Massey Ferguson®

9895 ROTARY COMBINE

WORKSHOP SERVICE MANUAL

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9895 Combine

WORKSHOP SERVICE MANUAL 4283043M1

01 - General Information

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GENERAL INFORMATION

SAFETY ALERT SYMBOL

FIG. 1: This is the safety alert symbol. This symbol stands for ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! Look for this symbol, both in this manual and on safety decals on the combine. This symbol will direct you to information that includes your personal safety and the personal safety of others.



FIG. 1

SIGNAL WORDS

FIG. 2: The words DANGER, WARNING, or CAUTION are used with the safety alert symbol. Learn to know these safety alert symbols, and follow the given recommendations, precautions, and safe procedures.



DANGER: Indicates an immediate hazardous situation that, if not avoided, will result in DEATH OR VERY SERIOUS INJURY.



WARNING: Indicates a potentially hazardous situation that, if not avoided, can result in DEATH OR SERIOUS INJURY.



CAUTION: Indicates a potentially hazardous situation that, if not avoided, can result in a MINOR INJURY.

Replace any DANGER, WARNING, CAUTION, or instruction decal that can not be read or is missing. The location and part number of these decals is shown later in this section of the manual.

IMPORTANT: The word IMPORTANT is used to show special instructions or procedures which, if not followed can result in damage to, or destruction of the machine, process, or the surroundings.

NOTE: The word NOTE is used to indicate points of special interest for more efficient and easier repair or operation.



FIG. 2

FIG. 3: Read and understand this manual and the manual for all attachments before operating the combine.

Learn how to operate the combine and how to use the controls properly.

Do not operate the combine without instruction and training.

For your personal safety and the personal safety of others, follow all safety precautions and instructions found in the manual and on decals fastened to the combine and the attachments.

Personal injury or death can result if these precautions are not followed.

FIG. 4: Be prepared for an emergency. Always carry one or more suitable fire extinguishers - ABC rating, dry chemical, 2.2 kg (5 lb). Check fire extinguishers regularly to make sure extinguishers are properly charged and in operating condition.

Mounting a fire extinguisher near the cab and a fire extinguisher near the engine compartment is a recommendation.

To reduce the risk of fire, frequently remove crop material from the combine and engine platform and check for components becoming too hot.

Keep a first aid kit close for treatment of minor cuts and scratches.

FIG. 5: Wear close fitting clothing and personal protection equipment correct for operating or doing lubrication and maintenance on the combine. Tie up long hair to prevent the hair from becoming entangled in the moving parts.



WARNING: An operator must not use alcohol or drugs which can affect alertness or coordination. An operator taking prescription or over the counter drugs needs medical advice on whether or not the operator can properly operate machines.

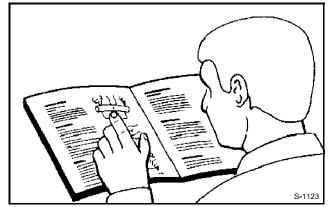


FIG. 3

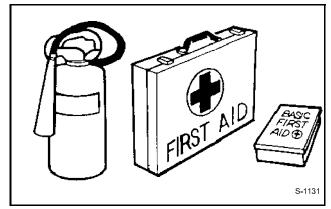


FIG. 4

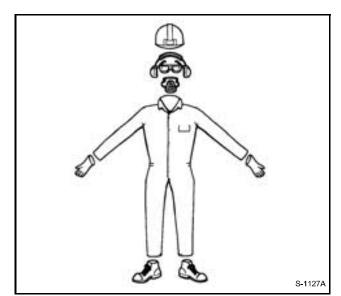


FIG. 5

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FIG. 6: Face the ladder and use the handrails when getting on or off the combine.



FIG. 6

FIG. 7: Never operate the engine in a closed building unless exhaust is vented outside.

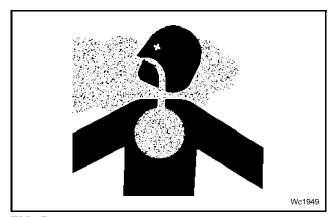


FIG. 7

FIG. 8: Make sure that all shields, guards, and access doors are in location and properly closed before starting the engine.

Start the engine from the operator seat only. Be sure that the transmission is in neutral and the header, separator, and unloader clutches are disengaged.

Be sure that every person is clear of the combine before starting the engine.



