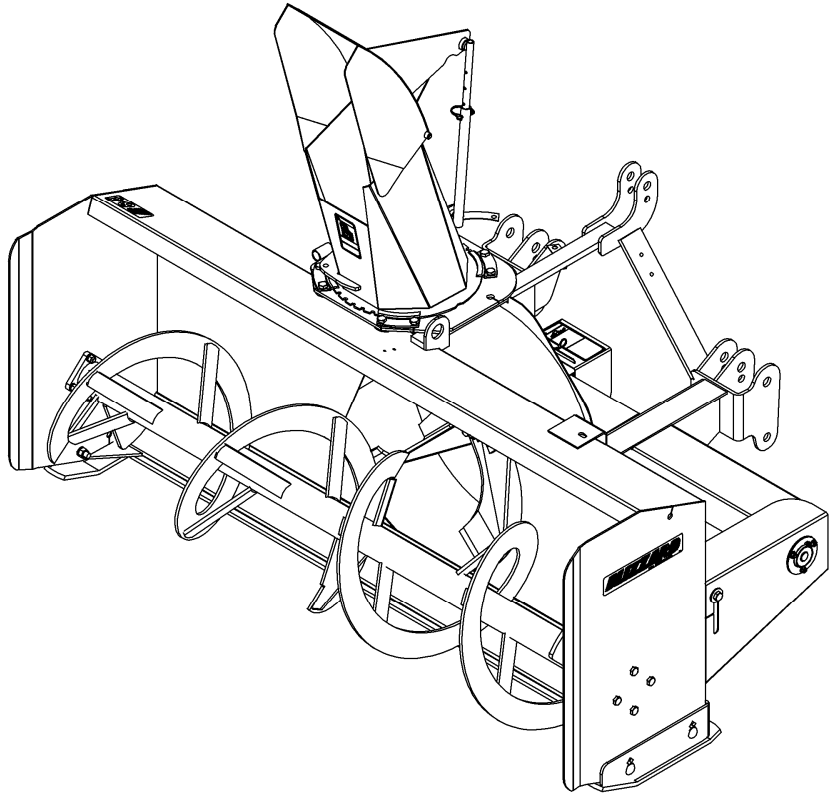


BLIZZARD



OPERATOR'S AND PARTS MANUAL

SNOWBLOWER B84A & B94 MODELS

also covers
SMT106505 SER#

→ SERIAL NO SJT12509 AND UP

OM 0331-A
10/09



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INTRODUCTION

TO THE PURCHASER

All BER-VAC and BLIZZARD 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.

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.

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 standing behind the machine.

MODEL: _____

SERIAL NUMBER: _____




DATE OF PURCHASE: _____

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 immediately 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

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.

SAFETY PRECAUTIONS - continued

Snowblower Operation

1. Before leaving the tractor unattended, take all possible precautions. Disengage the PTO, stop the engine and remove the ignition key. Lower the implement to the ground.
2. Before starting the snowblower, remove any ice that has accumulated in the auger/impeller.
3. Watch carefully for foreign objects that could enter the blower while operating.
4. Be sure the clutch switch/lever is in OFF 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. Do not carry passengers.
6. Never carry passengers.
7. Adjust collector housing height to clear gravel or crushed rock surface.
8. Do not put hands or feet near rotation parts. Keep clear of discharge opening at all times.
9. Stop the engine, remove the key, and allow the rotating parts to stop before unclogging the collector/impeller housing or chute, and making any repairs, adjustments or inspections. Use only a 36" long piece of wood to unclog blower.
10. If the snowblower starts to vibrate abnormally, stop the engine immediately and check for cause. Excessive vibration is generally a sign of trouble.
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. Exercise extreme caution when changing direction on slopes. Do not attempt to operate on steep slopes.
13. Never operate snowblower without guards, and other safety protective devices in place.
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. Do not direct discharge at bystanders or animals. Ejected objects may cause injury.
18. Disengage power to auger/impeller when transporting or when not in use.
19. Never operate the snowblower without good visibility and lighting.
20. 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
21. Never allow anyone to remain close to the working area.

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. Adopt safe driving habits: If the tractor is equipped with independent brake pedals (left side/right side), always lock the brake pedals together unless independent braking is required. Never use independent braking during transport.
3. Always drive at a safe speed according to your local regulation and make sure to drive at a speed that will allow for safe emergency stops.
4. Reduce speed before turning to avoid tipping the tractor. Keep a minimal speed.
5. Always keep the tractor engaged when going down a slope. Never go down in neutral..
6. Never allow an open flame near the fuel tank or battery.
7. Make sure the shield is installed when using a PTO-driven equipment and always replace the shield if damaged.
8. 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.
9. Never park the tractor on a steep slope.
10. Do not attempt to operate on steep slopes. Avoid sudden turns when going up a steep slope.
11. Handle fuel with care, as it is highly flammable.
12. Use approved fuel container.
13. Never add fuel to a running engine or a hot engine.
14. Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors. Replace fuel cap securely and wipe up spilled fuel.
15. Never allow anyone to operate the snowblower until they are thoroughly familiar with basic tractor and snowblower operation.
16. Make sure the tractor is counterweighted as recommended by your dealer. Weights provide the necessary balance to prevent tip-over or loss of traction or steering.
17. Always make sure all snowblower components are properly installed and securely fastened BEFORE operation.
18. Never attempt to start the engine or engage the snowblower while standing beside the tractor.
19. Always start the engine when sitting on the driver's seat. Place all transmission and snowblower levers in neutral.
20. NEVER bypass the starter security mechanism by short-circuiting the starter terminals to start the engine. The tractor could move suddenly.
21. If the starter's security mechanism is not functional, see your dealer immediately.

