The tongue jack is cranked to the full up position with the crank handle flipped over for shipping purposes so that it does not get damaged. Rotate the crank handle clockwise several turns and then flip it over to the normal operating position. Slide the caster onto the tongue jack and secure it with the supplied clevis pin.

3. Place the tongue in front of the unit, resting on jack stands and its caster. Align the holes in the tongue with the holes in the frame.

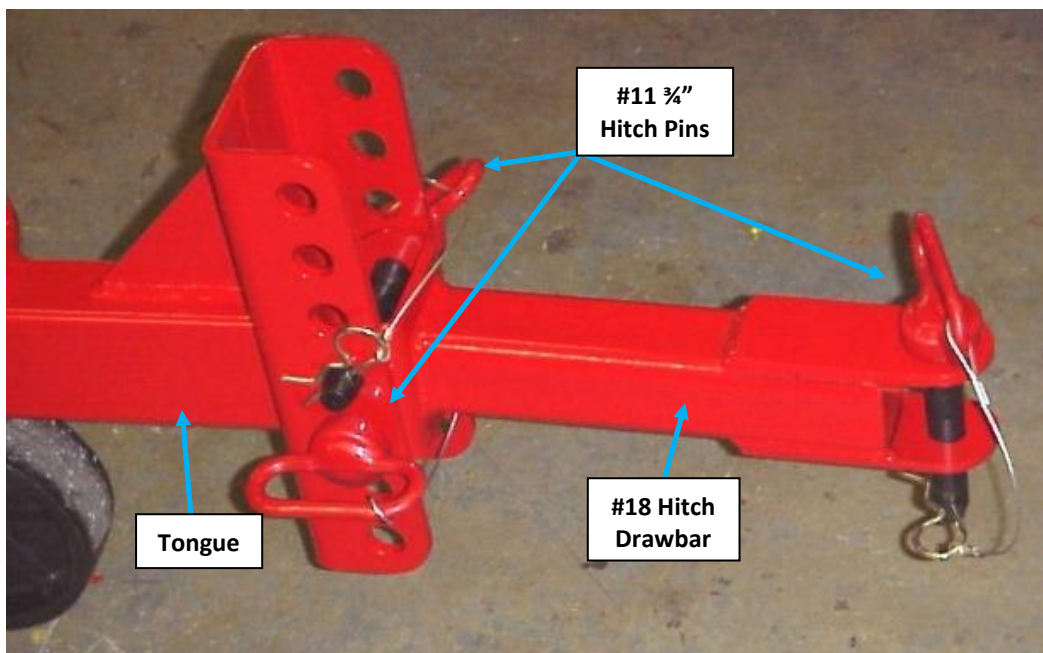
NOTE: Leave the DirtDoctor on the pallet to install the tongue. After installing the tongue, you may lower the wheels to remove it from the pallet.

4. Place a $\frac{1}{2}$ " Flat Washer on the (6) $\frac{1}{2}$ " x $1\frac{1}{2}$ " Bolts, and then install them through the holes of the frame and tongue from the inside out. Place one more $\frac{1}{2}$ " Flat Washer on each of the six bolts on the outside, followed by a $\frac{1}{2}$ " Nylock Nut. Make sure the tongue is aligned with the frame and then tighten all six bolts with the $\frac{3}{4}$ " wrenches or sockets.

NOTE: If the bolts are installed from the wrong direction, they will interfere with the ripper teeth.

5. Install the drawbar in the nose of the tongue with two $\frac{3}{4}$ " x 4" Hitch Pins.

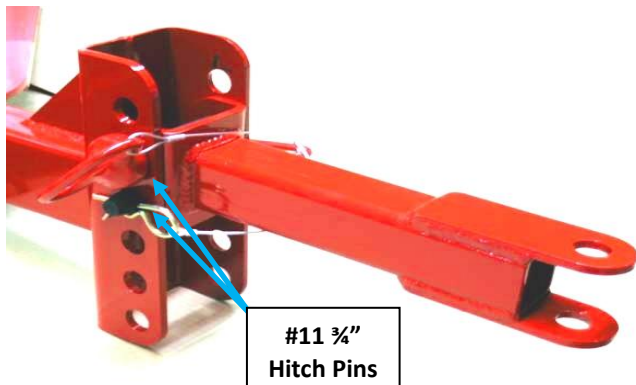
NOTE: The third $\frac{3}{4}$ " x 4" Hitch Pin is installed in the end of the draw bar.



