



MASSEY FERGUSON

MF 5000

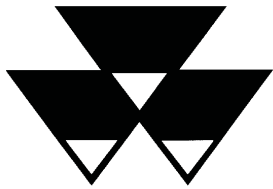
Series Split-Wing Field Cultivator

Models: 5135



OPERATOR'S MANUAL

FROM MASSEY FERGUSON



MASSEY FERGUSON[®]

TO OUR CUSTOMER:

Congratulations on your selection of a Massey Ferguson[®] Product. We believe you have exercised excellent judgment in the purchase of your Massey Ferguson[®] machine. We are most appreciative of your patronage.

Your Dealer has performed the pre-delivery service on your new machine.

He will discuss with you the operating and maintenance instructions given in this manual, and instruct you in the proper and varied applications of this machine. Call on him at any time when you have a question or need equipment related to the use of your machine.

We recommend that you carefully read this entire manual before operating the unit. Also, time spent in becoming fully acquainted with it's performance features, adjustments, and maintenance schedules will be repaid in a long and satisfactory life of the product.

This equipment is covered by a written warranty which will be provided to you by your Massey Ferguson[®] Dealer at time of purchase.

AGCO[®] reserves the right to make changes or add improvements to its products at any time without incurring any obligation to make such changes to products manufactured previously. AGCO[®], or its dealers, accept no responsibility for variations which may be evident in the actual specifications of its products and the statements and descriptions contained in this publication.

Massey Ferguson[®] is a worldwide brand of AGCO Corporation, Duluth, Georgia

**CALIFORNIA
Proposition 65 Warning**

WARNING: Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer, birth defects, and other reproductive harm. Wash hands after handling.

**MASSEY FERGUSON®
5135
997762MFF
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SAFETY
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SAFETY ALERT SYMBOLS

FIG. 1: The SAFETY-ALERT SYMBOL, indicates that there is a potential hazard to personal safety involved and extra safety precautions must be taken. When you see this symbol, be alert and carefully read the notation that follows it. Hazard control and accident prevention are dependent upon the carefulness, awareness and proper training of the personnel involved in the operation, transport, maintenance and storage of this equipment.

For your safety and to develop a better understanding of your equipment, thoroughly read the Operating Section of this manual before operation.



FIG. 1

SAFETY MESSAGES

FIG. 2: The words DANGER, WARNING, or CAUTION are used with the Safety-Alert Symbols, as shown, and are placed throughout this manual for your personal safety. Be sure you and your fellow workers follow them closely.



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



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



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



FIG. 2

INFORMATIONAL MESSAGES

The words IMPORTANT and Note are not related to personal safety, but are used to give additional information and tips for operating or servicing this equipment.

IMPORTANT: Identifies special instructions or procedures which, if not strictly observed, could result in damage to or destruction of the machine, process or its surroundings.

NOTE: Identifies points of particular interest for more efficient and convenient repair or operation.

SAFETY

SAFETY RULES

Most accidents are the result of negligence and carelessness, caused by the failure of the operator to follow all the safety precautions. Your machine has been designed with many built-in safety features, but the following precautions are mandatory to prevent such accidents.

Make sure that all personnel who use the machine, read and fully understand how to operate the machine safely.

This Operator's Manual is considered a part of the implement and should remain with it even when loaned or sold.

NOTE: These rules and instructions are for the safety of all personnel operating this machine and must be reviewed at least annually.

It is your responsibility to read & understand the Safety Section before operating your equipment.

PRIOR TO OPERATION



CAUTION: Before operating the machine, read and fully understand the Operator's Manual. If you do not understand any portion of this Operator's Manual, contact your dealer for clarification.

Do not wear loose-fitting clothing or clothing with loose strings or straps which could get entangled in the machines moving parts. Always wear long pants and protective shoes.

Securely support any machine elements that must be raised for assembly, repair or adjustments. Use caution when working under or near these areas.

After assembling, repairing or adjusting, make sure all tools, parts, and rags are removed from the machine before attempting to operate it.

Check that wheel lug nuts or bolts are tightened to the specified torque. Make sure the implement tires are inflated evenly. Refer to the Lubrication and Maintenance section for the torque and inflation charts.

Do not use the machine until you are sure the area is clear, especially of children and animals.

Make a visual inspection of the machine for any loose bolts, worn or missing parts, and make necessary repairs. Follow the lubrication instructions in the operating section of this manual.

Do not stand on or straddle the tongue when hitching or unhitching the machine from the tractor. Do not allow anyone to stand between the tongue or hitch and the tractor when backing up the machine.

Securely attach the machine to the tractor. Use a high strength, appropriately sized hitch pin and secure with a suitable retaining device.

Always use a safety chain with a tensile strength equal to or greater than the gross weight of the machine and any attachments when transporting. Provide only enough slack in the chain to permit turning.



CAUTION: Misuse or modification of this machine can cause serious personal injury or damage to the machine.

DURING OPERATION

The machine should be operated only by a qualified person who is familiar with the tractor, the machine, and all the safety related requirements. Do not let children operate this machine.