SAFETY PRECAUTIONS- continued

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.
6. Look carefully at the ground and the work area. Note the holes, rocks or other hidden obstacles. **ALWAYS** check the work area before using the snowblower.
7. **NEVER** operate the snowblower near ditches or embankments.
8. **NEVER** operate the snowblower in steep slopes due to the risk of tipping over.
9. Work going up and down, not sideways, in intermediate slopes.
10. Back up steeper slopes with the snowblower disengaged then engage while going down.
11. Slow down before changing directions on a slope.
12. Make sure the tractor is counterweighted as recommended by your dealer. Weights provide the necessary balance to prevent tip-over or loss of traction or steering.
13. Never stand besides the snowblower when the engine is on.

Roll-Over Protective Structure (ROPS)

1. **DO NOT** weld, drill or alter the ROPS. Damaged ROPS must not be straightened or used. If damage does occur, consult your dealer.
2. If the ROPS is lowered or removed from the tractor for any reason, it must be erected and/or refitted immediately. Original bolts or equivalent replacements must be used and tightened to the correct torque.
3. Your dealer does not recommend usage of tractor with ROPS removed.
4. If a fold-down ROPS is used, the ROPS can be folded down for storage, but it must be pinned in the upright position prior to operation.
5. Seat belt usage: With ROPS installed on the tractor it is imperative that the seat belt be installed, used and correctly adjusted, at all times. **DO NOT** use a seat belt if operating without ROPS.

Additional Safety Equipment

Keep a fire extinguisher and a first hand kit within reach.

TRANSPORT

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.
3. Always disengage the snowblower before transport.

SAFETY PRECAUTIONS

MAINTENANCE

1. Park the tractor/snowblower on level ground, set the parking brake, disengage the PTO, shut off the engine, remove the key, and lower the implement to the ground BEFORE making any snowblower adjustments.
2. To avoid injury, do not adjust, unclog or service the snowblower with the tractor engine running. Making sure rotating components have completely stopped before leaving the operator's seat
3. Keep the tractor/snowblower clean. Snow and ice build-up can lead to malfunction or personal injury from thawing and refreezing in garage.
4. Always wear eye protection when cleaning or servicing the snowblower.
5. Service the unit in safety: 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 unit with blower raised, 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.
6. Do not attempt to service machine, clear obstructions or unplug blockages with the engine running. Always shut off engine and allow all motion to cease.
7. The manufacturer will not claim responsibility for fitment of unapproved parts and/or accessories and any damages as a result of their use.
8. Make sure all shields and guards are securely in place following all service, cleaning, or repair work.
9. Do not modify or alter this equipment or any of its components or operating functions. If you have questions concerning modifications, consult with your dealer.
10. Do not operate a unit which is defective or has missing parts. Make sure that all recommended maintenance procedures are completed before operating the unit.
11. Check all controls regularly and adjust where necessary. Make sure that the brakes are evenly adjusted.
12. Periodically check all nuts and bolts for tightness, especially wheel hub and rim nuts.
13. Snowblower fan and auger must be checked for tightness. Remove any twine, wire, etc. that may have wrapped on the fan or the auger.
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.
15. Stop engine and relieve pressure before connecting or disconnecting lines. Tighten all connections before starting engine or pressurizing lines.

STORAGE

Before storing the snowblower, certain precautions should be taken to protect it from deterioration.

1. Clean the snowblower thoroughly.
2. Make all the necessary repairs.
3. 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.
4. Repaint all parts from which paint has worn or peeled.
5. Lubricate the snowblower as instructed under "**Lubrication**" section.
6. When the snowblower is dry, oil all moving parts. Apply oil liberally to all surfaces to protect against rust.
7. Attach driveline shield safety chain around driveline by passing it over the upper hitch
8. Store in a dry place.

DECALS

Replace immediately if damaged.

WARNING

FAILURE TO FOLLOW SAFE OPERATING PROCEDURES MAY RESULT IN INJURY.