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TOWING

1. Use the tongue jack to raise the DirtDoctor tongue to the proper height to connect it to the tractor or utility vehicle. Connect the DirtDoctor to the tow vehicle with one of the $\frac{3}{4}$ " x 4" Hitch Pins.
2. **To lower the wheels and lift the roller off the ground for transport:** Step to one side of the unit. Remove the lynch pin from the wheel arm pin and then slide it out until it clears the pivot plate. Lift the wheel arm up and back until the wheel arm pin lines up with the top hole in the pivot plate. Slide the wheel arm pin into the hole in the plate and secure it with the lynch pin. Repeat this procedure for the other side.
3. Two $\frac{3}{4}$ " x 4" Hitch Pins are used to lock the drawbar straight for towing. Raise or lower the tongue jack to align the holes.



4. Once the drawbar is locked straight and the wheels have been lowered, raise the jack and remove the caster.

NOTE: Do not tow or operate the unit with the tongue jack caster in place, or damage to the tongue jack will occur. The caster is only for moving the unit on a hard surface when a tractor or utility vehicle is not attached.

5. You may now tow the DirtDoctor to the desired location.
6. If you are towing the DirtDoctor to the storage location, replace the caster on the tongue jack once you are there. Lower the tongue jack to disconnect the DirtDoctor from the tractor or utility vehicle.
7. You may leave the unit as is for storage or remove the drawbar and lay it on top to make it slightly more compact.
8. If you are towing the DirtDoctor out to the field, follow the operation directions once you reach the desired location.



PRECAUTIONARY WARNINGS

- **CAUTION:** The DirtDoctor will move when raising and lowering the wheels if it is not attached to a tow vehicle.
- **CAUTION:** The wheel arms can move quickly and with great force when raising the wheels to lower the DirtDoctor for use. Keep your head and body out of the path of the wheel arm!
- **DO NOT** exceed 15 mph when towing the DirtDoctor.

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RAISING WHEELS FOR OPERATION

1. **To raise the wheels for operation:** Stand on the side of the unit and remove safety lynch pin from the wheel lift arm pin.
2. Put pressure on the wheel arm handle and then pull wheel lift arm pin outward until it clears the pivot plate.
CAUTION: The wheel arms can move quickly and with great force when raising the wheels to lower the DirtDoctor for use. Keep your head and body out of the path of the wheel arm!
3. There are three operational hole positions in the pivot plate that allow you to use the ripper blades, pulverizer bar, and center drag section without the compacting roller. Position the wheel arm at the desired hole and then slide the wheel arm pin into the hole.
4. Secure the wheel arm pin with the lynch pin.

ADJUSTING RIPPER BLADES AND PULVERIZER

1. Use the tongue jack to raise the front of the DirtDoctor, so that the ripper blades and pulverizer bar are not in contact with the ground.
2. Adjust the ripper blade height by removing the hitch pins on either side of the frame and move the ripper bar up or down to the desired height. Slide the hitch pin into the ripper blade height adjustment plate and secure it with the hairpin on the hitch pin lanyard.
NOTE: The upmost position of the ripper blade bar is used for transport or non-cutting.
3. To adjust the pulverizer height, push the button in on the T-Handle quick release pin and remove it on either side of the frame. Move the height adjustment lever to raise or lower the pulverizer to the desired height. Align the pulverizer adjustment plate with the desired hole in the frame. Push the T-Handle pins into the frame hole and adjustment plate, ensuring the pins lock fully in place.
CAUTION: Make sure all pins are fully inserted and secured at all times to avoid serious damage to the equipment during transport and operation.

APPROXIMATE RIPPER BLADE AND PULVERIZER DEPTHS

Pulverizer in the 1st Position (Bottom)		Pulverizer in the 3rd Position	
Ripper Blades in the Lowest Position	¼" - ½" Deep	Ripper Blades in the Lowest Position	1 ¾" Deep
Ripper Blades in the Middle Position	0" Deep	Ripper Blades in the Middle Position	¾" Deep
Pulverizer in the 2nd Position		Pulverizer in 4th the Position (Top)	
Ripper Blades in the Lowest Position	1" Deep	Ripper Blades in the Lowest Position	2 ½" Deep
Ripper Blades in the Middle Position	0" Deep	Ripper Blades in the Middle Position	1 ½" Deep

Place the Ripper Blades in the top position for non-cutting applications, where the unit rides on the pulverizer only. This position is also recommended for transport.

Multiple combinations may be required to achieve the correct results for your particular soil and application.