Beware of bystanders, particularly children! Always look around to make sure it is clear to move the machine.

Never permit riders on the machine or on the tractor during operation.

Keep everyone clear of the machine when folding or unfolding the wings.

Always have the machine attached to the tractor or another implement when folding or unfolding the wings.

When unfolding the wings, make sure there is adequate room to unfold the machine. Unfold wings only in a clear open area where there are no overhead obstructions.

Lower equipment to the ground, shut off the tractor and shift into park when leaving the tractor. Remove the key when leaving the tractor unattended. Do not leave the tractor or implement unattended with engine running.

Do not adjust, lubricate or repair the machine while it is in operation.

Use caution when working around hills. Be sure that the slope is not so steep as to cause the machine and tractor to turn over. On steep slopes, go up and down the slope and use caution when turning the machine.

Use caution when operating near a ditch, hill, creek or fences.

Following every 100 hours of operation, or as needed, tighten all the nuts and bolts to the specified torque listed in the Lubrication and Maintenance section of this manual.



WARNING: Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting a hydraulic line or any other line. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Wear proper hand and eye protection when searching for leaks. Use a piece of cardboard or heavy paper instead of your hand to locate the leak. If ANY Fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type of injury or gangrene may result.

WHILE TRANSPORTING

Always use flashing lights when traveling on a road or highway, except where such use is prohibited by law.

Comply with all state and local laws while transporting.

Always use a slow moving vehicle emblem when transporting. Keep the SMV emblem and all reflectors clean and visible.

Latch tractor brakes together before transporting and stop slowly. Never use independent braking with the machine in tow as loss of control and/or upset of the machine can result.

Always check the lug nuts for tightness, before transporting.

Shift the tractor into a lower gear when transporting down steep slopes or hills. Always keep the tractor in gear when transporting down a slope. Do not coast.

Do not pull the machine on any public roadways with any vehicle, except a tractor of the size required for field operation.

Install lock up devices before transporting.

Always use a safety chain with a tensile strength rating equal to or greater than the gross weight of the machine. Provide only enough slack in the chain to permit turning. Do not use the safety chain for towing.

The maximum transport speed should NOT exceed 40 km/h (25 mph).

Always check for overhead obstacles during transport. Know the overall height, width, length, and gross weight of the machine and the tractor before transporting.

MAINTENANCE SAFETY

Understand the service procedures before doing any work on the machine. Keep the work area clean and dry.

Securely support any machine components that must be raised for service or adjustments. Use caution when working under or near these areas.

Never lubricate or service the machine while it is moving.

Disengage all power and operate tractor controls to relieve hydraulic pressure.

Lower the machine to the ground, stop the engine, and remove the key, before performing any service or adjustments.

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

Check all bolts and nuts frequently to be sure they are tightened to the specifications.

Make sure all hydraulic line connectors are tight, and all hydraulic hoses and lines are in good condition before applying pressure to the system.

Perform the maintenance instructions described in this manual according to the schedule provided. If major repairs are ever needed or assistance is desired, contact an Authorized Dealer. To ensure optimum performance and safety, always purchase genuine replacement parts and accessories. Using unapproved replacement parts and accessories could void the warranty provided.

Do not modify or permit any modification to this machine or any of its components, without first consulting your authorized dealer.

TIRE SERVICE SAFETY

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job safely.

Always maintain the correct tire pressure. Do not inflate tires above the recommended pressure.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand off to one side and NOT in front or over the tire and wheel assembly. Use a safety cage if available.

Explosive separation of a tire and rim can cause serious injury or death.

Check tires for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts, before and after each use.

BE PREPARED FOR ACCIDENTS

Review and be aware of what to do in the event of an accident or fire.

Keep a first aid kit and a fire extinguisher handy.

Keep an up to date list of emergency phone numbers for doctors, ambulance, hospital, police, and fire departments near your phone.

Wear close fitting clothing and personal protective equipment (PPE) that is appropriate for operating, servicing or repairing the machine.

Use a seat belt when you operate a tractor with a roll-over protective structure (ROPS) to minimize the chance of injury from an accident such as an overturn.

SAFETY

SAFETY SIGNS

Your machine comes equipped with all the safety signs in place. They were designed to warn about the potential hazards that may exist on the machine. Read and follow their directions completely.

Keep all safety signs clean and legible.

Replace all damaged or missing safety signs. Order new safety signs from your nearest dealer.

When ordering new or replacement components make sure the correct safety sign is affixed to the new part, if not be sure to order a replacement safety sign to install.

Refer to this section or safety sign placement in the Assembly Identification Section of this manual for the proper sign placement location. To install new safety signs:

- Clean the area the sign is to be placed on.
- Spray soapy water on the surface where the sign is to be placed.
- Peel the backing from the sign, and carefully place on the wet surface, when placement is in the correct position, press firmly onto the surface.
- Squeeze out the air bubbles with the edge of a credit card.