- FOR SAFE OPERATION FOLLOW ALL OPERATING INSTRUCTIONS AND SAFETY PRECAUTIONS IN OPERATOR'S MANUAL.
- EYE PROTECTION MUST BE WORN AT ALL TIMES.
- KEEP HANDS, FEET AND CLOTHING AWAY FROM POWER DRIVEN PARTS.
- STOP ENGINE BEFORE LEAVING OPERATOR POSITION.
- WAIT FOR ALL MOVEMENTS TO STOP BEFORE STARTING TO ADJUST, LUBRICATE, CLEAN OR REWIND THE MACHINE.
- KEEP THE AREA OF OPERATION CLEAR OF ALL PERSONS AND ANIMALS.
- KEEP ALL GUARDS AND SHIELDS IN PLACE.
- NEVER DIRECT DISCHARGE TOWARD BYSTANDERS, BUILDINGS, CARS ETC.
- ALWAYS USE A DUST MASK WHEN WORKING IN DUSTY CONDITIONS.
- KEEP PLASTIC MATERIALS AWAY FROM INTENSE HEAT AND OPEN FLAME.
- NEVER ALLOW PASSENGERS ON THE ATTACHMENT.

660988

Included with Option 8046

DANGER

CONTACT DURING USE WILL RESULT IN SERIOUS INJURIES.
TOUT CONTACT PENDANT L'UTILISATION CAUSERA DES BLESSURES GRAVES.

664548

DANGER

TO AVOID SERIOUS INJURY: KEEP HANDS OUT OF THIS DISCHARGE CHUTE WHILE ENGINE IS RUNNING
POUR ÉVITER DES BLESSURES GRAVES: GARDER LES MAINS ÉLOIGNÉES DE CETTE GOULOTTE LORSQUE LE MOTEUR EST EN MARCHÉ 88

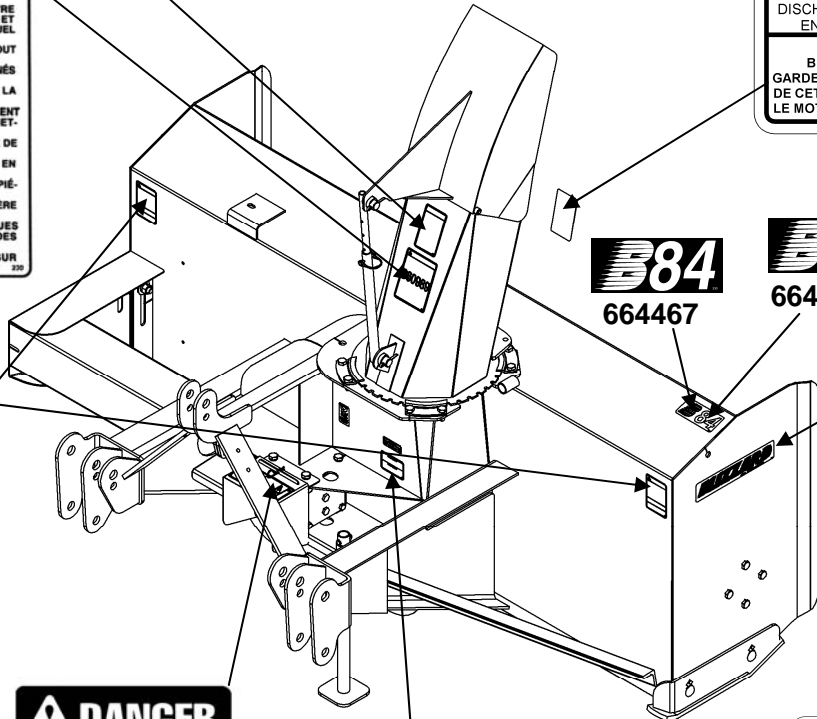
656779

MISE EN GARDE

NÉGLIGER DE SUIVRE LES PROCÉDURES SÉCURITAIRES D'UTILISATION PEUT ENTRAÎNER DES BLESSURES.

- POUR UNE UTILISATION SÉCURITAIRE, SUIVRE TOUTES LES INSTRUCTIONS D'UTILISATION ET PRÉCAUTIONS SÉCURITAIRES DANS LE MANUEL DE L'OPÉRATEUR.
- PORTER DES LUNETTES DE SÉCURITÉ EN TOUT TEMPS.
- GARDER MAINS, PIEDS ET VÊTEMENTS ÉLOIGNÉS DES PIÈCES MOTRICES.
- ARRÊTER LE MOTEUR AVANT DE QUITTER LA POSITION DE L'OPÉRATEUR.
- ATTENDRE QUE TOUTS LES MOUVEMENTS SOIENT ARRÊTÉS AVANT D'AJUSTER, LUBRIFIER, NETTOYER OU DÉBLOQUER LA MACHINE.
- GARDER L'ENDROIT D'UTILISATION DÉGAGÉ DE TOUTES PERSONNES ET ANIMAUX.
- GARDER TOUS LES ÉCRANS PROTECTEURS EN PLACE.
- JAMAIS DIRIGER L'ÉVACUATION VERS DES PIÉTONS, BÂTIMENTS, AUTOMOBILES, ETC.
- TOUJOURS UTILISER UN MASQUE À POUSSIÈRE DANS UN ENVIRONNEMENT POUSSIÉREUX.
- GARDER TOUTES LES MATIÈRES PLASTIQUES ÉLOIGNÉES DE LA CHALEUR INTENSE ET DES FLAMMES.
- NE JAMAIS PERMETTRE DE PASSAGERS SUR CETTE MACHINE.