FIG. 8

FIG. 9: Always wear the seat belt when the combine is moving. If another person is riding in the instructor seat that person must wear the seat belt. Seat belts must be worn fitted snugly around the hips and not twisted.

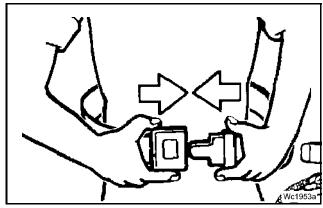


FIG. 9

FIG. 10: Never permit any person to be on any part of the combine or the attachments except in the operator seat or the instructor seat when the engine is running.

Do not get on or off the combine while the combine is moving.

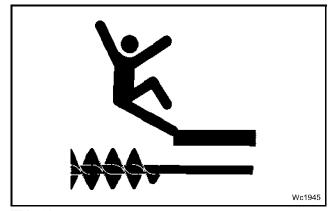


FIG. 10

FIG. 11: Prevent contact with electrical power lines. Always put the grain tank unloader tube in the transport position and lower radio aerial before moving the combine near electrical wires. Contact with electrical power lines can cause electrical shock, very serious injury, or death.

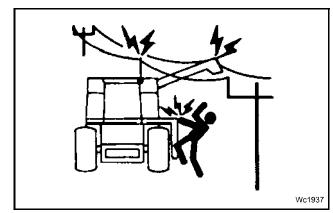


FIG. 11

FIG. 12: Use extra caution and reduce speed when operating on hill sides, near ditches or embankments especially with a full grain tank to prevent an over turn of the combine. Travel speed must be such that the machine has complete control and stability at all times. Shift to a lower gear before going down a steep hill.

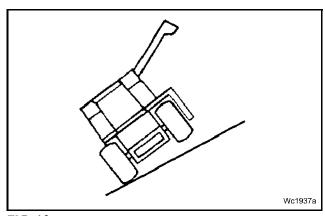


FIG. 12

FIG. 13: Always turn off the engine, shift the transmission to neutral, set parking brake, and remove the start key before leaving the operator seat or before permitting a person to inspect, clean, lubricate, adjust, or repair any part of the combine or the attachments. Unless specifically given instruction different in this manual. Never leave the operator seat as long as the engine is operating.

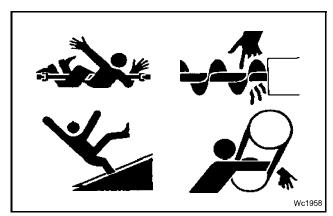


FIG. 13

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FIG. 14: Never work under the header or feeder house, unless the stop is properly engaged on the header lift cylinder, the engine is stopped, the parking brake is set, and the start key is removed from the start switch.

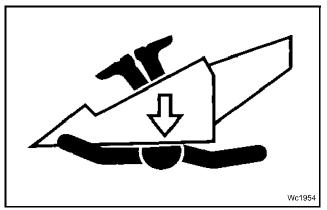


FIG. 14

FIG. 15: Fluid under high pressure can be almost invisible but can go into the skin causing serious injury.

See a doctor immediately if you sustain an injury from escaping fluids. Fluid injected into the skin must be surgically removed within a few hours or gangrene can result.

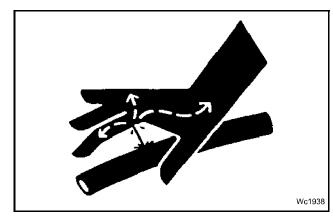


FIG. 15

FIG. 16: Use a piece of cardboard or wood to search for possible leaks. Never use your hands.

Relieve pressure from the hydraulic and fuel injection systems by lowering raised equipment, shutting off accumulator valve, and turning off the engine before loosening any part of the systems. Tighten all connections securely before applying pressure.

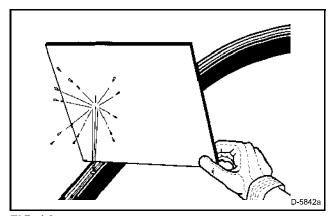


FIG. 16

FIG. 17: The surfaces in and around the engine compartment will be hot if the engine has been running, even for a short time.

Always permit parts that contain hot fluid to cool before handling or disconnecting.

