

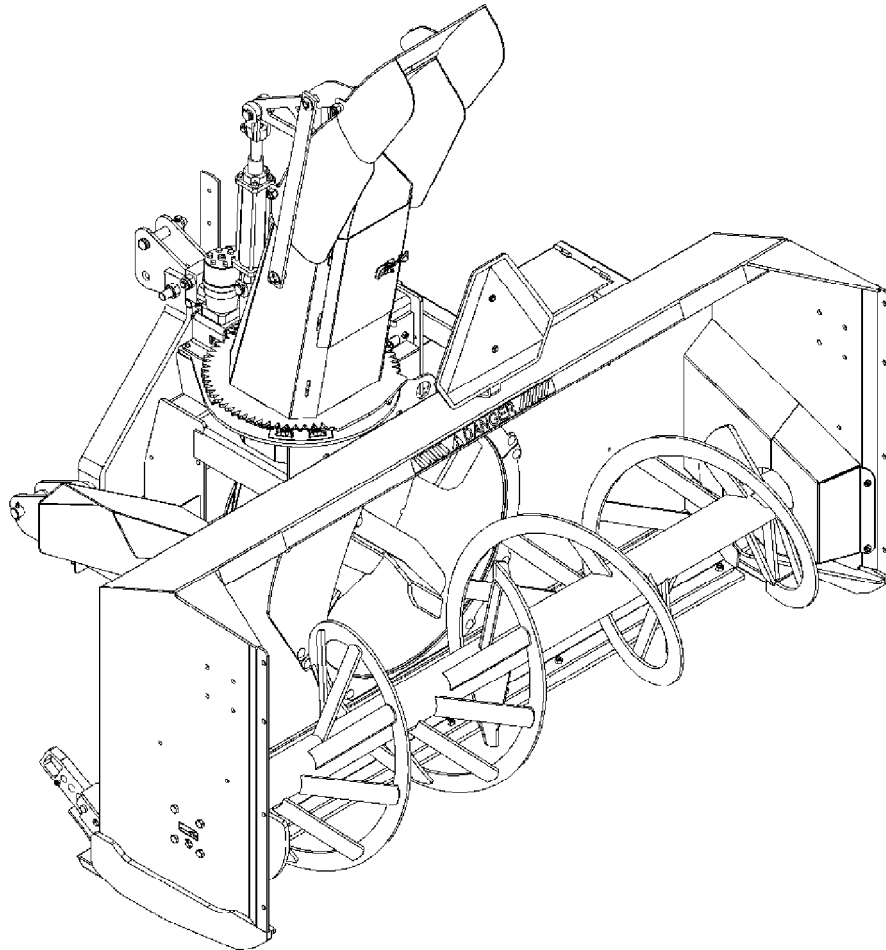
OPERATOR'S MANUAL

SNOWBLOWER

SB1388

WITH ROTATING DRUM

Serial #: 1XFSB13X_E0140001 & plus



FRONTIER.

OM 0437SB1388R-A
09/14

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SPECIFICATIONS

Specifications	SB1388R
General	
Type	2 phases
Direction of impeller rotation	CCW
PTO power requirements	55 - 85 Hp
Shipping weight (without chute)	1669 Lbs
Operating weight, incl. chute & hyd. deflect.	1745 Lbs
Set-up time	90 min
Working width	88 1/2"
Working height	41"
Overall width	88 1/2"
Overall height (without chute)	42 1/2"
Overall height (with three part chute closed)	81"
Overall length	61"
Impeller	
Impeller diameter	28"
Impeller width	12"
Number of impeller blade	4
Impeller shaft diameter	1 9/16"
Impeller RPM	540 RPM
Auger	
Auger - Single / dual	Single (dual in option)
Main auger diameter	23"
Auger driven system	Chain No.80
Second auger diameter	14"
Second auger driven system	Chain No.60
Auger RPM	185 RPM
Drum	
Rotating drum	Yes
Rotation of drum	Hydraulic by motor
Flow restrictor	Yes
Housing	
Housing thickness	11 Ga.
Side panel thickness	1/4"
Impeller housing thickness	1/4"
Chute	
Chute position	Right
Rotation of the chute	Hydraulic by motor
Flow restrictor (rotation)	Yes
Flow restrictor (deflector)	Yes
Hoses support	Yes
Deflector adjustment (2 part chute)	Manual (hydraulic in option)
Deflector adjustment (3 part chute)	Hydraulic
Cutting edge	
Replaceable and reversible cutting edge	Yes
Cutting edge material	Carb.steel (other mater.available)
Cutting edge dimension	1/2" x 4"
Skid shoe	
Replaceable and reversible skid shoe	Yes, 8 positions
Skid shoe material	Stand.steel (other mater.available)
Drive and hitch	
Main driving system	Driveline series 80
Chain idler	Twin sprokets w/compress.spring
Parking stand	Yes
Number of auger shear bolt	1 (on the driving shaft)
Number of impeller shear bolt	1 (on the driveline)
Type of hitch	3 pts, cat. 2
Compatibility with quick hitch	Requires kit 5RDF0077