660989



DANGER

AVOID INJURY FROM ROTATING AUGER
KEEP HANDS, FEET AND CLOTHING AWAY
POUR ÉVITER DES BLESSURES GRAVES: GARDER LES MAINS, LES PIEDS ET LES VÊTEMENTS ÉLOIGNÉS DES VIS SANS FIN

656780

DANGER

ROTATING DRIVELINE
CONTACT CAN CAUSE DEATH KEEP PEOPLE AND CLOTHING WELL CLEAR
DO NOT OPERATE WITHOUT
- ALL DRIVELINE, TRACTOR AND EQUIPMENT SHIELDS IN PLACE
- DRIVELINES SECURELY ATTACHED AT BOTH ENDS
- DRIVELINE SHIELDS THAT TURN FREELY ON DRIVELINE

TRANSMISSION ROTATIVE À CARDAN
TOUT CONTACT PEUT CAUSER LA MORT
TENIR LES VÊTEMENTS ET PERSONNES À L'ÉCART
NE PAS OPÉRER SANS
- QUE TOUTS LES PROTECTEURS DU TRACTEUR, DE L'ÉQUIPEMENT ET DE L'ARBRE À CARDAN SOIENT EN PLACE.
- L'ARBRE À CARDAN FIXÉ SOLIDEMENT À CHAQUE BOUT
- QUE LES PROTECTEURS TOURNENT LIBREMENT SUR L'ARBRE À CARDAN

656781

IMPORTANT

Before using:
- Oil level must be checked
- Fill with SAE 80W90, "AGMA 5 EP" extreme pressure oil or equivalent
- Read instructions manual

IMPORTANT

Avant usage:
- Vérifier le niveau d'huile
- Remplir avec de l'huile SAE 80W90, "AGMA 5EP" pression extrême ou équivalent
- Lire manuel d'instructions

655834

B84 664467

B94 664459

BLIZZARD 664458

DANGER

ROTATING DRIVELINE CONTACT CAN CAUSE DEATH KEEP AWAY!
DO NOT OPERATE WITHOUT ALL DRIVELINE, TRACTOR AND EQUIPMENT SHIELDS IN PLACE. DRIVELINES SECURELY ATTACHED AT BOTH ENDS. DRIVELINE SHIELDS THAT TURN FREELY ON DRIVELINE.

ARBRE DE TRANSMISSION TOUT CONTACT PEUT CAUSER LA MORT. NE PAS OPÉRER SANS: LES ÉLÉMENTS PROTECTEURS DE L'ARBRE DE TRANSMISSION, DU TRACTEUR ET DE LA MACHINE. FIXER SÉCURITAIREMENT LES OILES EXTÉRIEURES DE L'ARBRE DE TRANSMISSION. S'ASSURER QUE LES ÉLÉMENTS PROTECTEURS TOURNENT LIBREMENT SUR L'ARBRE DE TRANSMISSION.

75000216

MADE IN ITALY

5RD2500813

ASSEMBLY

SNOWBLOWER ASSEMBLY

The snowblower is assembled at the factory, however, snowblower kits must be assembled. 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 enclosed at the end of the manual.

Chute Installation

Install chute according to the instructions supplied with the chosen rotation – manual or hydraulic.

Snowblower Installation with a Three Point Hitch (Figures 1-2)

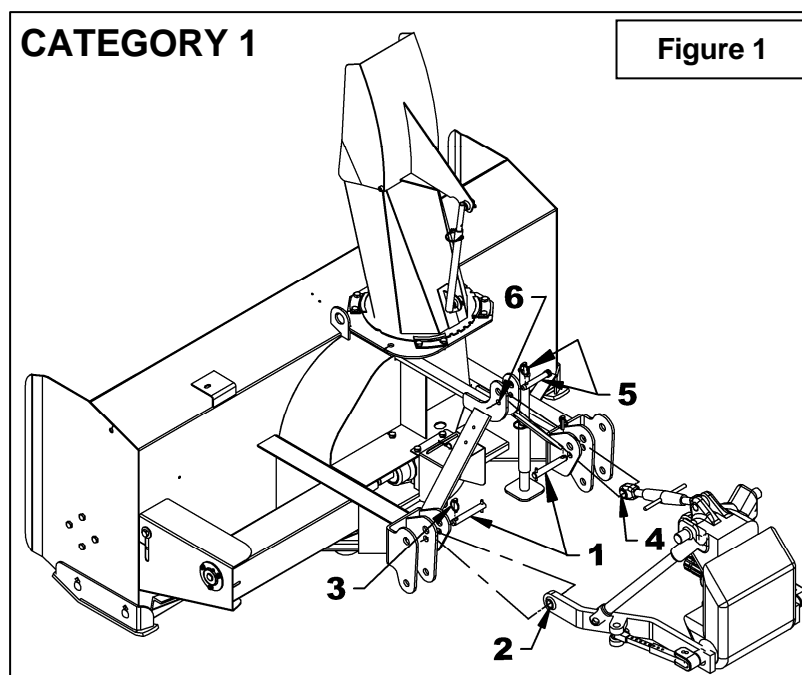
CATEGORY 1 – B84 only (Figure 1)