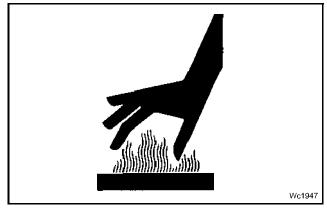


FIG. 17

FIG. 18: Do not remove radiator cap if engine is hot. Only remove the cap when the cap is cool enough to touch with bare hands. Loosen cap slowly to first notch to relieve pressure, then remove cap.

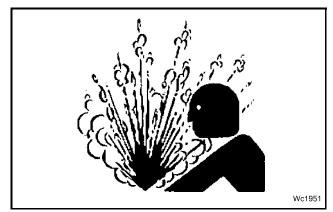


FIG. 18

FIG. 19: Remove any spilled oil, antifreeze, or fuel immediately from operator ladder and platform and other access areas.

Keep all access areas clean and free of obstructions.



FIG. 19

FIG. 20: Never permit any flame cutting, welding, or arc welding to be done on or near the sound proofing upholstery used in the cab. This material is flame resistant to normal exposure to cigarettes or other smoking material. But will ignite and sustain combustion when exposed to the heat of gas or electrical welding. The build up of chaff and crop debris in the engine compartment, on the engine, and near moving parts is a fire hazard. Check and clean these areas frequently.

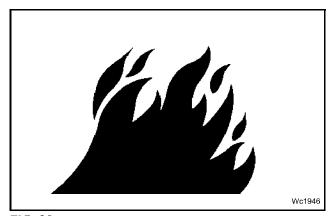


FIG. 20

FIG. 21: Always stop the combine engine before fueling. Do not smoke while fueling.

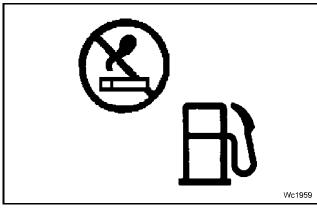


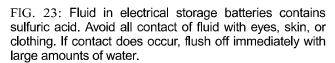
FIG. 21

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FIG. 22: Electrical storage batteries give off highly flammable hydrogen gas. Keep smoking material, open flame, or electrical sparks away from the battery. Do not lay tools or other conductive materials on the battery.

Be careful when connecting booster cables to combine batteries. Electrical component damage or battery explosion can result if booster cables are not installed correctly.

Do not charge a frozen battery as the battery can explode. Warm battery to 16 degree C (60 degree F).





WARNING: In order to provide a better view, certain photographs and illustrations in this manual may show an assembly with the shield removed. Do not operate combine unless all shields are in place. Replace shields immediately upon completion of inspection, repairs, cleaning or adjustments and before operation begins or resumes.

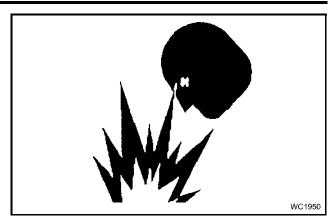


FIG. 22

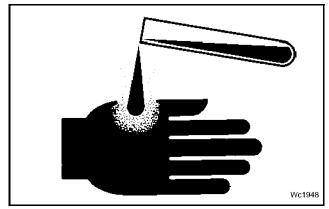


FIG. 23

TRAVEL ON PUBLIC ROADS

FIG. 24: See your local law enforcement agency for local regulations about the movement of farm equipment on public roads.

- Use head lights, flashing warning lights, tail lights, and turn signals day and night unless not permitted by local law. Make sure lights, reflectors, and SMV emblem are installed, in good condition, and wiped clean.
- Check to make sure all combine road lights (especially the amber flashers and red tail lights) are working.
- Lock brake pedals together with the locking strap so that both front wheel brakes will be applied at the same time.
- Empty the grain bin.
- Position unloading auger tube in the folded (transport) position.
- Remove header if possible. If header is to remain on the combine during transport, position header so the operator can see as good as possible. Make sure the header has enough ground and road clearance.

IMPORTANT: Do not carry the header at a height more than approximately 610 mm (24 in) off of the ground or road surface.

 Open the hydraulic accumulator shut off valve before transporting the combine. This will reduce header movement and combine loping when moving on rough roads.



CAUTION: Maintain proper tire pressure at all times to make sure of stability during road travel.