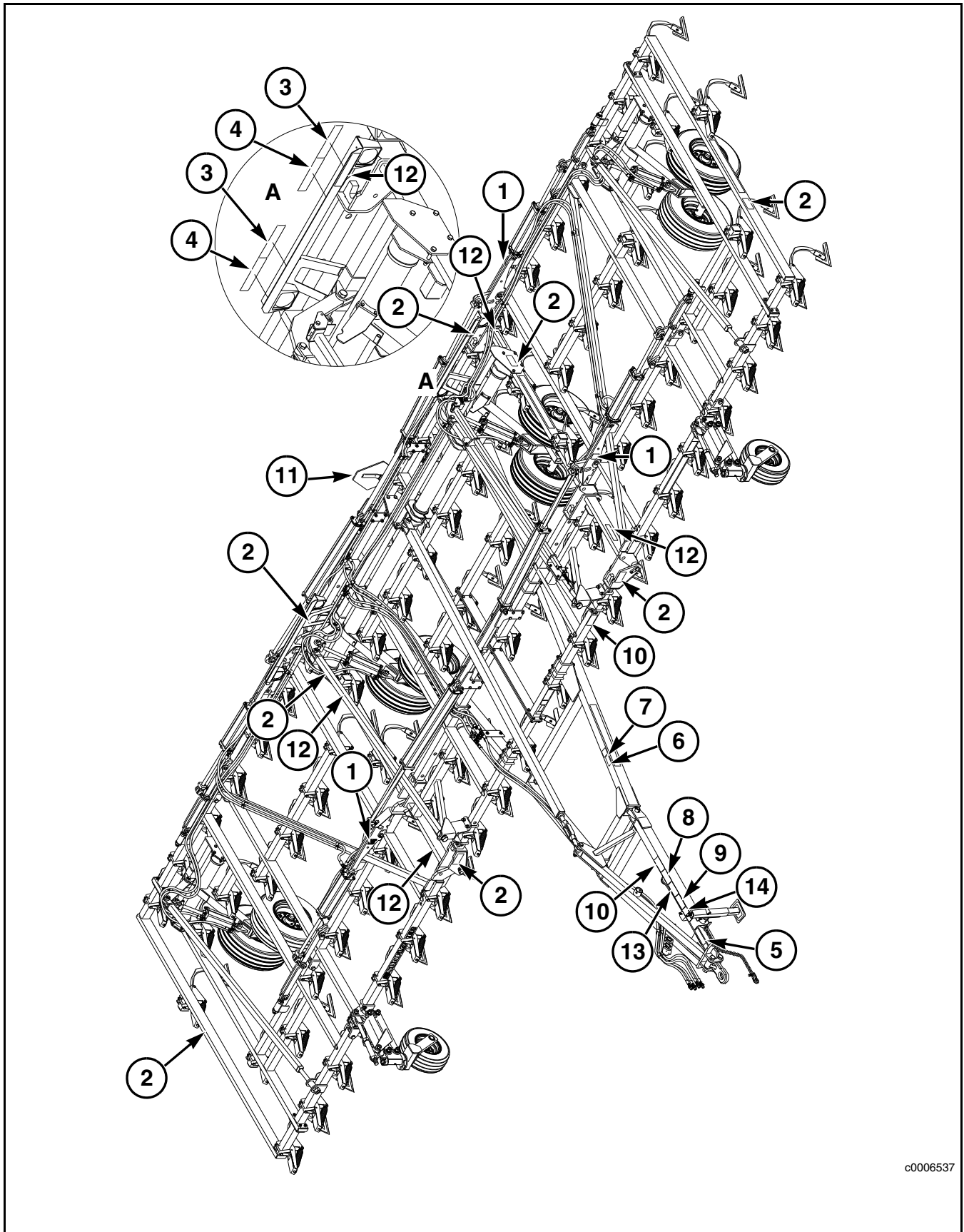
The types of safety signs and locations on the machine are shown in the following illustrations. Good operating techniques require that you familiarize yourself with the various safety signs, the type of warning and area or particular function that requires your SAFETY AWARENESS.

SAFETY SIGN PLACEMENT

The safety sign placements are on the following pages.

SAFETY

NORTH AMERICA SAFETY SIGN PLACEMENT - EARLY PRODUCTION



c0006537

FIG. 3

FIG. 3: North America safety sign locations - early production

Item Number	Reference Number	Description
1	997994	Safety sign, install lock pins, warning
2	997042	Safety sign, stay clear of folding wings
3	997661	Red Reflector
4	997662	Amber Reflector
5	997792	Safety sign, warning, read operator's manual
6	997052	Safety sign, systems must be bled of air
7	997314	Safety sign, important - to insure even working depth
8	997048	Safety sign, fasten safety chain
9	997311	Safety sign, high pressure fluid hazard
10	997045	Safety sign, wings can contact electric
11	7001	SMV Emblem
12	997663	Yellow Reflector
13	997074	Safety sign, unhitching hazard
14	997799	Safety sign, warning, loss of control 25 mph

FIG. 4: (1) 997994

Transporting Hazard: Install wing fold lock pins before transporting. To prevent machine damage remove pins before unfolding.

