

EXTREME ROOT GRAPPLE RAKE

HD60RAKE, HD72RAKE, HD84RAKE
113301, 113201, 113104



Operator's Manual



Read the Operator's Manual entirely. When you see this symbol, the subsequent instructions and warnings are serious follow without exception. Your life and the lives of others depend on it!

THESE ARE STANDARD PRACTICES THAT MAY NOT APPLY TO THE PRODUCTS DESCRIBED IN THIS MANUAL.

SAFETY AT ALL TIMES

Thoroughly read and understand the instructions given in this manual before operation. Refer to the "Safety Label" section, read all instructions noted on them. Do not allow anyone to operate this equipment who has not thoroughly read and comprehended this manual. Do not allow anyone who has not adequately trained in the safe operation of the equipment.

- The operator should be familiar with all functions of the unit.
- Operate implement from the driver's seat only.
- Make sure all guards and shields are in place and secured before operating the tool.
- Do not leave a tractor or implement unattended with the engine running.
- Dismounting from a moving tractor could cause severe injury or death.
- Do not allow anyone to stand between tractor and implement while backing up to implement.
- Keep hands, feet, and clothing away from power-driven parts.
- Wear snug-fitting clothing to avoid entanglement with moving parts.
- Watch out for wires, trees, etc., when raising implements. Make sure all persons are clear of the working area.
- Turning the tractor too tight may cause implement to ride upon wheels. This activity could result in injury or equipment damage.
- Do not carry passengers on the tool at any time.



LOOK FOR THE SAFETY ALERT SYMBOL

The **SAFETY ALERT SYMBOL** indicates a potential hazard to personal safety, and individuals must take safety precautions. When you see this symbol, be alert and carefully read the message that follows it. In addition to the design and configuration of equipment, hazard control and accident prevention depend on the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage.

BE AWARE OF SAFETY ALERT WORDS

DANGER: Indicates imminently hazardous practices. A situation that, if not avoided, will result in death or severe injury. The signal word is limited to the most extreme situation, typically for machine components that, for functional purposes, cannot be guarded.

WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or severe injury, and includes hazards that are exposed when guards remove. Use warnings to alert against unsafe practices.

CAUTION: Indicates a potentially hazardous situation that may result in minor or moderate injury if not avoided. It may also be used to alert against unsafe practices.

FOR YOUR PROTECTION

Thoroughly read and understand the “Safety Label” section, read all instructions noted on them.

SHUTDOWN AND STORAGE

- Lower machine to the ground, put the tractor in park, turn off the engine, and remove the key.
- Detach and store implements in an area where children typically do not play

USE SAFETY LIGHTS AND DEVICES

- Slow-moving tractors, self-propelled equipment, and towed implements can create a hazard when driven on public roads. They are challenging to see, especially at night.
- Flashing warning lights and we recommend turn signals whenever driving on the public road.

TRANSPORT MACHINERY SAFELY

- Comply with state and local laws
- The maximum transport speed for implement is 20 mph, DO NOT EXCEED. Never travel at a rate that does not allow adequate control of steering and stopping. Some rough terrain requires a slower speed.
- Sudden braking can cause a towed load to swerve and upset. Reduce speed if the towed load is not equipped with brakes.

Use the following maximum speed – tow load weight ratios as a guideline:

- 20 mph when weight is less than or equal to the weight of the tractor.
- 10 mph when weight is double the weight of the tractor.

IMPORTANT: Do not tow a load that is more than double the weight of the tractor

KEEP RIDERS OFF MACHINERY

- Riders obstruct the operator’s view; they could be struck by foreign objects or thrown from the machine.
- Never allow children to operate equipment.
- Practice Safe Maintenance
- Understand procedure before doing work. Use proper tools and equipment; refer to

Operator's Manual for additional information.

- Work in a clean, dry area
- Lower the implement to the ground, put the tractor in park, turn off the engine, and remove the key before maintenance.
- Allow implement to cool completely.
- Do not grease or oil implement while it is in operation.
- Inspect all parts. Make sure details are in good condition and installed correctly.
- Remove the buildup of grease, oil, or debris.
- Remove all tools and unused parts from implementation 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 the phone.

WEAR PROTECTIVE EQUIPMENT

- Wear protective clothing and equipment appropriate for the job. Avoid loose-fitting clothing.
- Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- Operating equipment safety requires the full attention of the operator. Avoid wearing radio headphones while operating machinery.

