

OPERATOR'S MANUAL

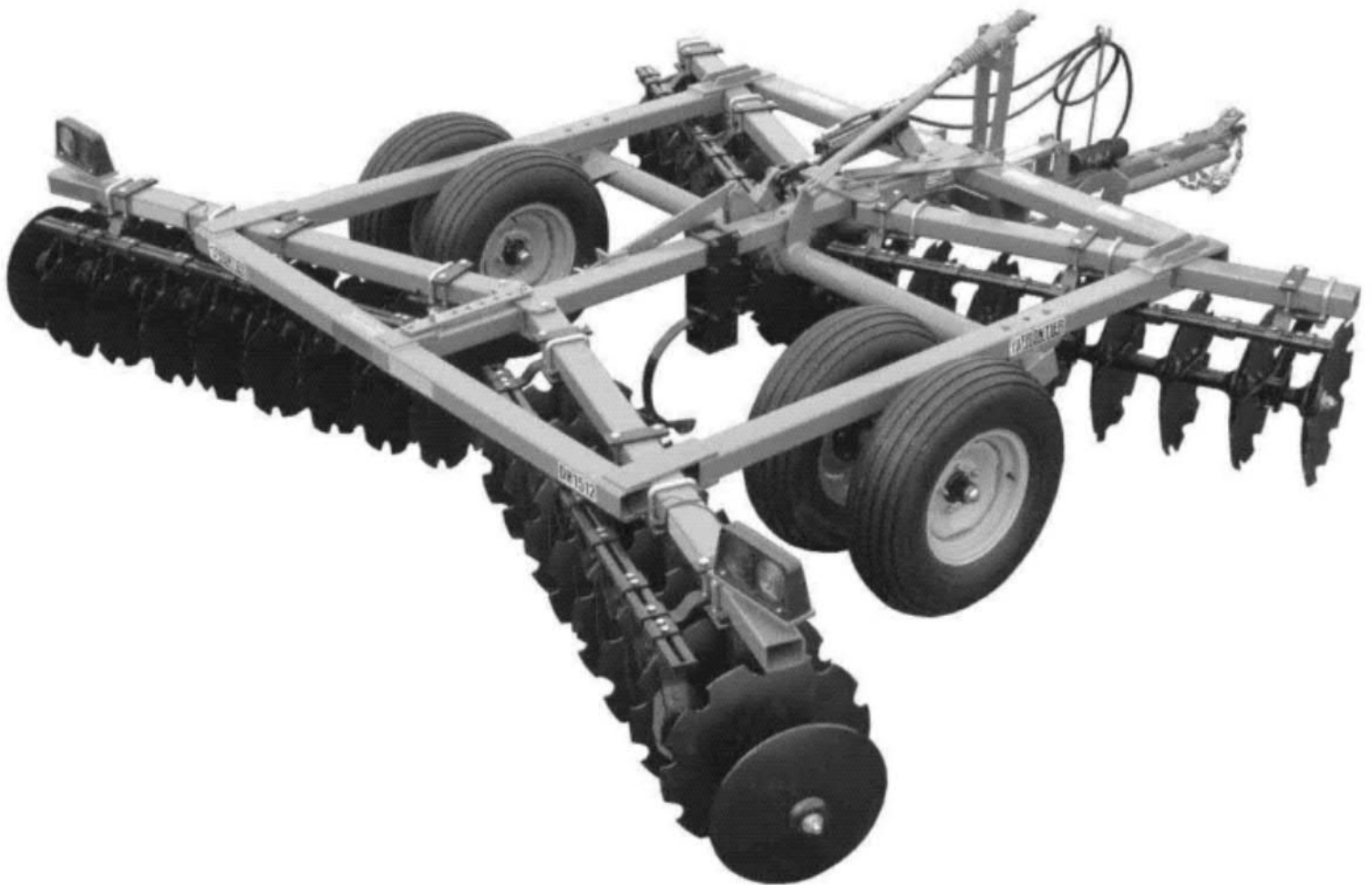
DISK HARROWS

DH1508

DH1510

DH1509

DH1512



FRONTIER
EQUIPMENT

TO THE DEALER:

Assembly and proper installation of this product is the responsibility of the Frontier dealer. Read manual instructions and safety rules. Make sure all items on the Dealer's Pre-Delivery and Delivery Check Lists in the Owner's/Operator's Manual are completed before releasing equipment to the owner.

The dealer must complete the Warranty Registration located on the Frontier website.