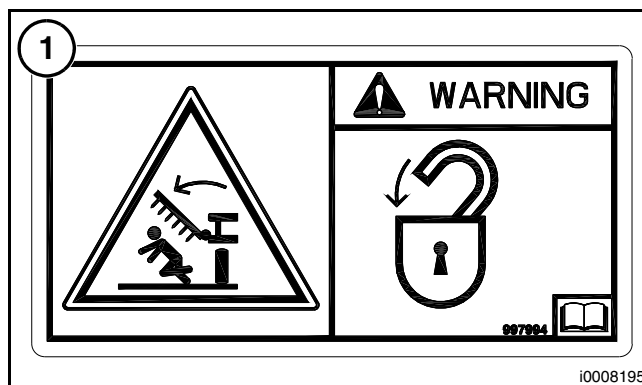


FIG. 4

FIG. 5: (2) 997042

DANGER
OVERHEAD WING HAZARD
MECHANICAL OR HYDRAULIC FAILURE CAN ALLOW WINGS TO FALL RAPIDLY.

To Prevent Serious Injury or Death:

- Stand clear of machine when wings are being folded or unfolded.
- Keep others away



FIG. 5

SAFETY

FIG. 6: (3) 997661

Reflector, red

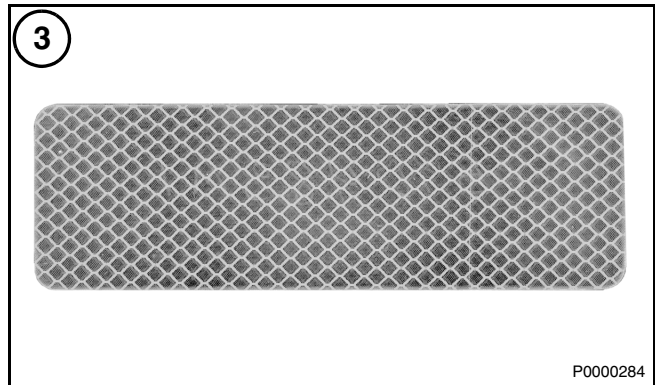


FIG. 6

FIG. 7: (4) 997662

Reflector, amber

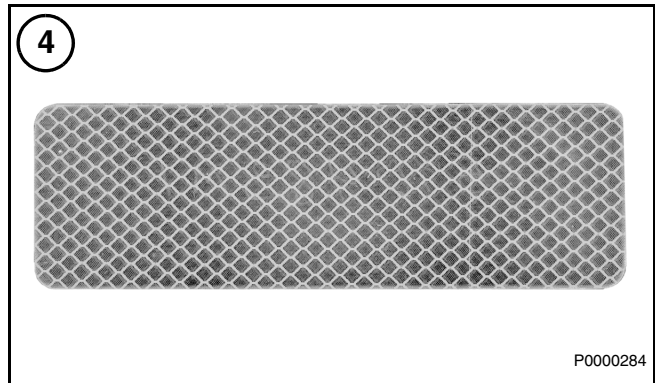


FIG. 7

FIG. 8: (5) 997792

WARNING

To avoid injury:

1. Read and understand the Operator's Manual for safety information and operating instructions.
2. Tractor must be equipped with Rollover Protective Structure (ROPS) and seat belt.
3. Keep riders off the equipment.
4. Make sure everyone is clear of tractor and equipment before starting engine or operation.
5. Keep all shields, covers and guards in place and keep away from moving parts while engine is running.
6. Never lubricate, adjust, unclog or service the equipment with the tractor engine running.
7. Securely support or block lifted equipment that must be in raised position for servicing or adjustment.
8. Use flashing warning lights and SMV emblem when on public roads except where prohibited by law.
9. Apply parking brake, lower equipment, stop engine and remove key and wait for all movement to stop before servicing equipment or leaving equipment unattended.

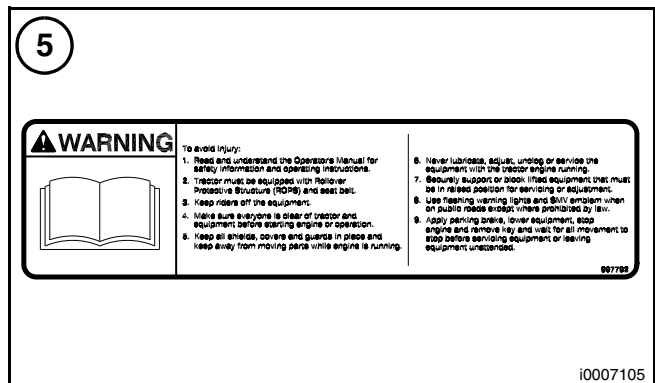


FIG. 8

FIG. 9: (6) 997052**IMPORTANT****REPHASING HYDRAULIC SYSTEM****Largest - Smallest Bore**

This unit is equipped with a rephasing hydraulic lift system. Do not cycle cylinders until the system is purged of air or damage to the lift components may result.

- To purge cylinders, HOLD tractor hydraulic lever in raised position until ALL lift cylinders are fully extended.
- Refer to operator's manual for instructions.