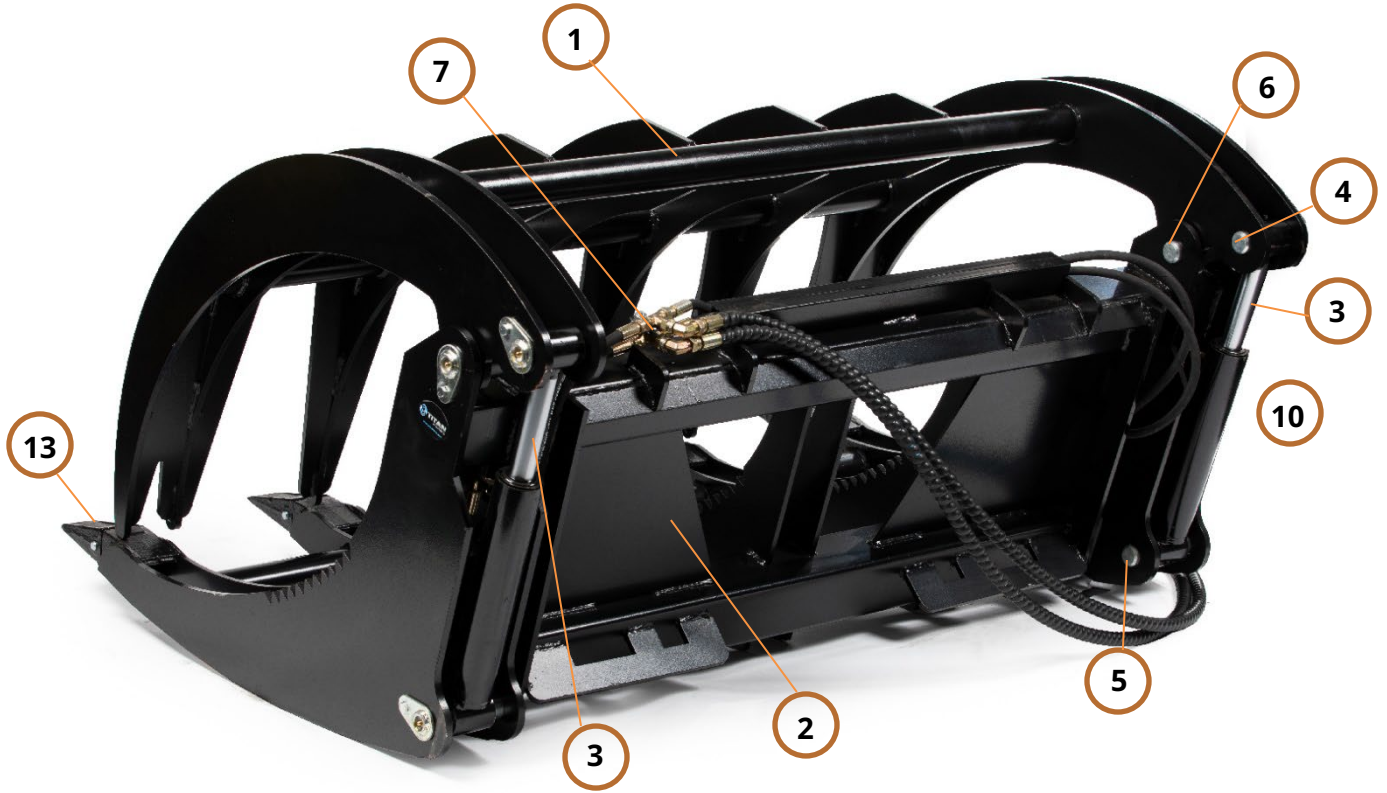
AVOID HIGH-PRESSURE FLUIDS HAZARD

- Escaping fluid under pressure can penetrate the skin causing severe injury.
- Avoid the hazard by relieving pressure before disconnecting hydraulic lines or performing work on the system.
- Ensure 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.
- If an accident occurs, see a doctor immediately. Remember, any fluid injected into the skin must be treated within a few hours, or gangrene may result.

TIRE SAFETY

- Tire changing can be dangerous, and trained personnel should be the only ones using correct tools and equipment.
- 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.
- When removing and installing wheels, use wheel handling equipment adequate for the weight involved.

PARTS DIAGRAM / EXPLODED VIEW



KEY	DESCRIPTION	QTY	KEY	DESCRIPTION	QTY
(1)	TOP JAW	X1	(8)	HOSE A	X1
(2)	FRAME	X1	(9)	HOSE B	X1
(3)	CYLINDER	X2	(10)	HOSE C	X1
(4)	TOP CYLINDER PIN	X2	(11)	HOSE D	X1
(5)	BOTTOM CYLINDER	X2	(12)	HOSE E-FEED/RETURN	X2
(6)	JAW PIN	X2	(13)	TOOTH	X5
(7)	T-FITTING	X2			

SPECIFICATION CHARTS

MODEL	60-IN EXTREME ROOT GRAPPLE RAKE ATTACHMENT
MPN	HD60RAKE
OPENING HEIGHT	50-IN.
OVERALL WIDTH	60-IN.
TEETH LENGTH	35.5-IN.
SIDE THICKNESS	0.5-IN.
PRODUCT WEIGHT	815 LB.

MODEL	72-IN EXTREME ROOT GRAPPLE RAKE ATTACHMENT
MPN	HD72RAKE
OPENING HEIGHT	50-IN.
OVERALL WIDTH	72-IN.
TEETH LENGTH	35.5-IN.
SIDE THICKNESS	0.5-IN.
PRODUCT WEIGHT	970 LB.

MODEL	84-IN EXTREME ROOT GRAPPLE RAKE ATTACHMENT
MPN	HD84RAKE
OPENING HEIGHT	50-IN.
OVERALL WIDTH	84-IN.
TEETH LENGTH	35.5-IN.
SIDE THICKNESS	0.5-IN.
PRODUCT WEIGHT	1,225 LB.

MAINTENANCE

We recommend applying grease after every 8 hours of use to various grease points on the grapple



TEETH REPLACEMENT: Teeth can easily be replaced by removing the pin and inserting another tooth. Contact Titan Customer Service to order additional teeth (MPN: LW80KIT).



ACKNOWLEDGEMENT OF RISK AND RELEASE OF LIABILITY

The use of any equipment, including this one, involves the potential risk of injury. Apart from any warranty claim that might be presented for a claimed defect in material or workmanship of the product, you accept and assume full responsibility for any and all injuries, damages (both economic and non-economic), and losses of any type, which may occur, and you fully and forever release and discharge Titan, its insurers, employees, officers, directors, associates, and agents from any and all claims, demands, damages, rights of action, or causes of action, present or future, whether the same be known or unknown, anticipated, or unanticipated, resulting from or arising out of the use of said equipment.

This equipment must be used with care by capable and competent individuals under supervision, if necessary.

TITAN LIMITED WARRANTY: TERMS, EXCLUSIONS AND LIMITATIONS OF REMEDIES

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