INTRODUCTION

TO THE PURCHASER

All products are designed to give safe, dependable service if they are operated and maintained according to instructions. **Read and understand this manual before operation.**

This manual has been prepared to assist the owner and operators in the safe operation and suitable maintenance of the implements. The information was applicable to products at the time of manufacture and does not include modifications made afterwards.

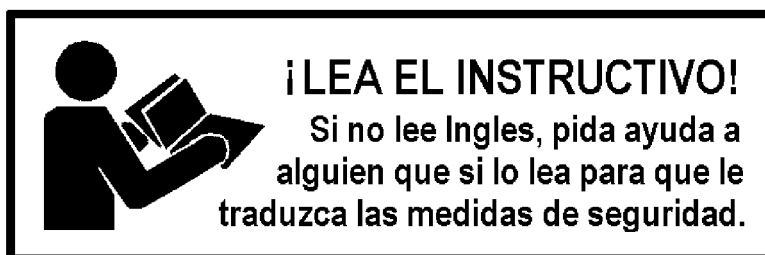
Read and understand this operator's manual before attempting to put an implement into service. Familiarize yourself with the operating instructions and all the safety recommendations contained in this manual and those labeled on the implements and on the tractor. Follow the safety recommendations and make sure that those with whom you work follow them.

The Dealer is responsible for warranty registration of the unit you have purchased. To assist your dealer in handling your needs, please record hereafter the model number and serial number of your implement and tractor. It is also advisable to supply them to your insurance company. It will be helpful in the event that an implement or tractor is lost or stolen.

MODEL :

SERIAL NUMBER :

DATE OF PURCHASE :



Illustrations

The illustrations may not necessarily reproduce the full detail and the exact shape of the parts or depict the actual models, but are intended for reference only

Direction Reference




Right Hand and Left Hand are determined by those seen by the conductor standing behind the equipment.

SAFETY PRECAUTIONS



SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.

-  **DANGER :** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
-  **WARNING :** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
-  **CAUTION :** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
- IMPORTANT :** Indicates that equipment or property damage could result if instructions are not followed.
- NOTE :** Gives helpful information.

All products are designed to give safe, dependable service if they are operated and maintained according to instructions. **Read and understand this manual before operation.** It is the owner's responsibility to be certain anyone operating this product reads this manual, and all other applicable manuals, to become familiar with this equipment and all safety precautions. Failure to do so could result in serious personal injury or equipment damage. If you have any questions, consult your dealer.

BEFORE OPERATION

Children and Bystanders

Tragic accidents can occur if the operator is not alert to the presence of children. Children are generally attracted to machines and the work being done. Never assume children will remain where you last saw them.

1. Keep children out of the operating area and under the watchful eye of another responsible adult.
2. Be alert and turn machine off if children enter the work area.
3. Before and when backing, look behind and look for small children.
4. Never carry children while operating the machine. They may fall off and be seriously injured or interfere with safe operation of the machine.
5. Never allow children to play on the machine or attachment even when turned off.
6. Never allow children to operate the machine even under adult supervision.
7. Use extra care when approaching blind corners, shrubs, trees, or other obstructions that might hide children from sight.

SAFETY PRECAUTIONS - continued

NOTICE

A safe operator is the best insurance against accidents. All operators, no matter how experienced they may be, should read this Operator's Manual and all other related manuals before attempting to operate an implement. Please read the following section and pay particular attention to all safety recommendations contained in this manual and those labeled on the implements and on the tractor.