- Measure the overall width and height of the combine.
 These measurements are important when transporting along narrow roads and where under passes can be found.
- Be aware of the other vehicles on the road. Keep well over to your side of the road, and pull over when possible, to let faster vehicles pass.
- Adjust travel speed to maintain control at all times.
 Never permit combine to coast down hills.
- Reduce speed of combine by slowly pulling hydrostatic control lever to neutral, before applying the brakes. Do not apply the brakes quickly, especially if the combine is equipped with a large header, since weight movement (during rapid braking) can cause the rear wheels to come off the ground and result in loss of steering control.
- When taking the combine to a complete stop, slowly move the hydrostatic control lever to the neutral position, then push the hydrostatic high pressure release valve pedal and apply the brakes (if necessary).

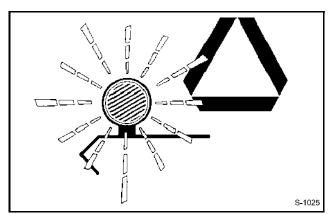


FIG. 24

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- Make all turns slowly. The combine is steered by the rear wheels and can loose control if turned quickly at transport speeds. This condition will be seen more when a large header is installed on the combine.
- Remember steering to the right moves the rear of the combine to the left and vice versa.
- If the engine is not running, the steering will become manual and be very difficult to handle. Difficult steering also can result in loss of control.
- Drive component damage can result from towing.



CAUTION: Do not tow the combine on a public road.

REAR HOOK

FIG. 25: The rear hook (1) is located in the center of the combine on the rear axle.

Use the rear hook (1) as a point on the combine to fasten a suitable chain to aid in pulling the combine out of the mud when the combine is stuck and not able to drive out.

- Do not go past the braking strength of the chain.
- Do not use ropes or tow straps.
- Do not use the hook to pull a trailer.
- Do not use the hook to transport the combine on the road.



WARNING: Do not use a rope or strap to pull the combine out of the mud. Energy stored in these devices can cause serious personal injury if the device should break.

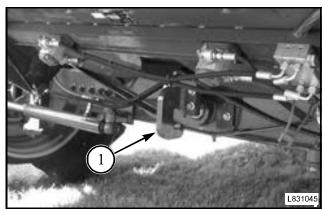


FIG. 25

HEADER LIFT CYLINDER STOP

A header lift cylinder stop is supplied on the left-hand header lift hydraulic cylinder.

FIG. 26: Header lift cylinder stop (1) in the disengaged position.

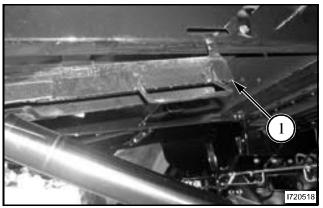


FIG. 26

FIG. 27: Header lift cylinder stop (1) in the engaged position.

Properly engage the header lift cylinder stop as shown before going under the header or feeder house for any reason.

To engage the header lift cylinder stop:

- Raise the feeder house until the cylinder rod is fully extended to permit the header lift cylinder stop to engage.
- 2. Release the hook and lower the header lift cylinder stop onto the cylinder rod.
- 3. Lower feeder house until the header lift cylinder stop contacts the end of the cylinder.

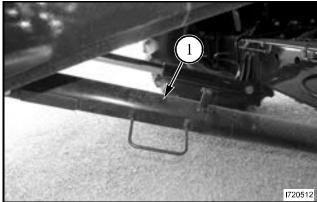


FIG. 27

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SAFETY SIGNS

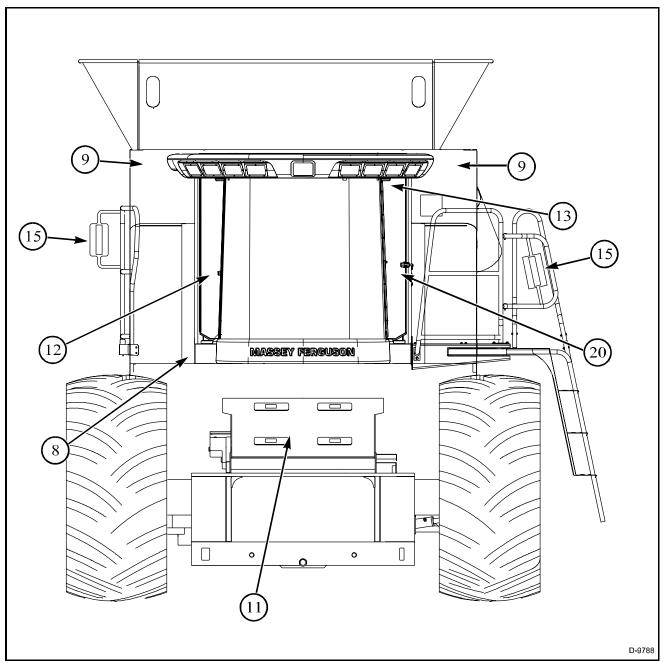


FIG. 28

FIG. 28: Safety sign locations, Front View.

