

456
Silage Special
Round Baler
(Serial No. 112701-)

John Deere Ottumwa Works
OME92590 Issue A8
(This manual replaces OME91995 L6)

LITHO IN U.S.A.
ENGLISH

Introduction

READ THIS MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage. This manual and safety signs on your machine may also be available in other languages. (See your John Deere dealer to order.)

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

MEASUREMENTS in this manual are given in both metric and customary U.S. unit equivalents. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT-HAND AND LEFT-HAND sides are determined by facing in the direction the implement will travel when going forward.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Specification section. Accurately record all the numbers to help in tracing the machine should

it be stolen. Your dealer also needs these numbers when you order parts. File the identification numbers in a secure place off the machine.

WARRANTY is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate which you should have received from your dealer.

This warranty provides you the assurance that John Deere will back its products where defects appear within the warranty period. In some circumstances, John Deere also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void and field improvements may be denied. Setting fuel delivery above specifications or otherwise overpowering machines will result in such action.

THE TIRE MANUFACTURER'S warranty applicable to your machine may not apply outside the U.S.



456 Silage Special Round Baler

-UN-16DEC96

E40221

EX,456S,IFC -19-22SEP97

Safety

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



DX,ALERT -19-03MAR93

T81389 -UN-07DEC68

UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



DX,SIGNAL -19-03MAR93

TS187 -19-30SEP88

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.



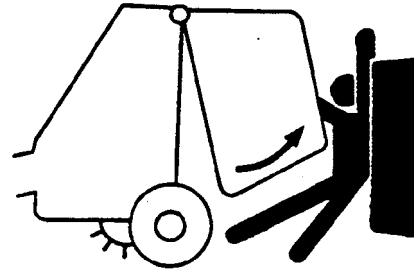
DX,READ -19-03MAR93

TS201 -UN-23AUG88



PROTECT BYSTANDERS

To prevent crushing injury be sure bystanders stand clear before operating gate and unloading bale.



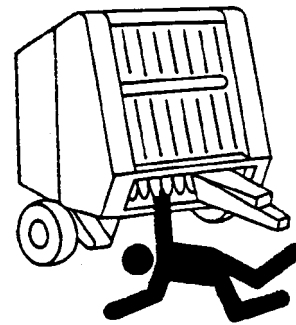
EX.435C.A -19-01SEP88

E32162 -UN-12SEP88

OPERATE BALER SAFELY

To avoid injury or death by being pulled into the machine:

- DO NOT attempt to feed crop or twine into baler or unplug feed area WHILE BALER IS RUNNING. The baler feeds material faster than you can release it.
- Disengage PTO and shut off engine.
- Stand clear of baler at all times when machine is operating.



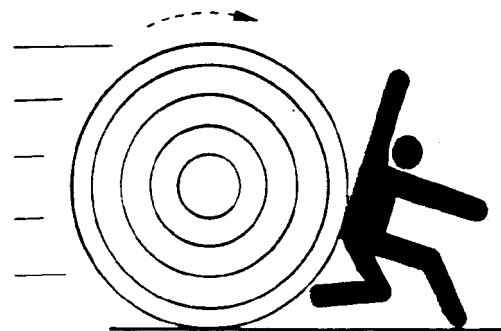
EX.435C.B -19-01SEP88

E32161 -UN-12SEP88

OPERATE SAFELY ON SLOPES

Be especially careful when operating on hillsides. The baler may tip sideways if it strikes a hole, ditch, or other irregularity.

To prevent injury or damage from a rolling bale, discharge bales on level ground or in such a manner that the bale will not roll.



EX.435C.C -19-14JUL92

E36866 -UN-30APR92



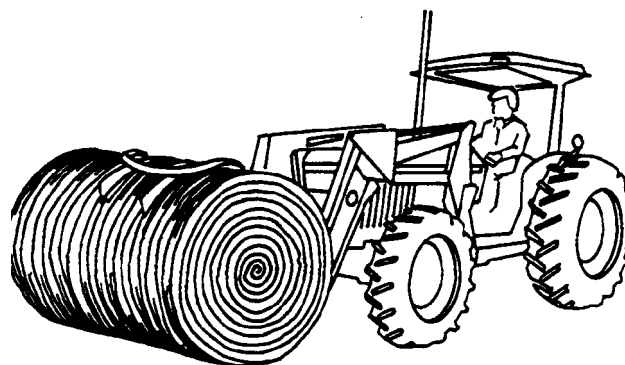
HANDLE ROUND BALES SAFELY

To help prevent personal injury, do not handle round bales without approved John Deere Round Bale Handling attachments.