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ADJUSTING CENTER DRAG SECTION

1. After setting the ripper blade and pulverizer bar height, adjust the center drag chain length to allow the drag to contact the ground, but not interfere with the compacting roller.

NOTE: When the center drag section is reversed, the grating will scarify the ground less aggressively.

2. To reverse the center drag section, disconnect the chains and rotate the center section around. Reconnect the chains to allow the drag to contact the ground, but not interfere with the compacting roller.

OPERATION

1. Ensure DirtDoctor is properly attached to the tractor or utility vehicle that will be used for grooming.

NOTE: There are five height positions available for adjusting the height of the drawbar in the nose of the tongue to allow for different hitch heights on different vehicles. Choose the height that will allow the unit to sit as close to level as possible.

2. Ensure the tongue jack is raised completely and the swivel caster is removed during operation.
3. Raise the wheels to the desired position for proper operation. **(See RAISING WHEELS FOR OPERATION Section)**
4. Adjust the ripper blades and pulverizer to the desired height for operation. **(See ADJUSTING RIPPER BLADES AND PULVERIZER section)**

5. Set the center drag section for aggressive or passive scarification and adjust the height. **(See ADJUSTING CENTER DRAG section)**
6. Rotate the scraper to rest against the roller. This will keep build up from occurring during operation.
7. If your DirtDoctor is equipped with a finishing brush, you may lower it when making your final passes.
8. Additional weight may be added to the weight tray on the top front area of the DirtDoctor to aid with deeper cutting of hard soil surfaces.
9. When you are finished grooming your infield, prepare your DirtDoctor for towing back to the storage area. **(See TOWING section)**



PRECAUTIONARY WARNINGS

- **NEVER** place your hands or any body parts in front of the equipment or within the frame area while operating.
- **NEVER** stand or ride on the equipment. Use only for intended grooming applications.
- **CAUTION** the equipment will move when raising and lowering the transport wheels if the unit is not attached to the tow vehicle.
- **ALWAYS** stand to the side of the equipment when adjusting the transport wheels, as the wheel lift arms may move suddenly when the wheel lift arm pin is removed, and especially when unit is attached to the tow vehicle.