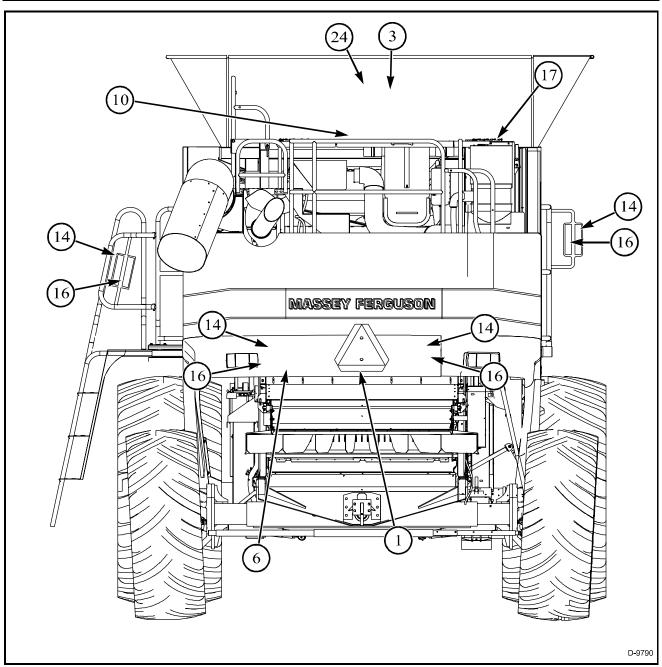


FIG. 29

FIG. 29: Safety sign locations, Rear View.

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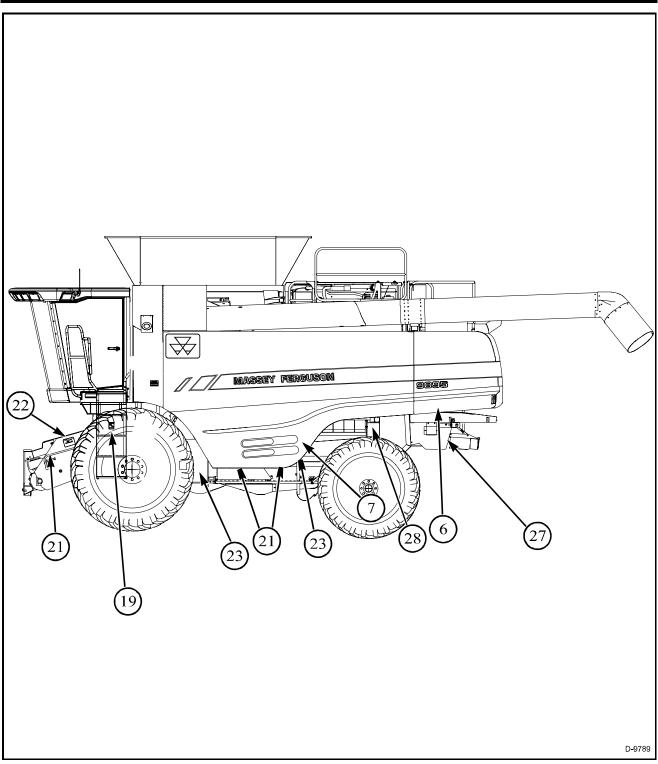


FIG. 30

FIG. 30: Safety sign locations, Left Side View.