TO THE OWNER:

Read this manual before operating your Frontier equipment. The information presented will prepare you to do a better and safer job. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all the adjustment and operating procedures before attempting to operate. Replacement manuals can be obtained from your selling dealer.

The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Observe all safety information in this manual and safety decals on the equipment.

For service, your authorized Frontier dealer has trained mechanics, genuine Frontier service parts, and the necessary tools and equipment to handle all your needs.

Use only genuine Frontier service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model number and serial number of your equipment in the spaces provided:

Model: _____ **Date of Purchase:** _____

Serial Number: (see Safety Decal section for location) _____

Provide this information to your dealer to obtain correct repair parts.

Throughout this manual, the term **IMPORTANT** is used to indicate that failure to observe can cause damage to equipment. The terms **CAUTION, WARNING** and **DANGER** are used in conjunction with the Safety-Alert Symbol, (a triangle with an exclamation mark), to indicate the degree of hazard for items of personal safety.



This Safety-Alert Symbol indicates a hazard and means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**

DANGER

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed.

CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

IMPORTANT NOTE

Indicates that failure to observe can cause damage to equipment.

Indicates helpful information.

Introduction ii

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SPECIFICATIONS

	DH1508	DH1509	DH1510	DH1512
Hitch Type	Drawn (with clevis & jack)	Drawn (with clevis & jack)	Drawn (with clevis & jack)	Drawn (with clevis & jack)
Working Width	8 ft. (2.4 m)	9 ft. 6 in. (2.9 m)	10 ft. 6 in. (3.2 m)	12 ft. (3.7 m)
Blade Spacing	9 or 7.5 in. (23 or 19 cm), or 9-in. front and 7.5-in. back	9 or 7.5 in. (23 or 19 cm), or 9-in. front and 7.5-in. back	9 or 7.5 in. (23 or 19 cm), or 9-in. front and 7.5-in. back	9 or 7.5 in. (23 or 19 cm), or 9-in. front and 7.5-in. back
Tractor HP (MAX)	35 to 55 hp	40 to 65 hp	45 to 75 hp	55 to 85 hp
Shipping Weight	2004 lbs.(910 kg)	2122 lbs.(964 kg)	2582 lbs.(1,174 kg)	3155 lbs.(1,434 kg)
Approximate Operating Weight	1,900 lb. (862 kg)	2,100 lb. (953 kg)	2,500 lb. (1,134 kg)	3,100 lb. (1,406 kg)
Number of Blades	20 w/9" Spacing 24 w/7.5" Spacing 22 w/9"(Front),7.5"(Rear)	24 w/9" Spacing 28 w/7.5" Spacing 26 w/9"(Front),7.5"(Rear)	28 w/9" Spacing 32 w/7.5" Spacing 30 w/9"(Front),7.5"(Rear)	32 w/9" Spacing 36 w/7.5" Spacing 34 w/9"(Front),7.5"(Rear)
Blade Size	20" or 22" (51 or 56 cm)	20" or 22" (51 or 56 cm)	20" or 22" (51 or 56 cm)	20" or 22" (51 or 56 cm)
Blade Thickness	20"-0.1 in. (3.5 mm), 22"-0.2 in. (4 mm)	20"-0.1 in. (3.5 mm), 22"-0.2 in. (4 mm)	20"-0.1 in. (3.5 mm), 22"-0.2 in. (4 mm)	20"-0.1 in. (3.5 mm), 22"-0.2 in. (4 mm)
Blade Type	Notched, smooth, or mixed	Notched, smooth, or mixed	Notched, smooth, or mixed	Notched, smooth, or mixed
Frame Tubing	3 in. square(7.6 cm) square 5x3 in. (12.7x7.6 cm)	3 in. square(7.6 cm) square 5x3 in. (12.7x7.6 cm)	4x3 in. (10.2x7.6 cm) and 5x3 in. (12.7x7.6 cm)	4x3 in. (10.2x7.6 cm) and 5x3 in. (12.7x7.6 cm)
Gang Tubing	3x3 in. (7.6x7.6 cm), 3/16 in. (4.8 mm) thick	3x3 in. (7.6x7.6 cm), 3/16 in. (4.8 mm) thick	4x3 in. (10.2x7.6 cm), 3/16 in. (4.8 mm) thick	4x3 in. (10.2x7.6 cm), 3/16 in. (4.8 mm) thick
Front Gang Angles	9°,13°, 14°, 16°, 19°, 20°, 23°, 24° and 26°	9°,13°, 14°, 16°, 19°, 20°, 23°, 24° and 26°	9°, 11°, 12°, 14°, 15°, 16°, 19°, 22°, and 25°	9°, 11°, 12°, 14°, 15°, 16°, 19°, 22°, and 25°
Rear Gang Angles	8°, 11°, 13°, 15°, 16°, 19°, 21°, 23° and 27°	8°, 11°, 13°, 15°, 16°, 19°, 21°, 23° and 27°	5°, 8°, 9°, 11°, 12°, 14°, 15°, 17°, 20° and 23°	5°, 8°, 9°, 11°, 12°, 14°, 15°, 17°, 20° and 23°
Bearing Hanger	2x4-in. (5.1x10.2 cm) steel tube, .75-in. (19 mm) U-bolt mountings (for 3x3 tube)	2x4-in. (5.1x10.2 cm) steel tube, .75-in. (19 mm) U-bolt mountings (for 3x3 tube)	2x4-in. (5.1x10.2 cm) steel tube, .75-in. (19 mm) U-bolt mountings (for 4x3 tube)	2x4-in. (5.1x10.2 cm) steel tube, .75-in. (19 mm) U-bolt mountings (for 4x3 tube)
Bearing Type	Sealed or greaseable	Sealed or greaseable	Sealed or greaseable	Sealed or greaseable
Gang Axle	1.125 in. (28.6 mm) square	1.125 in. (28.6 mm) square	1.125 in. (28.6 mm) square	1.125 in. (28.6 mm) square
Hydraulic cylinder and hoses	Standard	Standard	Standard	Standard
Transport safety chain	Standard	Standard	Standard	Standard
Middle balk breaker	Optional	Optional	Optional	Optional
Adjustable blade scrapers	Optional	Optional	Optional	Optional
Furrow filler	Optional	Optional	Optional	Optional
Furrow filler blade scraper	Optional	Optional	Optional	Optional
Dual Wheels	N/A	N/A	Optional	Optional
Transport Lights	N/A	N/A	N/A	Standard
Warranty	1 year	1 year	1 year	1 year
Apprx. set up Time	4 Hrs	4 Hrs	4 Hrs	4 Hrs