THE SNOWBLOWER

Before Operation

1. Read and understand this operator's manual and tractor operator's manual. Know how to operate all controls and how to stop the unit and disengage the controls quickly.
2. Never wear loose, torn, or bulky clothing around the tractor and implement. It may catch on moving parts or controls, leading to the risk of accident.
3. Before the snow season, thoroughly inspect the area where the equipment is to be used and remove all doormats, sleds, boards and other foreign objects.
4. Disengage clutch and shift into neutral before starting the engine.
5. Do not operate equipment in wintertime without wearing adequate winter garments.
6. Never attempt to make any adjustments while engine is running. Read this manual carefully to acquaint yourself with the equipment as well as the tractor operator's manual. Working with unfamiliar equipment can lead to accidents. Be thoroughly familiar with the controls and proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
7. Keep all shields in place and properly tighten all mounting hardware.
8. Periodically, inspect all moving parts for wear and replace with authorized service parts if an excessive amount of wear is present.
9. Replace all missing, illegible, or damaged safety and warning decals. See list of decals in the operator's manual.
10. Do not modify or alter this equipment or any of its components, or any equipment function without first consulting your dealer.
11. Keep safety decals clean of dirt and grime.
12. Make sure the tractor is counterweighted as recommended by your dealer. Weights provide the necessary balance to improve stability, traction and steering.

SAFETY PRECAUTIONS- continued

Snowblower Operation

1. Before leaving the tractor/snowblower unattended, take all possible precautions. Park the tractor/snowblower on level ground, place the transmission in neutral, set the parking brake, disengage the PTO, lower the snowblower to the ground, place all levers including auxiliary control levers in neutral, shut off the engine and remove the ignition key.
2. Before starting the tractor/ snowblower, remove the ice that might have accumulated on the auger/fan, inspect and clean every rotating part.
3. Prior to operation, clear work area of all objects that can be picked up and thrown. Mark all curbs, pipes, etc. that cannot be moved.
4. Be sure the PTO switch/lever is in OFF/disengaged position before starting engine.
5. Exercise extreme caution when operating on or crossing a gravel drive, walks, or roads. Stay alert for hidden hazards or traffic.
6. Do not carry passengers.
7. Keep clear of all rotating parts. Do not put hands or feet under, or into snowblower with engine running. Be especially observant of the snowblower areas of discharge, intake or all other mechanical motions.
8. For your safety, do not work under any hydraulically supported machine elements that may creep down, suddenly drop or be accidentally lowered.
9. Park the tractor/snowblower on level ground, place the transmission in neutral, set the parking brake, disengage the PTO, lower the snowblower to the ground, place all control levers in neutral, shut off the engine, remove the ignition key and allow the rotating parts to stop BEFORE unclogging the housing or the chute and making any repairs, adjustments or inspections. Use only a 36" long stick of wood to unclog the snowblower.
10. If the snowblower starts to vibrate abnormally, disengage the PTO, stop the engine immediately and check for cause. Excessive vibration is generally a sign of holeble.
11. Do not run the engine indoors except when starting engine and transporting attachment in or out of building. Carbon monoxide gas is colorless, odorless and deadly.
12. Do not attempt to operate on steep slopes. If operating on slopes is necessary, exercise extreme caution when changing direction.
13. Never operate snowblower without guards, and other safety protective devices in place. All tractor and snowblower shields and covers must be correctly installed at all times. When necessary to remove these, they must be reinstalled immediately.
14. Never operate snowblower near glass enclosures, automobiles, window wells, embankments, etc., without proper adjustment of snow discharge angle.
15. Never operate machine at high transport speeds on a slippery surface.
16. Use extra caution when backing up.
17. Disengage power to auger/fan when transporting or when not in use.
18. Never operate the snowblower without good visibility and lighting.
19. 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 noises.
20. Never allow anyone near the work area.
21. Never allow anyone to operate the snowblower until they have read the manual completely and are thoroughly familiar with basic tractor and snowblower operation.
22. Make sure the tractor is counterweighted as recommended by your dealer. Weights provide the necessary balance to improve stability, traction and steering.
23. Always make sure all snowblower components are properly installed and securely fastened BEFORE operation.
24. Adjust housing height to clear gravel or crushed rocks surface.
25. Keep away from chute discharge. This chute has the capacity to throw debris at far distances.
26. Never direct chute discharge towards people or animals. A thrown debris can cause serious injury.