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MAINTENANCE

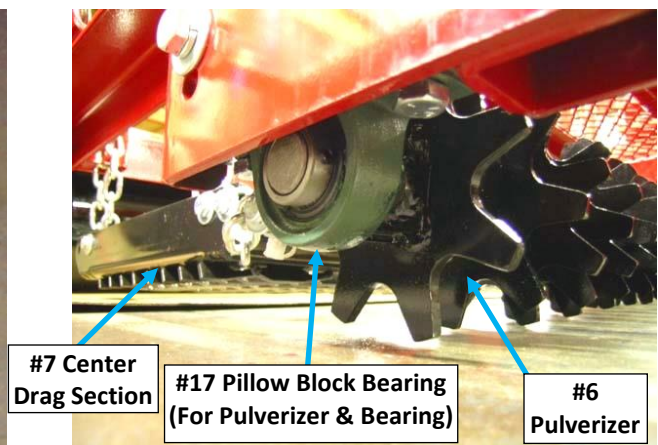
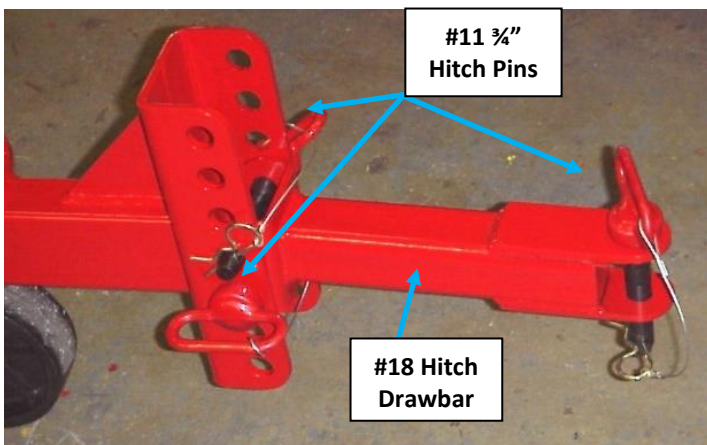
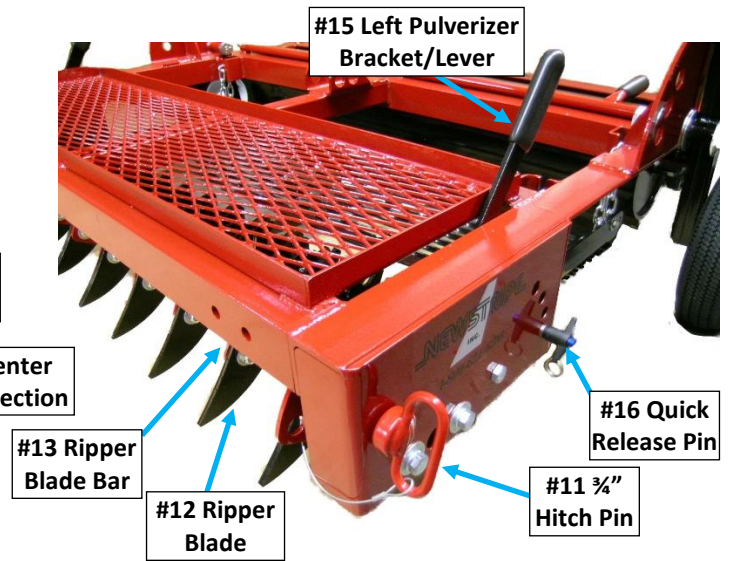
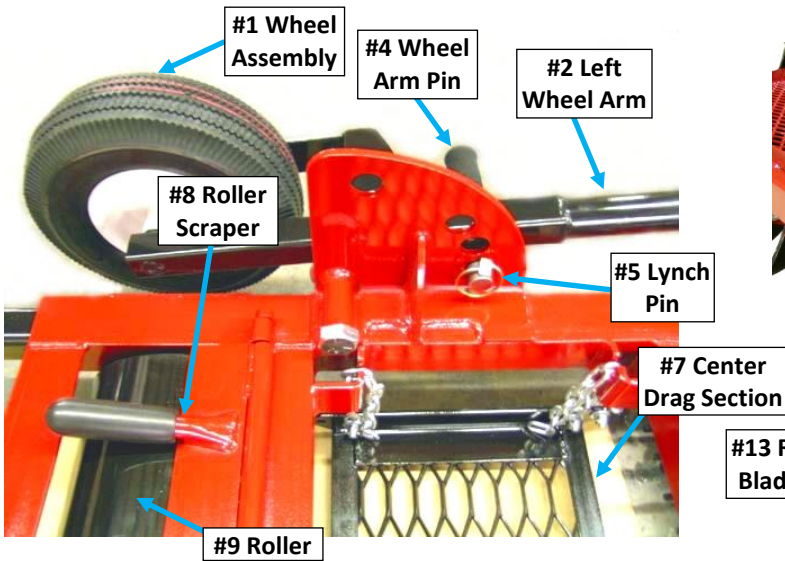
ITEM	CHECK	MAINTENANCE ACTION
Four Pillow Block Bearings (Two Pulverizer and Two Roller)	Before Each Use	Using a Grease Gun, Grease Weekly With High Pressure Bearing Grease.
Wheel Arm Pins	Before Each Use	Clean and Lubricate With Dry Lubricant Spray If Needed.
Wheels	Before Each Use	Using a Grease Gun, Grease Weekly With High Pressure Bearing Grease.
Wheel Arms	Before Each Use	Lubricate Wheel Arm Pivot Points Monthly With Light Oil.
Tongue Jack	Before Each Use	Lubricate the Jack Handle Screw Monthly With Spray Oil From the Top of the Housing.
Ripper Blades	Before Each Use	Reverse If Worn for a Fresh Cutting Edge. If Already Reversed, Replace Them When Worn.
Pulverizer	Before Each Use	Clean Off Excess Dirt Buildup. Grease Bearings as Recommended Above. Replace if Worn.
Center Drag Section	Before Each Use	Clean Off Excess Dirt Buildup. Replace if Worn.
Roller	Before Each Use	Clean Off Excess Dirt Buildup.
Finishing Brush (If Equipped)	Before Each Use	Lubricate Arm Pivot Points Weekly With Light Machine Oil. Replace Brush Segments if Worn.