Improper use of loaders to handle round bales can result in serious injury or death to the tractor/loader operator. This could be caused by the bale rolling back down the loader into the operator's station.

To attain optimum stability and visibility:

- Do not handle bales that exceed the bale weight limitations of the loader.
- Carry the bale slowly and as low as possible to the ground.
- Operate the loader controls smoothly, avoiding jerky operation.
- When handling round bales on a slope, always approach the bale with the tractor facing uphill.
- Never use the tractor/loader to stop a rolling bale.



-UN-06OCT88

W7718

EX,435C,D -19-01SEP88

KEEP RIDERS OFF MACHINE

Keep riders off.

Riders are subject to injury such as being struck by foreign objects and being thrown off of the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.



-UN-23AUG88

TS249

EX,945IC,H -19-13FEB97



PREPARE FOR EMERGENCIES

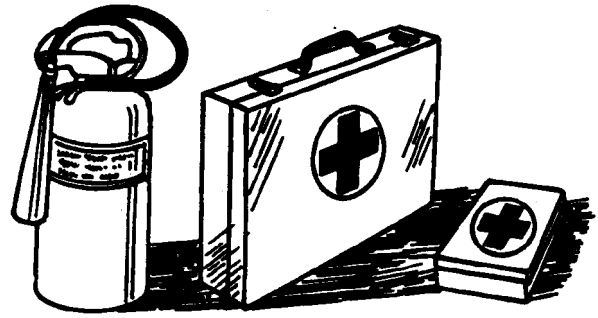
Be prepared if a fire starts.

1. Eject bale immediately.
2. Move tractor and baler upwind 9 m (30 ft) away from flammable material.
3. Raise gate and engage gate lock valve.
4. Use fire extinguisher or other water supply to put out fire.

- A 9.5 L (2-1/2 gal) pressurized-water fire extinguisher is recommended. See manufacturer's recommendation for inspection and maintenance.

Keep first aid kit handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



-UN-23AUG68

TS291

EX,435C,J -19-25OCT96



FIRE PREVENTION

To reduce the risk of fire, follow these guidelines, especially in dry crop conditions:

- Equip the baler with a water-type fire extinguisher. Large capacity water fire extinguishers are recommended because application of water can cool hot parts to prevent a fire. (See Attachments section.)
- Keep foreign material (crop, chaff, twine, net wrap material, etc.) from building up on the machine near potentially hot areas, such as bearings on ends of baler rolls and slip clutch. Remove this buildup as part of the regular service operations.
- Avoid high pressure power-washing adjacent to the bearings on ends of baler rolls to prevent damaging seals.
- Check bearings on ends of baler rolls regularly for early signs of failure replace as necessary. (See Lubrication and Maintenance section or see your John Deere dealer.)
- If noticeable changes in machine performance occur which might indicate a part is beginning to fail, stop baling immediately and investigate the cause of any sounds, smells, or sights which are unusual.
- Promptly eject bales after they have been tied or wrapped. Do not use the baler to transport bales from the field. Do not bring a baler, with a bale inside it, into a building. Never leave a baler unattended with a bale inside the chamber.
- Use extreme care if it is necessary to park a baler in a field of dry crop or stubble. Whenever possible, park baler on bare ground or in an area surrounded by bare ground. Before leaving a baler which has been operating, verify there are no areas which are hot enough to start a fire. Do not leave the baler unattended near bales which have been baled wet, because spontaneous combustion can occur.
- If service operations require using a welder, cutting torch or grinder on the baler, refer to Fire Prevention in Service—Baler section for guidelines which may prove useful in preventing a fire.
- Use extreme care when smoking around the baler.





IN CASE OF FIRE

Stop baling immediately at the first sign of trouble. This may be a scorched smell, an unusual sound, or the sight of smoke or flame.

Do not risk personal injury. If a fire is too far advanced, do not try to extinguish it.

If you can safely extinguish the fire, proceed carefully and follow these guidelines:

- Position the tractor upwind from the baler to avoid the fire from overtaking the tractor.
- Open the baler gate to eject any crop material from the bale chamber, and drive away from this material.
- Use a fire extinguisher or other source to spray water at the base of the flame, and to cool adjacent parts. Do not position yourself under an open baler gate. It may fall if baler is on fire.