FIG. 10: (7) 997314**IMPORTANT**

TO INSURE EVEN WORKING DEPTH, THE LIFT WHEELS MUST BE USED TO GAUGE THE DEPTH OF EACH SECTION. TO PREVENT MACHINE DAMAGE DO NOT OPERATE WITH THE TIRES RAISED OFF THE GROUND.

FIG. 11: (8) 997048**TOWING HAZARD**

To Avoid Injury or Machine Damage:

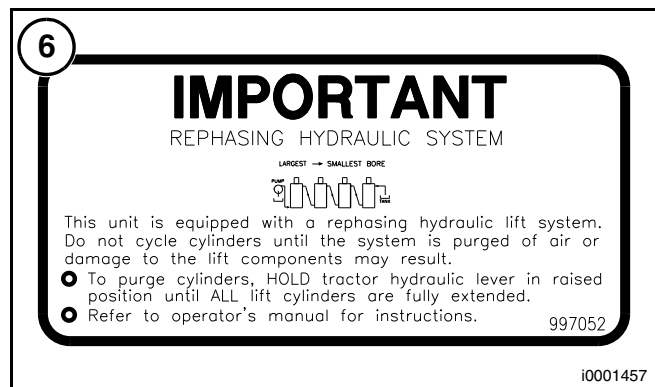
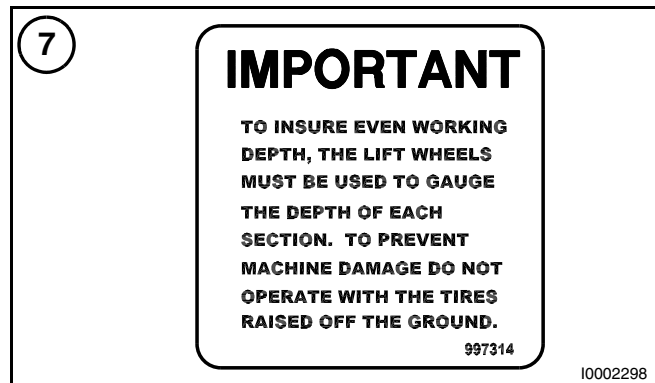
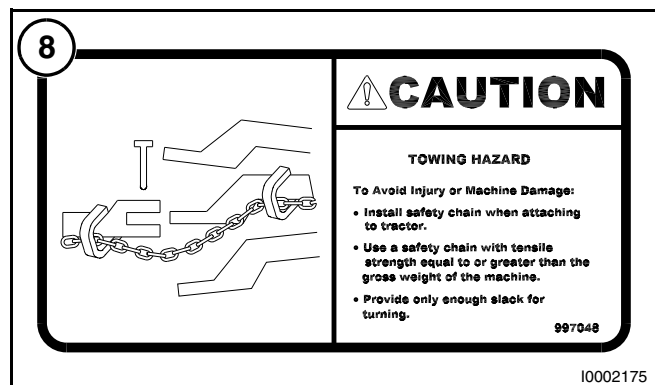
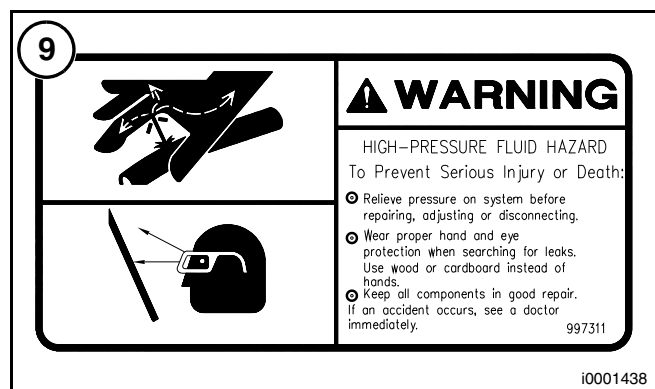
- Install safety chain when attaching to tractor.
- Use a safety chain with tensile strength equal to or greater than the gross weight of the machine.
- Provide only enough slack for turning.

FIG. 12: (9) 997311**WARNING****HIGH-PRESSURE FLUID HAZARD**

To Prevent Serious Injury or Death:

- Relieve pressure on system before repairing, adjusting or disconnecting.
- Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- Keep all components in good repair.

If an accident occurs, see a doctor immediately.

**FIG. 9****FIG. 10****FIG. 11****FIG. 12**

SAFETY

FIG. 13: (10) 997045

DANGER

ELECTROCUTION HAZARD

To Prevent Serious Injury or Death:

- Do not allow machine to contact overhead lines.
- Measure overall transport width and height of machine.
- Harrow attachments may add to transport height.
- Electrocutation may occur without direct contact.