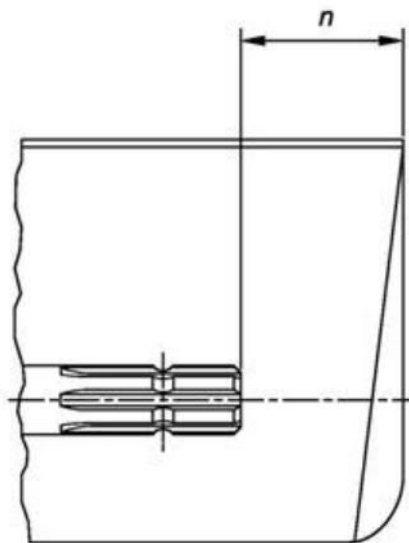
SAFETY PRECAUTIONS- continued

Stay Clear of Rotating Drivelines

1. Entanglement in rotating driveline can cause serious injury or death.
2. Keep tractor master shield and driveline shields in place at all times. Make sure rotating shields turn freely.
3. Wear close fitting clothing. Stop the engine and be sure that PTO driveline is stopped before making adjustments, connections, or cleaning out PTO driven equipment.
4. Do not install any adapter device between the tractor and the primary implement PTO drive shaft that will allow a 1000 rpm tractor shaft to power a 540 rpm implement at speeds higher than 540 rpm.
5. To use the blower with PTO at 1000 rev / min, see your dealer to install the appropriate set of gear.
6. Do not install any adapter device that results in a portion of the rotating implement shaft, tractor shaft, or the adapter to be unguarded. The tractor master shield shall overlap the end of the splined shaft and the added adaptor device as outlined in the table.



PTO Type	Diameter	Splines	$n \pm 5 \text{ mm (0.20 in.)}$
1	35 mm (1.378 in.)	6	85 mm (3.35 in.)
2	35 mm (1.378 in.)	21	85 mm (3.35 in.)
3	45 mm (1.772 in.)	20	100 mm (4.00 in.)



SAFETY PRECAUTIONS- continued

THE TRACTOR

General Information

1. Read the operator's manual carefully before using tractor. Lack of operating knowledge can lead to accidents.
2. Do not allow anyone but the operator to ride on the tractor. There is no safe place for extra riders

Operating the Tractor

1. Never run the tractor engine in a closed building without adequate ventilation, as the exhaust fumes are very dangerous.
2. Never allow an open flame near the fuel tank or battery.
3. Make sure the shield is installed when using a PTO-driven equipment and always replace the shield if damaged.
4. Always bring the tractor to a complete stop, shut off the engine, lower the implement to the ground and remove the ignition key before leaving the tractor.
5. Never park the tractor on a steep slope.
6. Do not attempt to operate on steep slopes.
7. Use of tire chains for better traction and stability is recommended.
8. Always drive the tractor at speeds compatible with safety, especially when operating over rough ground, crossing ditches, or when turning.
9. Handle fuel with care, as it is highly flammable.
10. Use approved fuel container.
11. Never add fuel to a running engine or a hot engine.
12. Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors. Replace fuel cap securely and wipe up spilled fuel.
13. Never allow anyone to operate the snowblower until they are thoroughly familiar with basic tractor and snowblower operation.

14. A minimum 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and equipment. Do not estimate.

15. Always make sure all snowblower components are properly installed and securely fastened BEFORE operation.

During Operation

1. Do not allow anyone to ride on the tractor/snowblower at any time. There is no safe place for passengers on this equipment. The operator MUST sit in the tractor seat.
2. Eye and hearing protection is recommended when operating the snowblower.
3. Operate only during daylight hours, or when the area is well lit with bright artificial light.
4. Disengage the PTO (turn to "OFF"), place the transmission in neutral, set the parking brake, shut off the engine and remove the key, and make sure rotating components have stopped BEFORE leaving the operator's seat.
5. Inspect the snowblower after striking any foreign object to assure that all snowblower parts are safe and secure and not damaged.