EX,566C,O -19-05SEP97

TS227 -UN-23AUG88

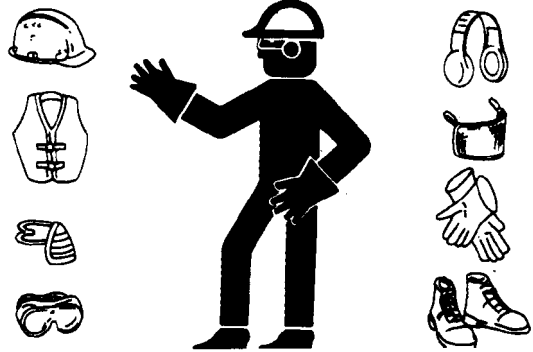
WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



DX,WEAR -19-10SEP90

TS206 -UN-23AUG88



HANDLE CHEMICAL PRODUCTS SAFELY

Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with John Deere equipment include such items as lubricants, coolants, paints, and adhesives.

A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

Check the MSDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

(See your John Deere dealer for MSDS's on chemical products used with John Deere equipment.)



TS1132 -UN-26NOV90

DX,MSDS,NA -19-03MAR93

STAY CLEAR OF ROTATING DRIVELINES

Entanglement in rotating driveline can cause serious injury or death.

Keep tractor master shield and driveline shields in place at all times. Make sure rotating shields turn freely.

Wear close fitting clothing. Stop the engine and be sure PTO driveline is stopped before making adjustments, connections, or cleaning out PTO driven equipment.



TS1644 -UN-22AUG95

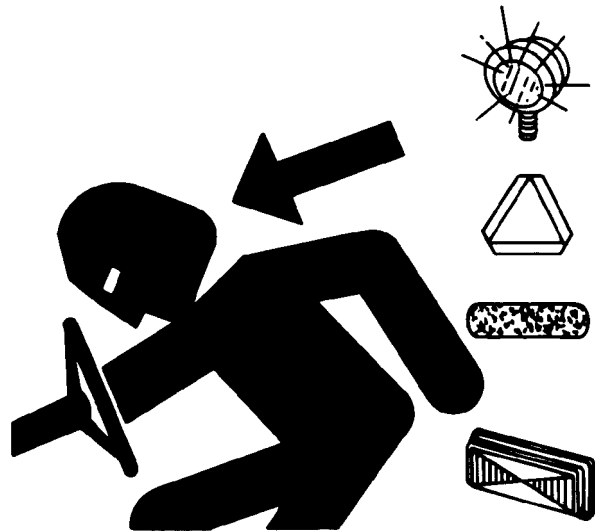
DX,PTO -19-12SEP95



USE SAFETY LIGHTS AND DEVICES

Prevent collisions between other road users, slow moving tractors with attachments or towed equipment, and self-propelled machines on public roads. Frequently check for traffic from the rear, especially in turns, and use hand signals or turn signal lights.

Use headlights, flashing warning lights, and turn signals day and night. Follow local regulations for equipment lighting and marking. Keep lighting and marking visible and in good working order. Replace or repair lighting and marking that has been damaged or lost. An implement safety lighting kit is available from your John Deere dealer.



DX,FLASH -19-12SEP95

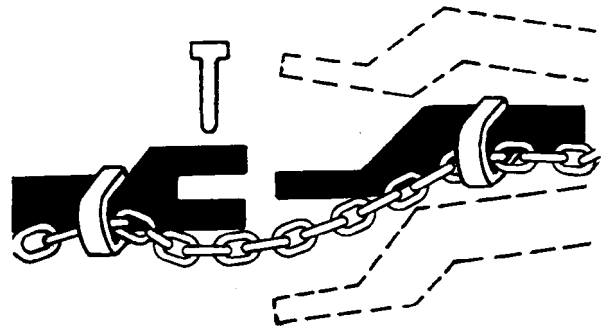
TSS951 -UN-12APR90

USE A SAFETY CHAIN

A safety chain will help control drawn equipment should it accidentally separate from the drawbar.

Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning.

See your John Deere dealer for a chain with a strength rating equal to or greater than the gross weight of the towed machine. Do not use safety chain for towing.



DX,CHAIN -19-03MAR93

TSS217 -UN-23AUG88



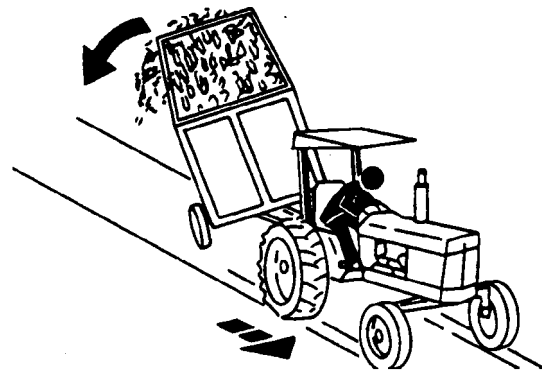
TOW LOADS SAFELY

Stopping distance increases with speed and weight of towed loads, and on slopes. Towed loads with or without brakes that are too heavy for the tractor or are towed too fast can cause loss of control. Consider the total weight of the equipment and its load.