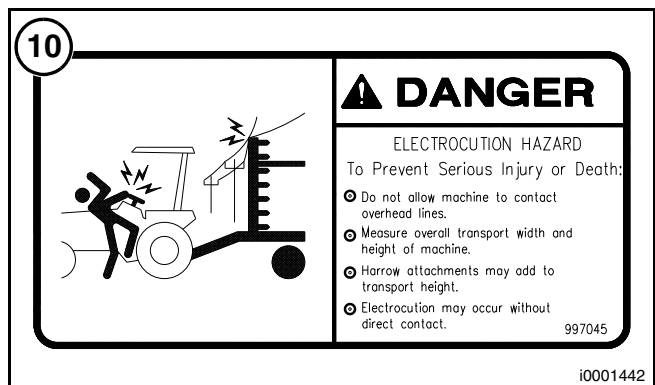


FIG. 13

FIG. 14: (11) 7001

SMV Emblem

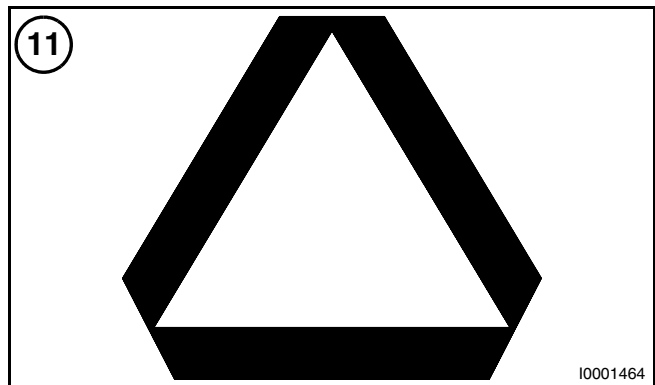


FIG. 14

FIG. 15: (12) 997663

Reflector, yellow

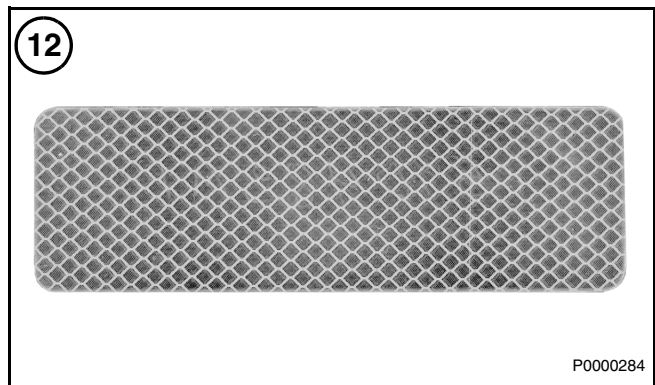


FIG. 15

FIG. 16: (13) 997074

WARNING

UNHITCHING HAZARD

NEGATIVE TONGUE WEIGHT WILL CAUSE IMMEDIATE ELEVATION OF TONGUE.

To Prevent Serious Injury or Death:

- Lower the machine or rear parking stand to the ground before removing hitch pin.
- Stay clear of tongue when unhitching.

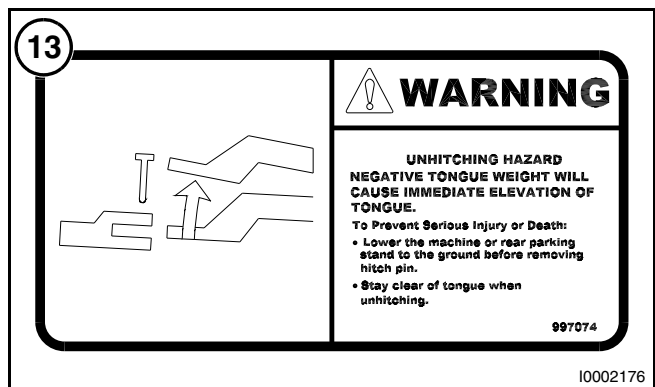


FIG. 16

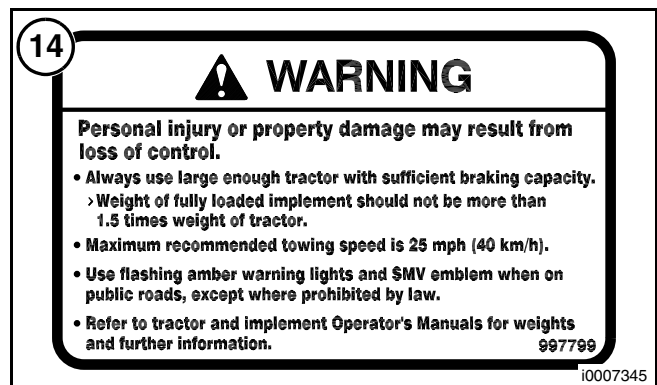
FIG. 17: (14) 997799**WARNING**

Personal injury or property damage may result from loss of control.

- Always use large enough tractor with sufficient braking capacity.

Weight of fully loaded implement should not be more than 1.5 times weight of tractor.

- Maximum recommended towing speed is 25 mph (40 km/h).
- Use flashing amber warning lights and SMV emblem when on public roads, except where prohibited by law.
- Refer to tractor and implement Operator's Manuals for weights and further information.