SAFETY PRECAUTIONS- continued

MAINTENANCE

ALWAYS USE GENUINE PARTS WHEN REPLACEMENT PARTS ARE REQUIRED

1. Keep the tractor and snowblower properly maintained.
2. Park the tractor and snowblower on level ground, place the transmission in neutral, set the parking brake, disengage the PTO, lower the snowblower to the ground, place all control levers in neutral, shut off the engine and remove the ignition key and allow the rotating parts to stop BEFORE making any snowblower adjustments.
3. To avoid injury, do not adjust, unblock the driving system, or service the snowblower with the tractor engine running. Make sure rotating components have completely stopped BEFORE leaving the operator's seat.
4. Keep the tractor and snowblower clean. Snow, dirt or ice build-up can lead to malfunction or personal injury from thawing and refreezing in garage.
5. Always wear eye protection when cleaning or servicing the snowblower.
6. DO NOT service the tractor while the engine is running or hot, or if the unit is in motion. Always lower snowblower to the ground. If necessary to service snowblower in raised position, securely support with stands or suitable blocking before working underneath. Do not rely on hydraulically supported devices for your safety. They can settle suddenly, leak down, or be accidentally lowered.
7. Do not attempt to service machine, clear obstructions or unclog the snowblower with the engine running. Always shut off engine and allow all motion to cease.
8. The manufacturer will not claim responsibility for fitment of unapproved parts and/or accessories and any damages as a result of their use.
9. Make sure all shields and guards are securely in place following all service, cleaning, or repair work.
10. Do not modify or alter this snowblower or any of its components or operating functions. If you have questions concerning modifications, consult with your dealer.
11. Do not operate a snowblower that is defective or has missing parts. Make sure that all recommended maintenance procedures are completed before operating the snowblower.
12. Check all controls regularly and adjust where necessary. Make sure that the brakes are evenly adjusted.
13. Periodically check all nuts and bolts for tightness, especially wheel hub and rim nuts.
14. To avoid serious personal injury: Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury. Do not use your hands to check for leaks. Use a piece of cardboard or paper to search for leaks. If you are injured by escaping high pressure fluid, see a medical doctor at once.
15. Stop engine and relieve pressure before connecting or disconnecting hydraulic hoses. Tighten all connections before starting engine or pressurizing hoses.

TRANSPORTATION

1. If the tractor/snowblower is to be driven on public roads, it must be equipped with an SMV (Slow Moving Vehicle) sign. Check local traffic codes that may apply to unit usage on public roads and highways in your area.
2. Be alert for all other traffic when driving the tractor/snowblower on public roads or highways.

STORAGE


1. Before storing the snowblower, certain precautions should be taken to protect it from deterioration.
2. Clean the snowblower thoroughly.
3. Make all the necessary repairs.
4. Replace all Safety Signs that are damaged, lost, or otherwise become illegible. If a part to be replaced has a sign on it, obtain a new safety sign from your dealer and install it in the same place as on the removed part.
5. Repaint all parts from which paint has worn or peeled.
6. Lubricate the snowblower as instructed under "Lubrication" section.
7. When the snowblower is dry, oil all moving parts. Apply oil liberally to all surfaces to protect against rust.
8. Attach driveline shield safety chain around driveline by passing it over the upper hitch.
9. Store in a dry place.

SAFETY DECALS

Replace immediately if damaged

5RD2500782
(ON CHUTE)

▲ DANGER ▲




To Avoid Serious Injury:
 • Keep hands out of discharge chute while engine is running.
 • Shut off engine before undocking discharge chute.

Pour Éviter Des Blessures Graves:
 • Garder les mains éloignées de la chute lorsque le moteur est en marche.
 • Arrêter le moteur avant de décrocher la chute.

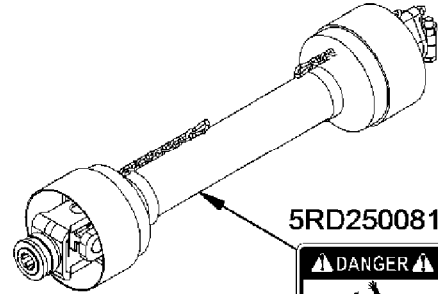
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▲ DANGER ▲



To Avoid Serious Injury:
 • Keep hands out of discharge chute while engine is running.
 • Shut off engine before undocking discharge chute.