Observe these recommended maximum road speeds, or local speed limits which may be lower:

- If towed equipment does not have brakes, do not travel more than 32 km/h (20 mph) and do not tow loads more than 1.5 times the tractor weight.
- If towed equipment has brakes, do not travel more than 40 km/h (25 mph) and do not tow loads more than 4.5 times the tractor weight.

Ensure the load does not exceed the recommended weight ratio. Add ballast to recommended maximum for tractor, lighten the load, or get a heavier towing unit. The tractor must be heavy and powerful enough with adequate braking power for the towed load. Use additional caution when towing loads under adverse surface conditions, when turning, and on inclines.



TS216 -UN-23AUG68

DX,TOW

-19-02OCT95



PRACTICE SAFE MAINTENANCE

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

Disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.



DX,SERV -19-03MAR93

-UN-23AUG88

TS218

REMOVE PAINT BEFORE WELDING OR HEATING

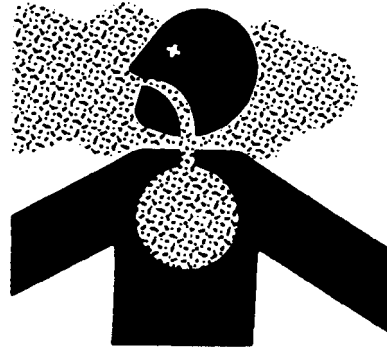
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



DX,PAINT -19-03MAR93

-UN-23AUG88

TS220



AVOID HEATING NEAR PRESSURIZED FLUID LINES

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area.



DX,TORCH -19-03MAR93

TS953 -UN-15MAY90

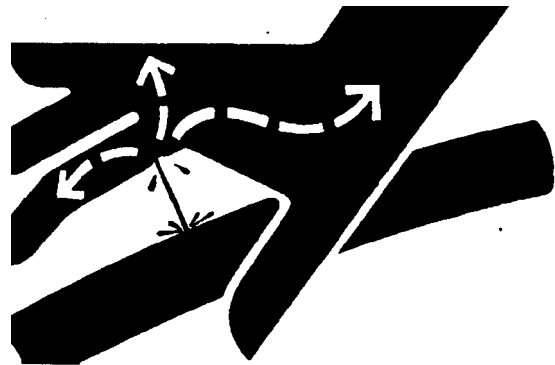
AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.



DX,FLUID -19-03MAR93

X9811 -UN-23AUG88



DISPOSE OF WASTE PROPERLY

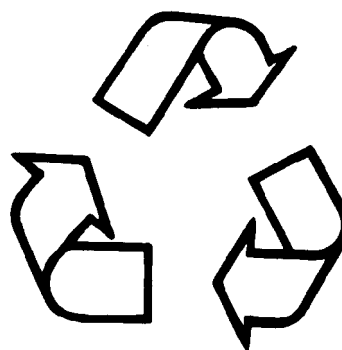
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your John Deere dealer.



TS1133 -UN-26NOV90

DX,DRAIN -19-03MAR93

John Deere Round Baler Safety Features

7 Rear gate lockout secures gate in open position for access to inside of bale chamber.

1 Shielded drives/protection from drive components

a Fully shielded power take-off

b Hinged shielding over slip clutch covers rotating input shaft. Provides easy service access.

c Full-length doors on both sides of baler cover drive components. Mechanical latch makes opening and closing convenient for service access.

2 Fire extinguisher mounting location to accommodate installation of extinguisher where use conditions dictate.

3 Auto-lock/free motion indexing collar on PTO yoke for easier handling of PTO shaft and connection. Accommodates one person hook-up.