GENERAL INFORMATION

The purpose of this manual is to assist you in operating and maintaining your Disk Harrow. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance.

These instructions have been compiled from field experience and engineering data. Some information may be general

in nature, due to unknown and varying operating conditions. However, through experience and these instructions, you should be able to develop procedures suitable to your particular situation.

The illustrations and data used in this manual were current at the time of printing. However, due to possible inline production changes, your machine may

vary slightly in detail. We reserve the right to redesign and change the machines as may be necessary without notification.

Throughout this manual, references are made to right and left direction. These are determined by standing behind the tractor facing the direction of forward travel.

Specifications 1

SAFETY & INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH
Replace Decals Immediately If Damaged!

	⚠ WARNING
CRUSHING AND PINCHING HAZARD	
<ul style="list-style-type: none"> • 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 tractor and implement. • Operate tractor controls from tractor seat only. • Do not stand between tractor and implement when tractor is in gear. • Make sure parking brake is engaged before going between tractor and implement. • Stand clear of machine when in operation or being raised or lowered. 	
<small>15196A</small>	

1

STL 5194A

	⚠ WARNING
FALLING BLADE HAZARD	
<ul style="list-style-type: none"> • Can cause serious injury or death. • Keep hands and feet from under raised blade. • Always put disc in the lowered position and check gangs to prevent rolling when disconnecting disc gangs for maintenance or repair. 	
<small>15194B</small>	

2

STL15194B

⚠ WARNING
TO AVOID INJURY INSTALL CYLINDER LOCKUP(S) BEFORE TRANSPORTING OR SERVICING MACHINE
<small>15193</small>


3

STL15362

<small>PRODUCT IDENTIFICATION NUMBER</small>
FRONTIER
<small>15194C</small>

4

Serial Number Plate

	⚠ WARNING
TO PREVENT SERIOUS INJURY OR DEATH:	
<ul style="list-style-type: none"> • 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, contact your dealer. 	
<small>15194C</small>	

5

STL15194C

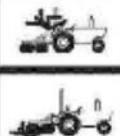
⚠ WARNING	
	<ul style="list-style-type: none"> • Avoid serious injury from injection of pressurized hydraulic fluid. • Always relieve pressure before performing service or maintenance on any hydraulic components. Refer to tractor and implement Operator's Manual. • Do not use hand to search for leaks. Use cardboard or other shields.
<small>15194D</small>	