**FIG. 17**

SAFETY

NORTH AMERICA SAFETY SIGN PLACEMENT - LATE PRODUCTION

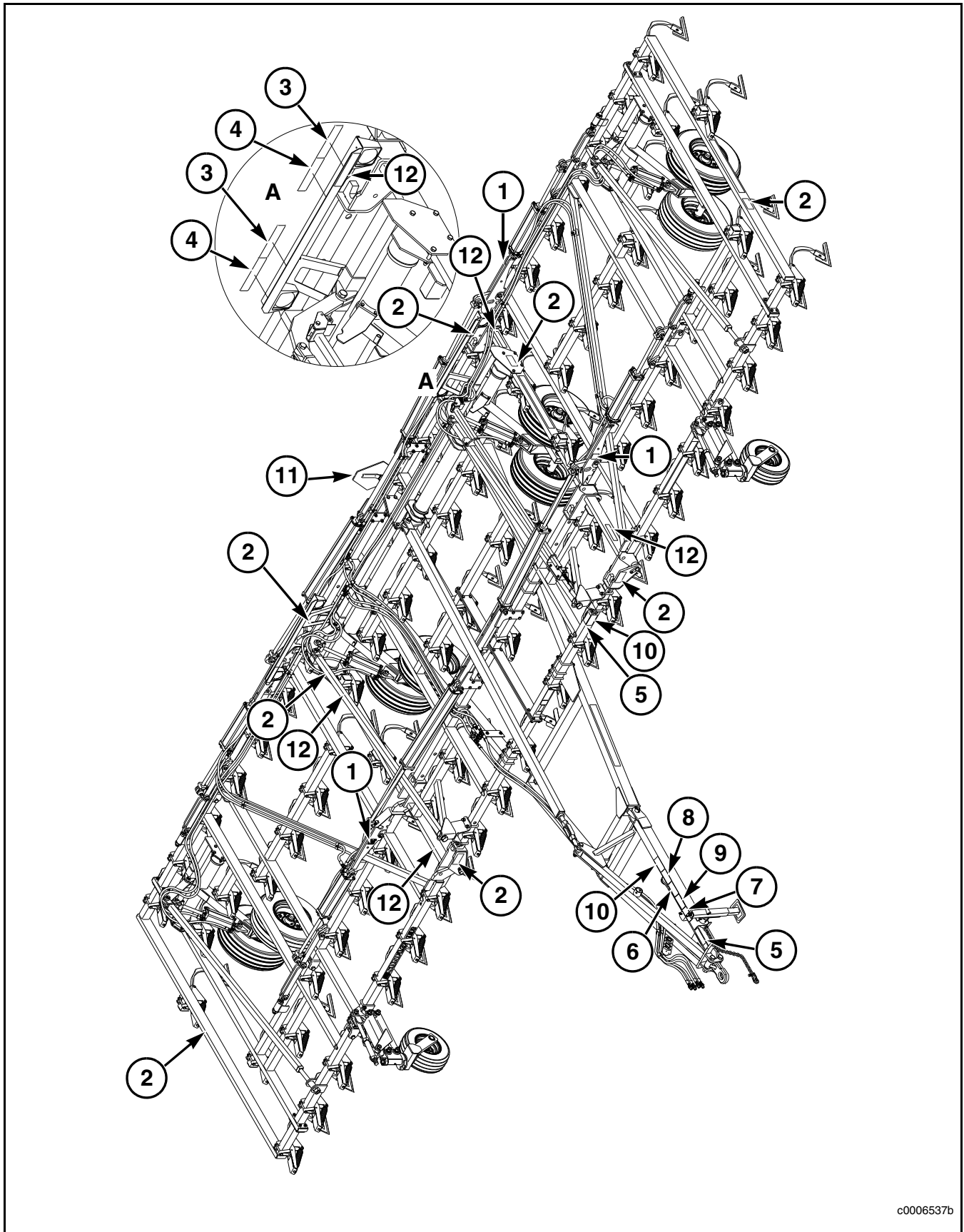


FIG. 18

FIG. 18: North America safety sign locations - late production

Item Number	Reference Number	Description
1	997994	Safety sign, install lock pins, warning
2	997854	Safety sign, folding wings, danger
3	997661	Red reflector
4	997662	Amber reflector
5	997860	Safety sign, read manual, warning
6	997852	Safety sign, unhitching hazard, warning
7	997868	Safety sign, speed sign, 25 mile/h
8	997856	Safety sign, fasten safety chain, caution
9	997866	Safety sign, fluid under pressure, warning
10	997862	Safety sign, high voltage, danger
11	7001	SMV emblem
12	997663	Yellow reflector

FIG. 19: (1) 997994

Transporting Hazard: Install wing fold lock pins before transporting. To prevent machine damage remove pins before unfolding.

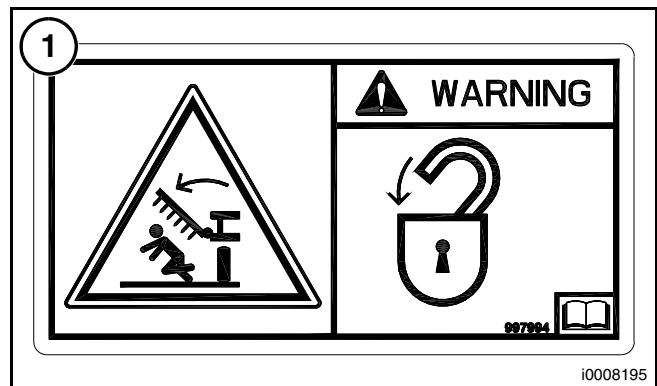


FIG. 19

FIG. 20: (2) 997854

Crushing hazard: Folding wing: stay away from the machine.