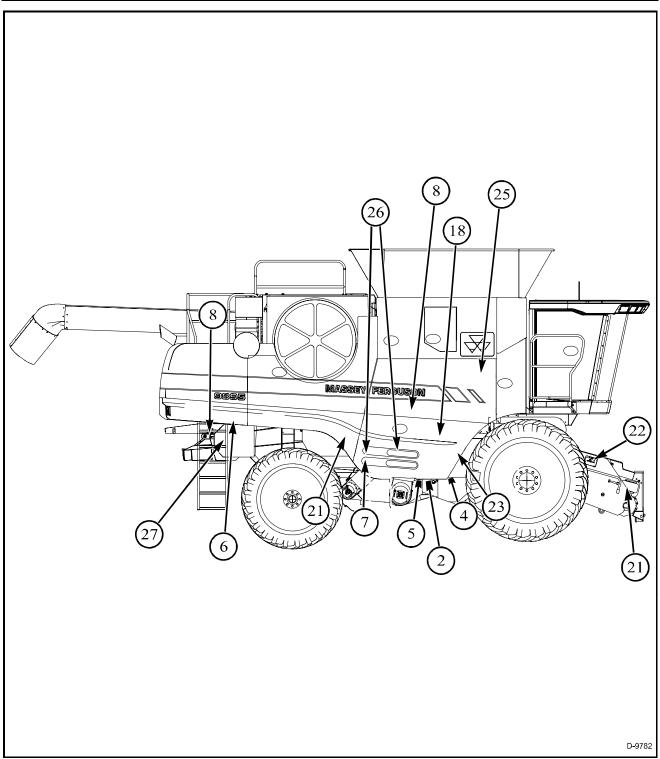


FIG. 31

FIG. 31: Safety sign locations, Right Side View.

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Item	Part Number	Description	Quantity
1	7020589	SMV Emblem	1
2	71348560	Accumulator	1
3	71368074	Bin Loader	1
4	71371720	Ram Stop	1
5	71379126	Fluid Pressure	1
6	71379127	Stand Clear	3
7	71379128	Shields in Place	2
8	71379129	Falling off	3
9	71379130	Grain Tank	2
10	71379132	Belt, Fan Hot	2
11	71379134	Hands out	2
12	71389158	Emergency Exit	1
13	71395762	Operation	1
14	700717402	Red Reflector	4
15	700717403	Amber Reflector	2
16	700717404	Orange Fluorescent	4
17	700720605	Radiator Cap	1
18	700720727	Belt/Chain	1
19	700721781	Keep Off	1
20	700725670	Instructor Seat	1
21	111091W1	Shield Missing	5
22	111095W1	Header Falling	4
23	111670W1	Belt/Chain	3
24	111736W2	Stop Engine	1
25	111741W1	Cleanout	1
26	111743W1	Hands Away	2
27	111737W1	Stop Engine (one on each side of chopper, if equipped)	2
28	700728459	Battery	1
29	700728484	Tire Usage	1

FIG. 32: Safety sign (1).

Slow Moving Vehicle Emblem.





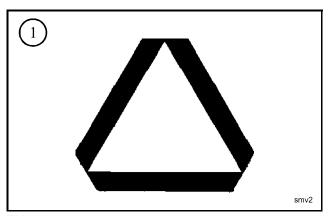


FIG. 32

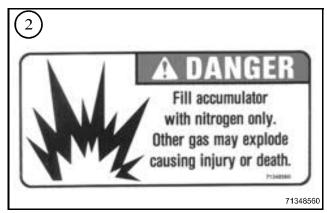


FIG. 33

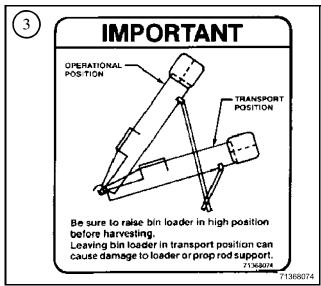


FIG. 34

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FIG. 35: Safety sign (4).

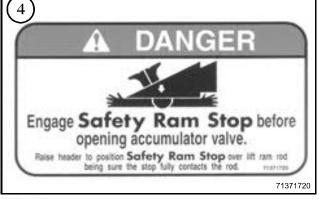


FIG. 35



FIG. 36

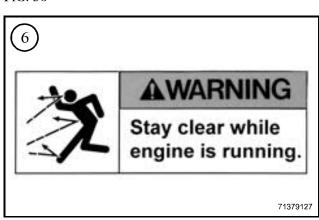


FIG. 37

FIG. 36: Safety sign (5).

FIG. 37: Safety sign (6).

FIG. 38: Safety sign (7).

FIG. 39: Safety sign (8).



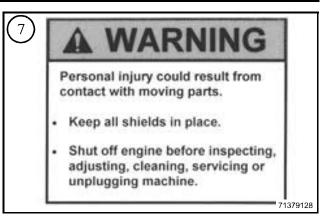


FIG. 38



FIG. 39



FIG. 40

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