Pour Éviter Des Blessures Graves:
 • Garder les mains éloignées de la chute lorsque le moteur est en marche.
 • Arrêter le moteur avant de décrocher la chute.



5RD2500813

▲ DANGER ▲



5RD2500813

5RD2500833
(ON CHUTE)

▲ DANGER ▲



Arbitrary force falling from discharge chute could injure. Stop engine or disconnect fuel supply before attempting to remove discharge chute without warning operator to advance.

Éviter les blessures par chute d'objets.
 Arrêter le moteur ou débrancher le carburant avant de tenter de retirer la chute sans avertir l'opérateur.

5RD2500827

▲ DANGER ▲



5RD2500827

5RD664383

▲ DANGER ▲

5RD656808


4H

STOP ENGINE BEFORE LUBRICATING. LUBRICATE CHAIN EVERY 4 HOURS WITH CLEAN SAW CHAIN LUBRICANT.

ARRÊTER LE MOTEUR AVANT L'ÉTOFFAGE. L'ÉTOFFER LA CHAÎNE À TOUTES LES 4 HEURES AVEC UN LUBRIFIANT POUR CHAÎNE.

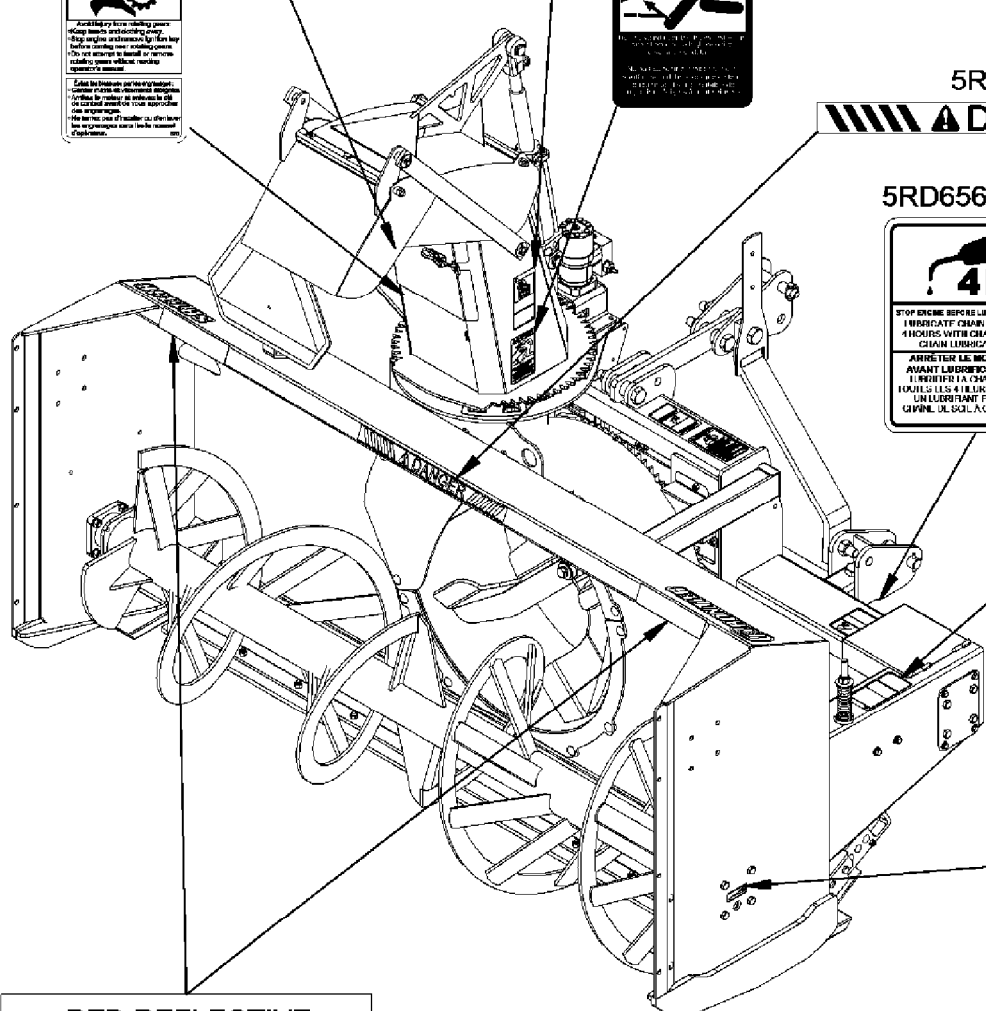
5RD2500783

▲ DANGER ▲



Avoid Injury From Rotating Auger:
 • Keep hands, feet and clothing away.
 • Shut off engine before servicing.