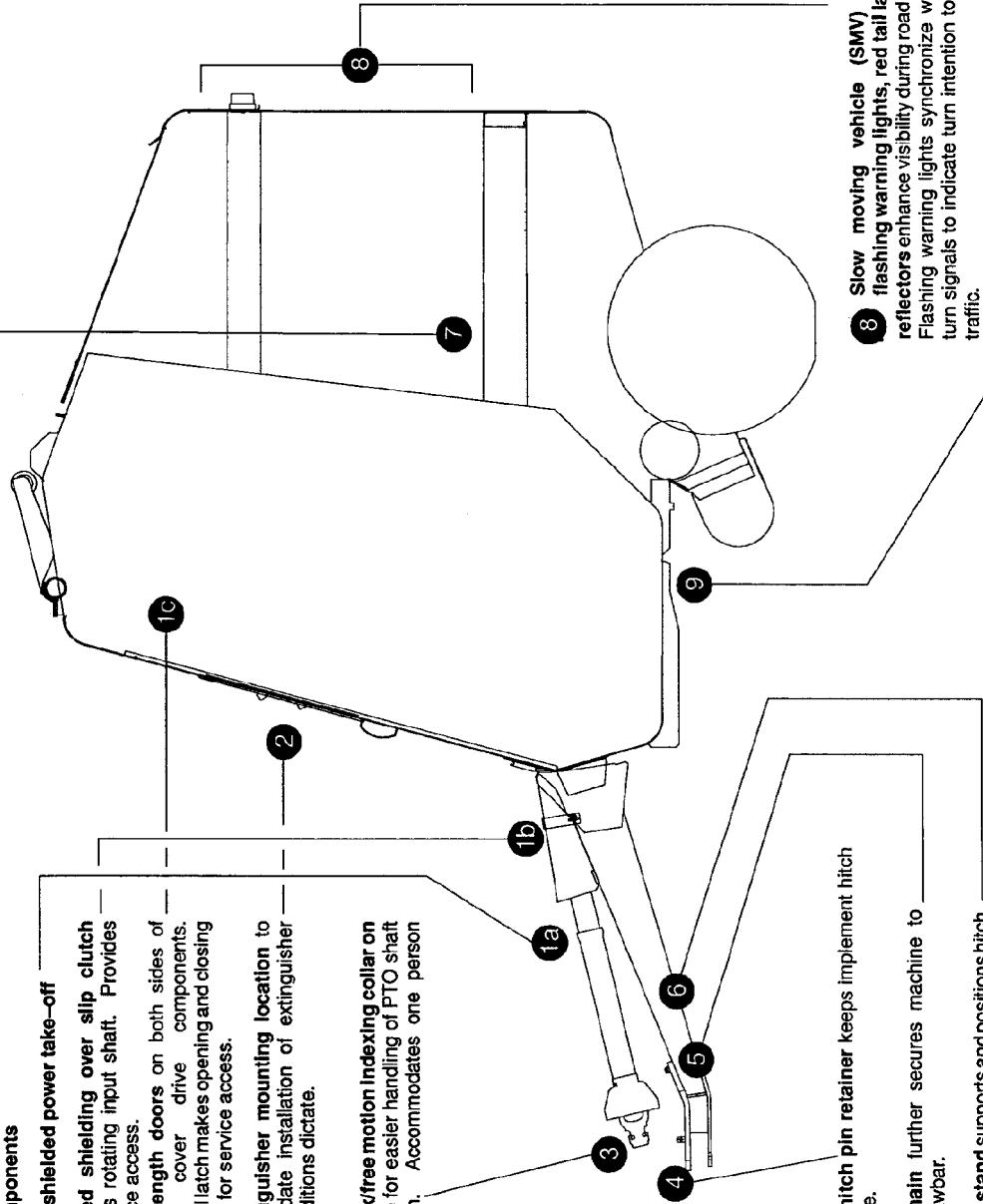
4 Drawbar hitch pin retainer keeps implement hitch pin in place.

5 Safety chain further secures machine to tractor drawbar.

6 Hitch jack stand supports and positions hitch for hook-up and removal.

8 Slow moving vehicle (SMV) emblem, flashing warning lights, red tail lamps and reflectors enhance visibility during road transport. Flashing warning lights synchronize with tractor turn signals to indicate turn intention to vehicular traffic.

9 Rock guard on Mega Tooth models deflects objects thrown toward tractor operator station.



Please remember, the operator is the key safety feature of any machine.



Safety Signs



Front Frame

E41725 -UN-11NOV96



Two Locations

E39573 -19-13NOV95

EX,466SC,A1 -19-02SEP97



! WARNING

AVOID INJURY FROM THROWN OBJECTS

- Keep curtains in place.
- Do not operate near bystanders.

E39245 -19-12JUN96

Mega Pickup Only



E41808 -JUN-17DEC96

PTO Cover



CAUTION

**Operate only with
540 rpm PTO**

E39575 -19-13NOV95



! DANGER

Entanglement in rotating driveline can cause serious injury or death.

Keep all shields in place. Avoid contact with rotating parts.

E39574 -19-13NOV95

EX,446C,E -19-16DEC96

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