1. Install the two cat.1 pins (item 1) on the right and left snowblower hitches in the lower holes of the **inside** plates as shown on figure.
2. Attach tractor lower links (item 2) to the snowblower hitch pins (item 1) and secure with the linchpins (item 3).
3. Attach the tractor upper link (item 4) between the upper attaching plates (item 6) using the pin and linchpin (item 5 – not included).
4. Adjust the snowblower using the tractor upper link so that the snowblower runs parallel to the ground.
5. Set the tractor anti-sway turnbuckles so the snowblower does not sway making sure there is no contact with the tires.



CAUTION

Before connecting snowblower driveline to tractor drive shaft, make sure driveline is not too long in raised, lowered and middle position. If the driveline is too long it must be shortened, to avoid damaged to tractor. See pages 14 to 16 for instructions.



ASSEMBLY

CATEGORY 2 – B84 & B94

(Figure 2)

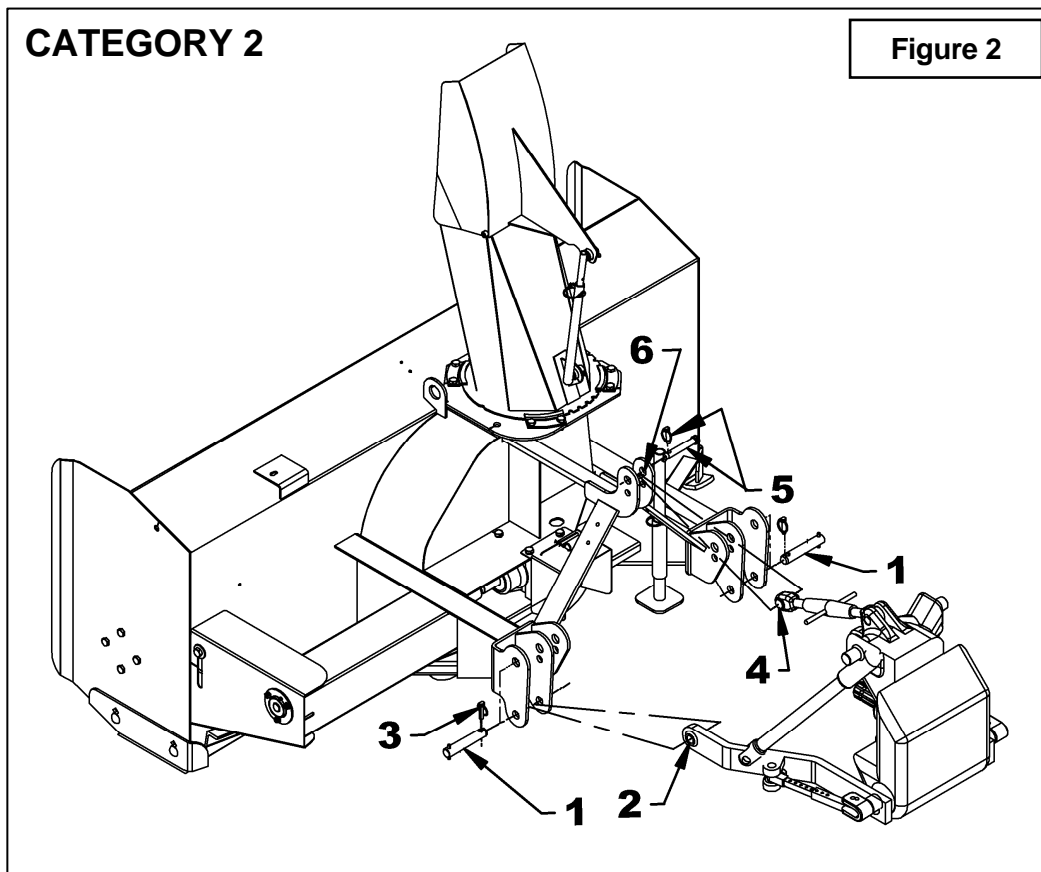
1. Install the two Cat. 2 pins (item 1) on the right and left snowblower hitches in the lower holes of the **outside** plates as shown on figure.
2. Attach tractor lower links (item 2) to the snowblower hitch pins (item 1) and secure with the linchpins (item 3).
3. Attach the tractor upper link (item 4) between the upper attaching plates (item 6) using the tractor pin and linchpin (item 5 – not included).
4. Adjust the snowblower using the tractor upper link so that the snowblower runs parallel to the ground.

5. Set the tractor anti-sway turnbuckles so the snowblower does not sway making sure there is no contact with the tires.



CAUTION

Before connecting snowblower driveline to tractor drive shaft, make sure driveline is not too long in raised, lowered and middle position. If the driveline is too long it must be shortened, to avoid damaged to tractor. See pages 14 to 16 for instructions.