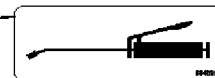
Pour Éviter Des Blessures Graves:
 • Garder les mains, les pieds et les vêtements à distance de la zone fin.
 • Arrêter le moteur avant de faire l'entretien.



RED REFLECTIVE TAPE 2" X 9"

5RD668611

5RD664391
(BOTH SIDES)



SAFETY DECALS

Replace immediately if damaged

5RD2500786

ATTENTION

Ne pas Entrer Dans l'Élévateur
Sécurité:

- Ne pas entrer dans l'élevateur.
- Éviter de tomber ou de se faire heurter. Ne pas se tenir sur les bras ou les jambes.
- Ne pas laisser les pieds ou les mains à l'extérieur de l'élevateur.
- Ne pas laisser les pieds ou les mains à l'extérieur de l'élevateur.
- Ne pas laisser les pieds ou les mains à l'extérieur de l'élevateur.

5RD2500794

WARNING



Falling Off Or Being Injured
Prevention:

- Do not enter the lift.
- Do not stand on the lift.
- Do not lean over the lift.
- Do not reach over the lift.

5RD2500795

MISE EN GARDE



Tomber De l'Élévateur
Prévention:

- Ne pas entrer dans l'élevateur.
- Ne pas se tenir sur l'élevateur.
- Ne pas se pencher sur l'élevateur.
- Ne pas atteindre au-dessus de l'élevateur.

5RD2500783

DANGER



Avoid Injury From Rotating Asper:
 • Keep hands, feet and clothing away.
 • Do not engage before servicing.

5RD2500785

CAUTION

To Avoid Serious Injury:

- Do not touch the lift when it is in motion.
- Do not touch the lift when it is in motion.
- Do not touch the lift when it is in motion.

5RD2500622 **SB1388**

5RD668612
YELLOW REFLECTIVE TAPE 2" X 9"

5RD2500868
FRONTIER

5RD668612
YELLOW REFLECTIVE TAPE 2" X 9"

5RD2500933

5RD655834

IMPORTANT
 • Do not touch the lift when it is in motion.

5RD2500792

DANGER



Avoid Injury From Rotating Asper:
 • Keep hands, feet and clothing away.
 • Do not engage before servicing.

5RD2500791

WARNING



Avoid Injury From Rotating Asper:
 • Keep hands, feet and clothing away.
 • Do not engage before servicing.

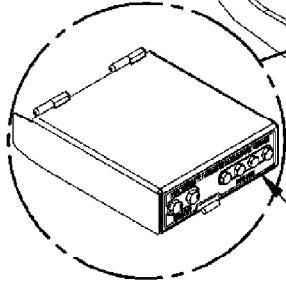
5RD2500833

DANGER



Avoid Injury From Rotating Asper:
 • Keep hands, feet and clothing away.
 • Do not engage before servicing.