6

STL15364


STL15194D

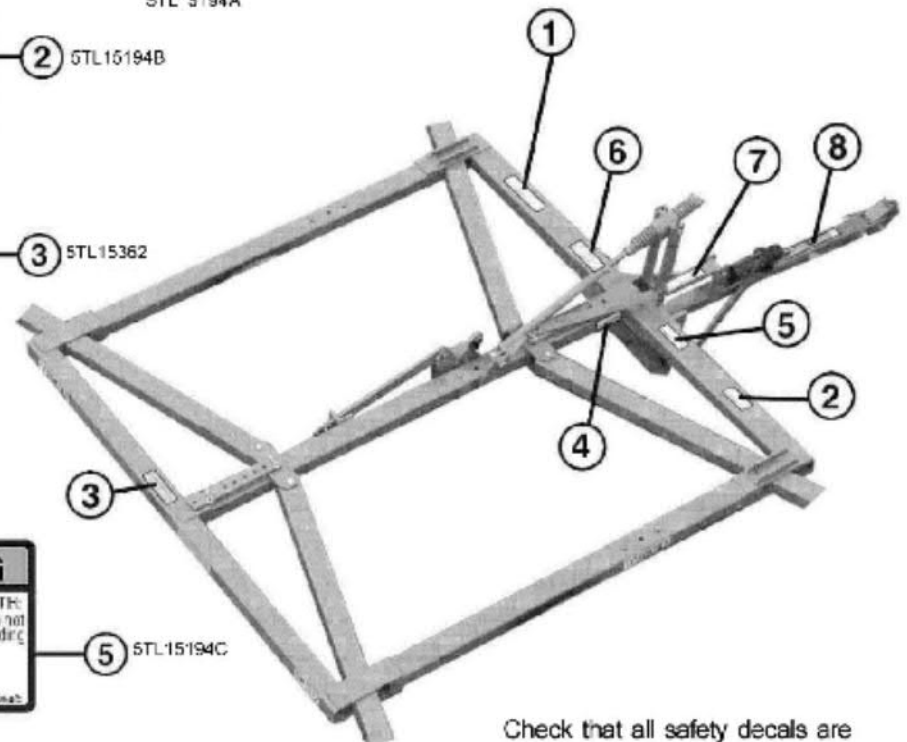
7

⚠ WARNING	
	<ul style="list-style-type: none"> • DO NOT allow others to ride on the machine or tractor. • Park or block disc so it will not roll when disconnecting from tractor drawbar. • Never go underneath equipment (covered to the ground or raised) unless it is properly blocked and secured. • Never place any part of the body underneath equipment or between movable parts even when the engine has been turned off. • Be sure that everyone is standing clear before operating the machine. • DO NOT operate or transport at high speeds. • DO NOT operate or transport on steep slopes.
<small>15194E</small>	

STL15363

8

⚠ WARNING		<ul style="list-style-type: none"> • Do not exceed this implement's maximum transport speed of 32 km/h (20 mph). • Exceeding this speed may result in loss of control during transport or braking and serious injury or death. 	<ul style="list-style-type: none"> • Transport only with a properly ballasted tractor and a properly attached safety tow chain. • Do not transport with a motor vehicle. • Reduce speed and use additional caution when on inclines, towing under adverse surface conditions, and turning.
<small>15194F</small>			



Check that all safety decals are installed and in good condition. Replace if decals are worn or damaged. Replacement Part numbers are listed here.