ASSEMBLY

Installation of Snowblower with Quick Hitch

(Figures 3-4)

CATEGORY 1 – B84 only

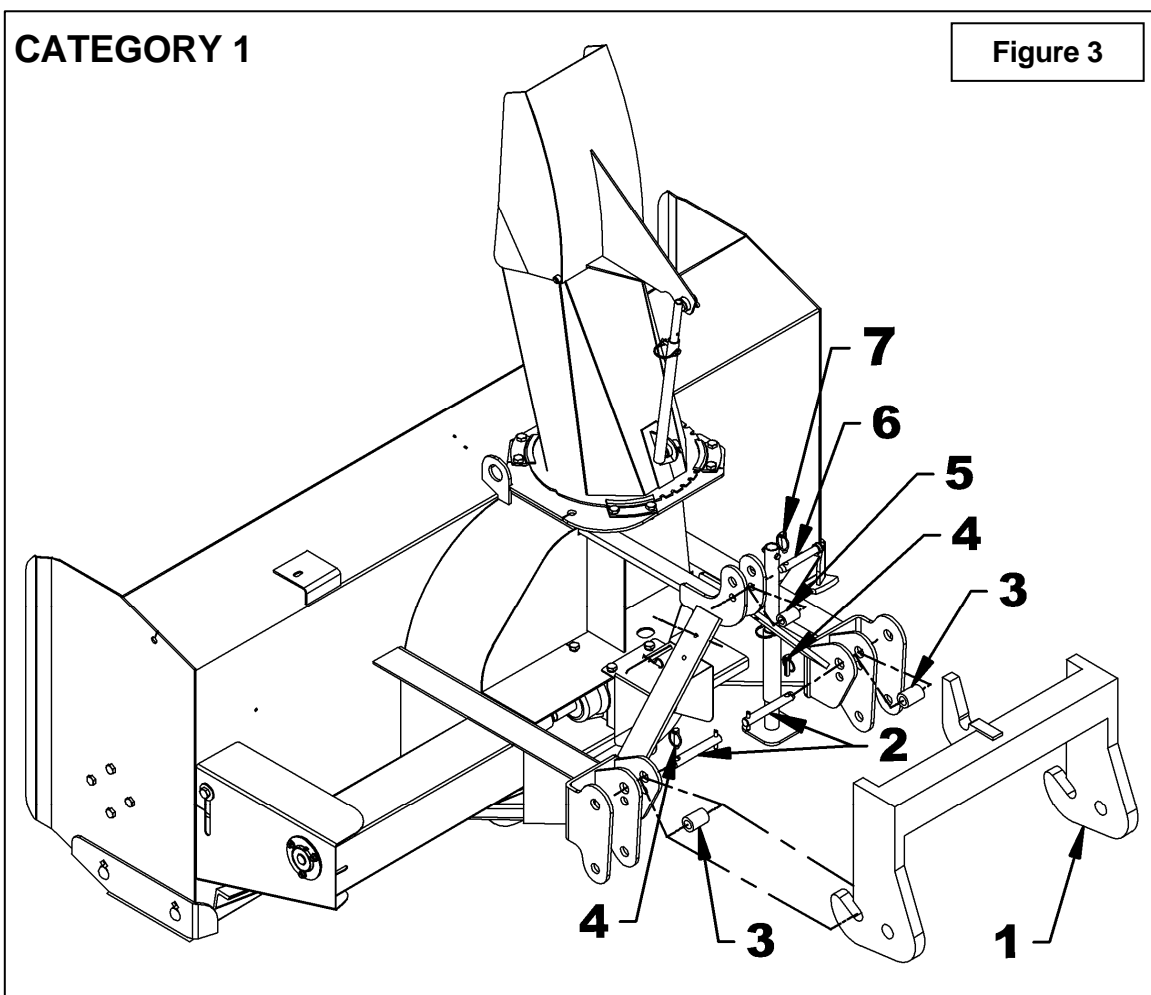
(Figure 3)

1. Place two 1 1/2" x 2 1/8" lg bushings (item 3, not included) between upper holes of the interior and middle plates, insert the 1 1/8" x 6 1/4" lg cat.2 pins (item 2) from the inside and lock in place with 7/16" linchpins (items 4).
2. Insert a 1 7/8" lg bushing (item 5, not included) between the upper attaching plates and lock in place with the 3/4" x 5 7/16" pin and a 7/16" linchpin (items 6-7, not included).



CAUTION

Before connecting snowblower driveline to tractor drive shaft, make sure driveline is not too long in raised, lowered and middle position. If the driveline is too long it must be shortened, to avoid damaged to tractor. See pages 14 to 16 for instructions.