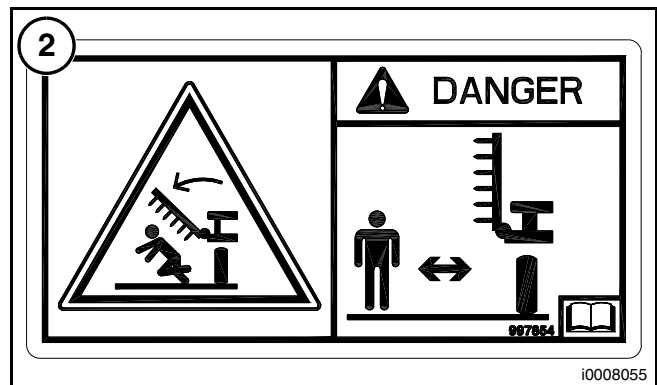


FIG. 20

FIG. 21: (3) 997661

Reflector, red

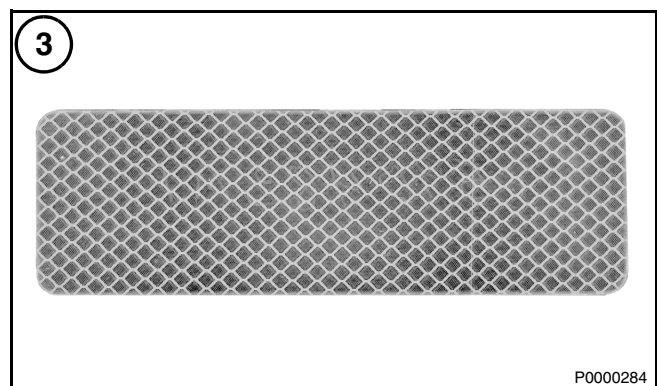


FIG. 21

SAFETY

FIG. 22: (4) 997662

Reflector, amber

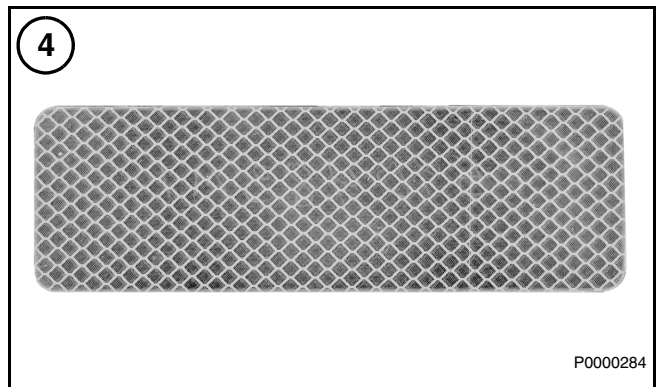


FIG. 22

FIG. 23: (5) 997860

Safety alert: Read the Operator's Manual before operating the equipment. Follow safety and operating instructions.

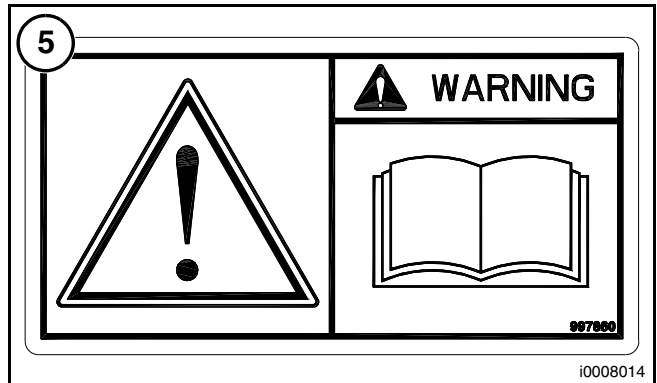


FIG. 23

FIG. 24: (6) 997852

Unhitch hazard: Negative tongue weight will cause immediate elevation of tongue.

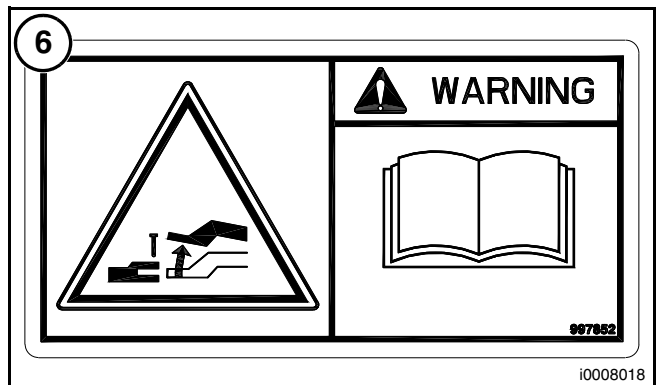


FIG. 24

FIG. 25: (7) 997868

Do not exceed the maximum speed of 25 miles/hour.



FIG. 25

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