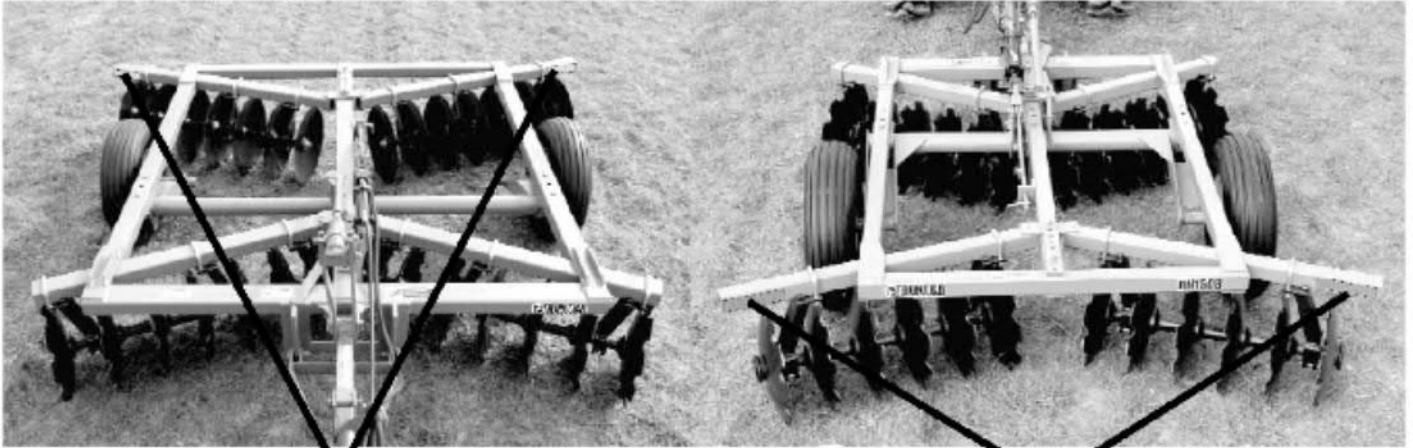
SAFETY REFLECTOR DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH

Replace Decals Immediately If Damaged!

DH1508, DH1509 and DH1510 Reflector Decals

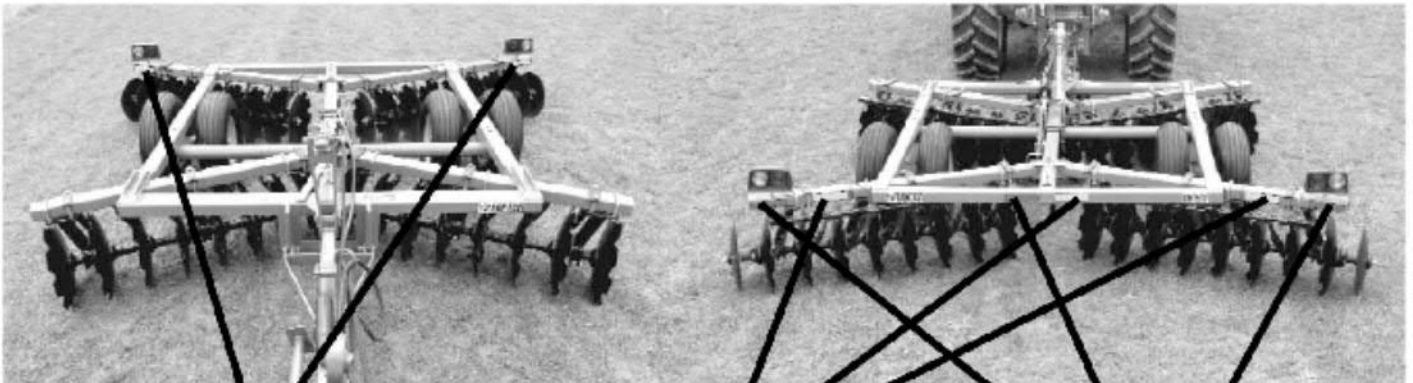


9" YELLOW REFLECTORS
5TL15200

9" RED REFLECTORS
5TL15199

Check that all reflector decals are installed
and in good condition. Replace if decals are
worn or damaged.

DH1512 Reflector Decals



9" YELLOW REFLECTORS
5TL15200

9" ORANGE REFLECTOR
5TL15361

9" RED REFLECTORS
5TL15199



SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgement, and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

It has been said "The best safety device is an informed, careful operator." We ask you to be that kind of operator.

TRAINING

- Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals are available from selling dealer.) Failure to follow instructions or safety rules can result in serious injury or death.
- If you do not understand any part of this manual and need assistance, see your dealer.
- Operators must be instructed in and be capable of the safe operation of the equipment, its attachments, and all controls. Do not allow anyone to operate this equipment without proper instructions.
- Never allow children or untrained persons to operate equipment.
- Train all new personnel and review instruction's frequently with existing workers. A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.
- Keep hands and body away from pressurized lines. Use paper or cardboard, not hands or other body parts to check for leaks. Wear safety

goggles. Hydraulic fluid under pressure can easily penetrate skin and will cause serious injury or death.

- Make sure that all operating and service personnel know that if hydraulic fluid penetrates skin, it must be surgically removed as soon as possible by a doctor familiar with this form of injury or gangrene, serious injury, or death will result.

CONTACT A PHYSICIAN IMMEDIATELY IF FLUID ENTERS SKIN OR EYES. DO NOT DELAY.