ASSEMBLY

CATEGORY 2 – B84 & B94

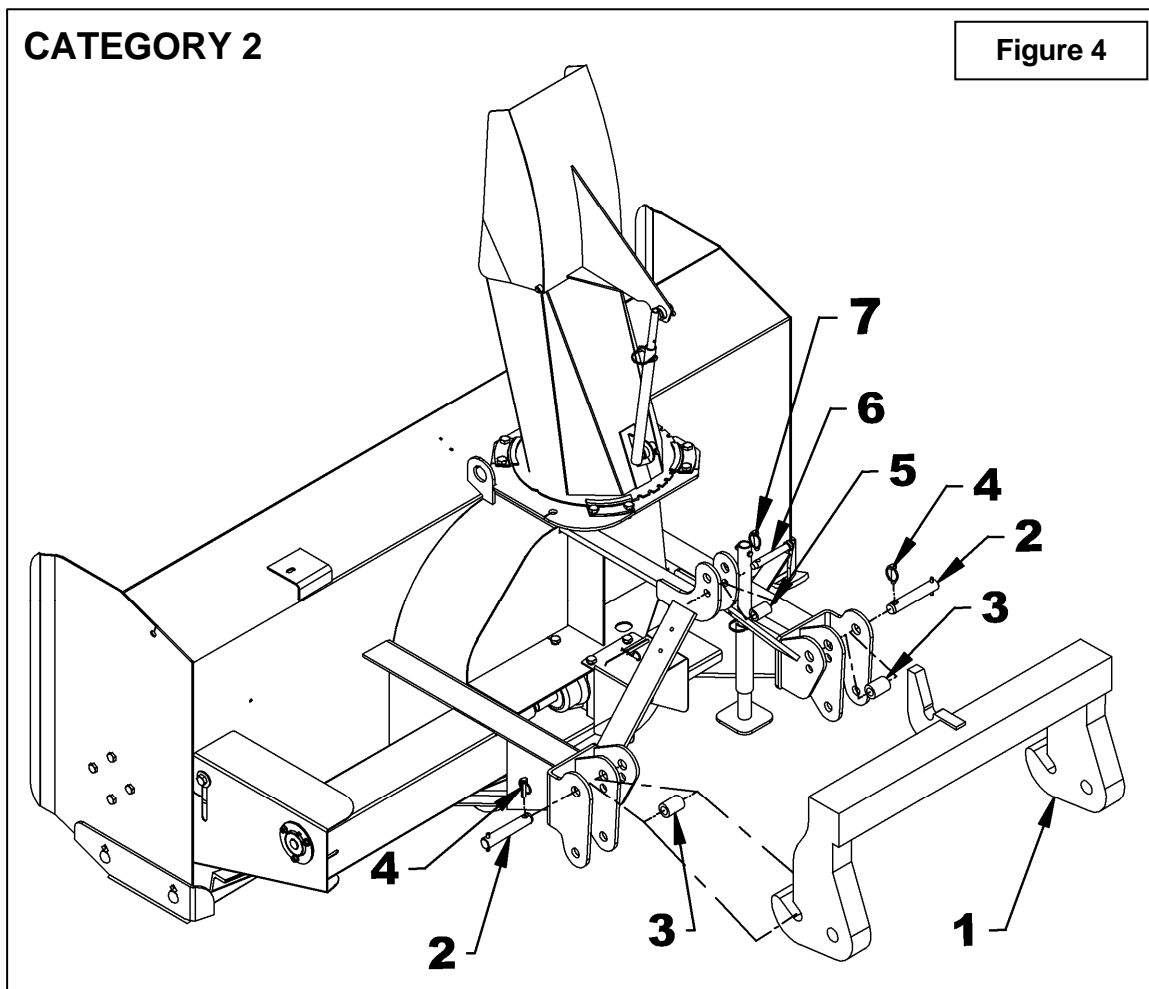
(Figure 4)

1. Place the two 1 1/2" x 3 3/8" lg bushings (item 3) between upper holes of the exterior and middle plates, insert the 1 1/8" x 6 1/4" lg cat.2 pins (item 2) **from the outside** and lock in place with 7/16" linchpins (items 4).
2. Insert the 1 7/8" lg bushing (item 5) between the upper attaching plates and lock in place with the 3/4" x 5 7/16" pin and a 7/16" linchpin (items 6-7).



CAUTION

Before connecting snowblower driveline to tractor drive shaft, make sure driveline is not too long in raised, lowered and middle position. If the driveline is too long it must be shortened, to avoid damaged to tractor. See pages 14 to 16 for instructions.



ASSEMBLY

IMPORTANT:

A proper initial installation will give you years of satisfactory service on your equipment. Please read carefully following instructions that have been specially included to help you and ensure you are satisfied with your purchase.

WARNING: Unfortunately, snowblowers will be faced with forgotten or hidden objects under the snow, such as : chain, tires, stones, pieces of wood, etc. In spite of all our efforts, machines are not built to resist all those conditions.