5RD2500935
SPARE SHEAR BOLTS / BOLLONS DE CISELLEMENT DE RECHANGE
 5RD657799 5RD668029



ASSEMBLY

TRACTOR PREPARATION

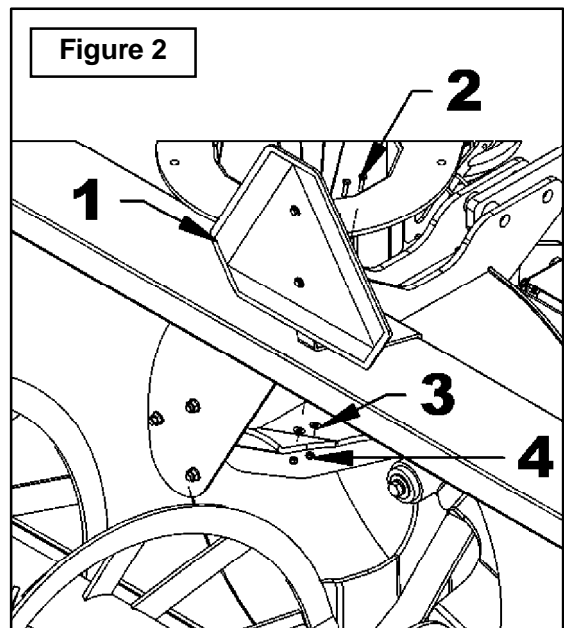
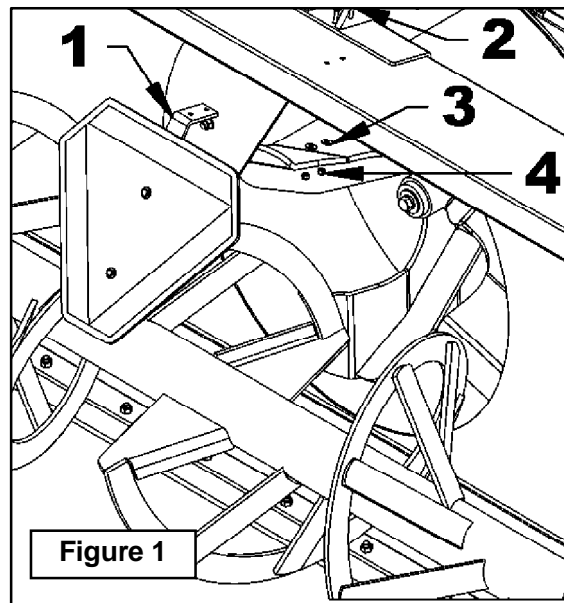
See Dealer for Tractor Preparation information.

SNOWBLOWER ASSEMBLY

The snowblower is assembled at the factory except for the parts in the hardware bag provided with the snowblower, the chute and the options if appropriate. Use the present manual and lay out all parts for assembly. Separate bolts and nuts into various sizes. After assembly, torque all the bolts according to the **Torque Specification Table** at the end of the manual.

Installation of the Slow Motion Vehicle Sign (if not installed) (Figures 1-2)

1. **Figure 1:** Remove the two 1/4"NC x 1" bolts, flat washers and nylon insert lock nuts (items 2-3-4) that hold the SMV sign (item 1) to the frame. Keep hardware.
2. **Figure 2:** Reinstall the support of the SMV sign (item 1) on the snowblower, as shown in figure, with the two 1/4"NC x 1" bolts, flat washers and nylon insert lock nuts (items 2-3-4).





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ASSEMBLY

Installation of Three Point Hitch (Figures 3-4)

NOTE: Do not tighten the bolts during assembly. The bolts are tightened to the last step.

NOTE: The three point hitch can be installed in two positions; close to the tractor or distant.

➤ A close adjustment gives better handling for the tractor and snowblower, but decreases the life of the PTO shaft.

➤ A distant adjustment increases the life of the PTO shaft, but less maneuverability.

1. **Figure 3:** Install the lower hitches (item 1) on snowblower using two reinforcement plates (item 2) under the each hitches and secure with six 3/4"NC x 5 1/2" bolts, 3/4" lockwashers and 3/4" nylon insert lock nuts (items 3-4-5).

2. **Figure 3:** Install the brace (item 6) under the lower hitches (item 1) with two 7/8" NC x 5" bolts (item 7), lockwashers and nylon insert nuts (items 8-9).

3. **Figure 4:** Attach the right and left hitches (items 1-2) to the lower hitches (figure 3, items 1) as illustrated. Secure with two 7/8"NC x 2 1/2" bolts and stover lock nuts (items 3-4).

4. **Figure 4:** Attach the upper hitch (item 5) to the snowblower using a 7/8" NC x 5" bolt and a 7/8" stover lock nut (items 6-7).

5. **Figure 4:** Attach each right and left hitches (items 1-2) to the upper hitch (item 5) with a 7/8"NC x 5" bolt and 7/8" stover lock nut (items 6-7).

6. **Figure 4:** Attach the hose support (item 9) to the left hitch (item 1) and the upper hitch (item 5) as illustrated using a 7/8"NC x 6" bolt and 7/8" stover lock nut (items 8-7).

7. Tighten all bolts.

Figure 3

Figure 4

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