PREPARATION

- Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.
- Make sure attachment is properly secured, adjusted, and in good operating condition.
- Air in hydraulic systems can cause erratic operation and allows loads or equipment components to drop unexpectedly. When connecting equipment or hoses or performing any hydraulic maintenance, purge any air in hydraulic system by operating all hydraulic functions several times. Do this before putting into service or allowing anyone to approach the equipment.
- Route hydraulic hoses carefully to prevent damage. Hoses must not be twisted, bent sharply, kinked, frayed, pinched, or come into contact with any moving parts. Operate moveable components through full operational range to check clearances. Replace any damaged hose immediately.
- Do not connect a low-pressure hydraulic hose into a high-pressure system—it will burst the hose. Do not use a high-pressure hose in place of a low-pressure hose—it is possible to rupture the valve.



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SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

PREPARATION (cont'd.)

- Power unit must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in "locked up" position at all times.
- Do not exceed this implements transport speed of 20 mph (32 kmh). Exceeding this speed may cause loss of control during transport or braking and serious injury or death.
- Transport only with a properly ballasted tractor and a properly attached safety tow chain.
- Do not transport with a motor vehicle.
- Reduce speed and use additional caution when on inclines, towing when on adverse surface conditions, and turning.

TRANSPORTATION

- Always comply with all state and local laws governing highway safety and lighting and marking requirements.
- Never allow riders on power unit or attachment.
- Do not operate or transport on steep slopes.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Do not operate or transport equipment while under the influence of alcohol or drugs. Consult your doctor about operating this machine while taking prescription medications.

OPERATION

- Never go underneath equipment in the raised or transport position unless the transport lock is in place. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off.
- Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement

of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.

- Always comply with all state and local laws governing highway safety and lighting and marking requirements.
- Do not exceed this implements transport speed of 20 mph (32 kmh). Exceeding this speed may cause loss of control during transport or braking and serious injury or death.
- Transport only with a properly ballasted tractor and a properly attached safety tow chain.
- Do not transport with a motor vehicle.
- Reduce speed and use additional caution when on inclines, towing when on adverse surface conditions, and turning.
- Operate only in daylight or good artificial light.
- Keep bystanders away from equipment.
- Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.
- Power unit must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in "locked up" position at all times.
- Never allow riders on power unit or attachment.
- Always sit in power unit seat when operating controls or starting engine. Securely fasten seat belt, place transmission in neutral, engage brake, and ensure all other controls are disengaged before starting power unit engine.
- Look down and to the rear and make sure area is clear before operating in reverse.
- Use extreme care when working close to fences, ditches, other obstructions, or on hillsides.



SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

OPERATION(cont'd.)

- Do not operate or transport on steep slopes.
- Do not stop, start, or change directions suddenly on slopes. Always operate down slopes; never across the face.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Keep alert and watch the front as well as the rear when operating.
- Always relieve the pressure on the hydraulic lift system before performing service or maintenance on any hydraulic components. Failure to do so may cause serious injury from injection of pressurized hydraulic fluid.
- Air in hydraulic systems can cause erratic operation and allows loads or equipment components to drop unexpectedly. When connecting equipment or hoses or performing any hydraulic maintenance, purge any air in hydraulic system by operating all hydraulic functions several times. Do this before putting into service or allowing anyone to approach the equipment.
- Do not use hands to search for leaks on any hydraulic components. Use cardboard or similar material. Failure to do so may cause serious injury from injection of pressurized hydraulic fluid.
- When making gang adjustments, be careful to keep hands and feet clear of sliding parts and possible pinch points.
- Stop power unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.
- Before leaving operator's seat, lower the lift carriage and put attachment on the ground. Engage brake, stop engine, remove key, and remove seat belt.

MAINTENANCE

- Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.
- Never go underneath equipment (lowered to the ground or raised) unless it is properly blocked and secured. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.
- When performing maintenance or repairs make sure the equipment is in the lowered position and both the mainframe and gangs are properly blocked and secured to prevent rolling. Failure to do so can cause serious injury or death.
- Make sure attachment is properly secured, adjusted, and in good operating condition.
- Before leaving operator's seat, lower the lift carriage and put attachment on the ground. Engage brake, stop engine, remove key, and remove seat belt.
- Never perform service or maintenance with engine running.
- Keep hands and body away from pressurized lines. Use paper or cardboard, not hands or other body parts to check for leaks. Wear safety goggles. Hydraulic fluid under pressure can easily penetrate skin and will cause serious injury or death.
- Air in hydraulic systems can cause erratic operation and allows loads or equipment com

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