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PARTS LIST

Item	Description	Part Number
#1	Wheel Assembly (2 Required)	10000129
#2	Left Wheel Arm	10000411
#3	Right Wheel Arm	10000412
#4	Wheel Arm Pin (2 Required)	10000414
#5	7/16" Lynch Pin (2 Required)	10003211
#6	Pulverizer	10000732
#7	Center Drag Section	10000735
#8	Roller Scraper	10000688
#9	Roller	10000736

Item	Description	Part Number
#10	Tongue Jack w/ Caster & Pin	10003221
#11	¾" Hitch Pin (5 Required)	10003213
#12	Ripper Blade (10 Required)	10000529
#13	Ripper Blade Bar	10000737
#14	Right Pulverizer Bracket/Lever	10000733
#15	Left Pulverizer Bracket/Lever	10000734
#16	½" Quick Release Pin (2 Required)	10000738
#17	Pillow Block Bearing (4 Required)	10003220
#18	Hitch Drawbar	10000438



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TROUBLESHOOTING GUIDE

PROBLEM	REMEDY
Ripper blades are not cutting deep enough.	<ol style="list-style-type: none">1) Make sure the swivel caster is removed for grooming operations.2) Adjust the ripper blades to the lowest position for maximum cutting depth.3) Verify the soil conditions to ensure there is adequate moisture to make the ground soft enough for proper operations.4) Additional weight may be needed for hard soil conditions.
Ripper blades are cutting too deep.	<ol style="list-style-type: none">1) Lower the hitch drawbar in the nose of the tongue.2) Adjust the pulverizer bar to fully contact the ground.3) Verify the soil conditions to ensure the ground is not too saturated and soft for proper operations.
The center drag section is producing uneven results.	<ol style="list-style-type: none">1) Check each center drag section chain and ensure that the link adjustment is the same on all four corners.2) Ensure the center drag section is not contacting the roller.
The roller is not compacting the surface to the desired result.	Rotate the wheel arms and pin them in a position where the wheels do not contact the ground during operation.
The finishing brush (If equipped) is producing uneven results.	<ol style="list-style-type: none">1) Ensure that the ripper blades are not in use, and that the roller is in full contact with the ground.2) Inspect the brush segments to insure that they are not worn or broken.
You are having difficulty towing the DirtDoctor.	<ol style="list-style-type: none">1) Check to ensure that the swivel caster is removed for towing.2) Verify that the wheels have been fully lowered for towing.3) Make sure that the ripper blades and pulverizer have been raised to their highest position for towing.4) Ensure that the center drag section has been raised high enough to not contact the ground.5) Make sure that the finishing brush (If equipped) is in the full up and locked position.

Your machine is designed to be simple and safe to operate.
Please call Newstripe at **303-364-7786** if you have any questions.

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18 Month Warranty

Newstripe, Inc. ("Newstripe") warrants to the original purchaser, for 18 (Eighteen) Months after date of purchase, that the equipment* hereby sold shall be free of defects in materials and workmanship. This warranty does not extend to any damage or malfunction resulting in misuse, neglect, accident, improper operation, or normal wear and tear.

* Gasoline engines, compressors, low pressure pumps, and transaxles are furnished with their respective manufacturers' warranties only and are not covered by any warranty of Newstripe. High pressure pumps manufactured by Newstripe (excluding wear items like diaphragms and valves) are warranted for materials and workmanship for 12 Months after the date of purchase.

Damage incurred in shipment from Newstripe to the purchaser is the total responsibility of the shipping carrier. The purchaser is responsible for noting any damages on the Bill of Lading of the shipping carrier and Newstripe will work with the shipping carrier to resolve any damages incurred.

The Newstripe obligation under this warranty and any implied warranties is limited to replacement or repair of defective parts of its manufacture without charge for 18 (Eighteen) Months from date of purchase. For service under this warranty, the purchaser shall obtain an approved Return Materials Authorization (RMA) from Newstripe and then ship the defective part or parts of the equipment, transportation prepaid by the purchaser, to Newstripe together with a written description of any claimed defect and proof of purchase date of the materials being returned. To review Newstripe's complete guidelines for warranty claims and returns, please visit our website at www.newstripe.com.

The responsibilities described above are the only responsibilities of Newstripe under this written warranty or any implied warranty and may be exercised only within 18 (Eighteen) Months from the date of original purchase. In no event shall Newstripe be liable for incidental or consequential damages and no person had any authority to bind it to any representation or warranty. Newstripe is not responsible for work done, materials furnished, or repairs made by others without its specific written authorization.

This warranty shall be in lieu of any and all other warranties, expressed or implied, including any warranties of merchantability or fitness for a particular purpose, and there is no other representation or warranty of any kind with respect to the goods sold hereby except as set forth herein. It is expressly agreed that this warranty shall be limited to the adjustment, repair or replacement of parts and the labor and services required thereby. In no event, including any claim of negligence, shall Newstripe be liable for incidental or consequential damages.