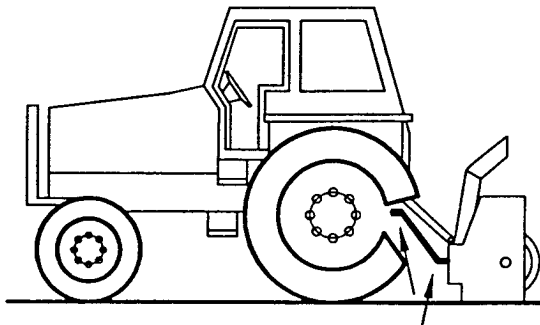
How to Determine Driveline Angles

IMPORTANT: To obtain the proper universal joint angles, it is recommended to adjust the three point hitch at the furthest point from the tractor recommended by the manufacturer

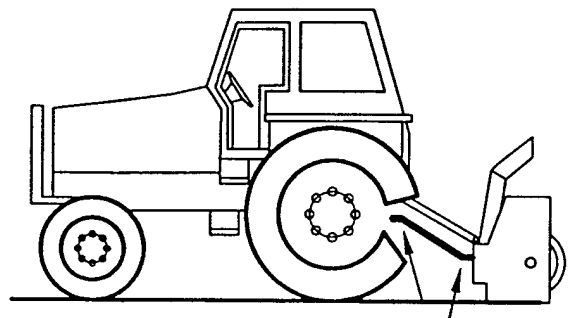
Danger: Tractors Too Big

It is dangerous to use a tractor that is too big and powerful. The tractor will always be able to overload the blower, even if the machine is already at maximum capacity. Furthermore, tractors being very high, the driveline angles will be excessive which means the universal joints will be very vulnerable and the life of the driveline will be dramatically reduced.

The universal joint angle is directly related with the life of driveline. In order to reduce the angle, it is necessary to increase the distance between the snowblower and the tractor.

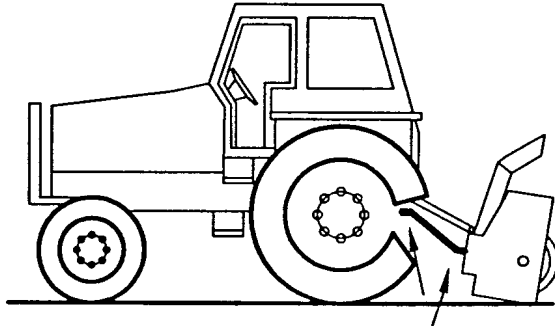


Angles of Driveline Joints Too Large
Avoid

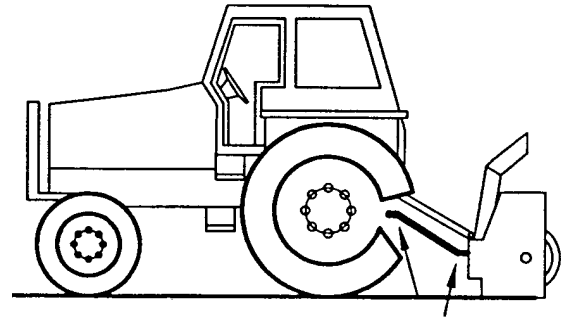


Reasonable Angles of Driveline Joints
Acceptable

ASSEMBLY



Unequal Angles at Driveline Joints
Avoid



Equal Angles at Driveline Joints
Recommended

Angles at Each End of Driveline

A popular habit is to change the snowblower angle in order to obtain a better scraping effect. This practice can become harmful to the driveline since the angle at each end is unequal. This results in a fan speed variation as well as a drastic increase of load on cross and bearings. To be avoided: It is recommended to always keep tractor driveline and snowblower input shaft parallel.

Determining Driveline Length

IMPORTANT: Before using the equipment, make sure the driveline is not too long. At working position, the two half drivelines must intersect each other sufficiently to insure maximum efficiency but there must not be any interference.

1. To determine the "L" length for your tractor model first find the "X" factor by measuring the horizontal distance between the end of the tractor's drive shaft and the end of the snowblower's driven shaft when the snowblower is in transport position as shown on **Figure 5**.
2. Choose in the table below the "Y" factor according to the tractor category and deduct that number from "X" to determine "L" which is the center-to-center length between the universal joints.

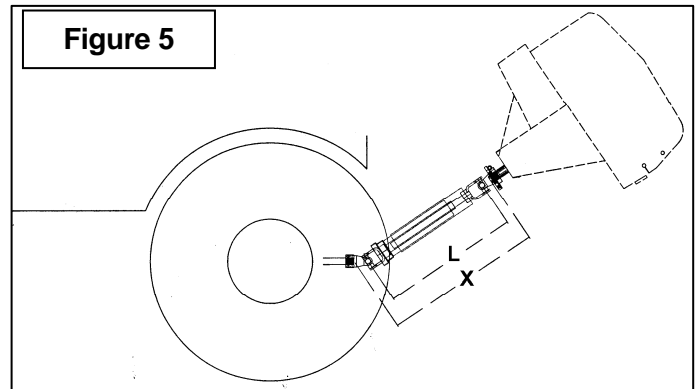


Figure 5

L = X - Y	
3 PTS HITCH CATEGORY	Y
Cat. 1	4 1/2"
Cat. 2	5 1/2"

ASSEMBLY

NOTE: Before cutting, make sure the two shafts intersect by at least 7 3/4" when in working position that is when the snowblower rests on the ground.

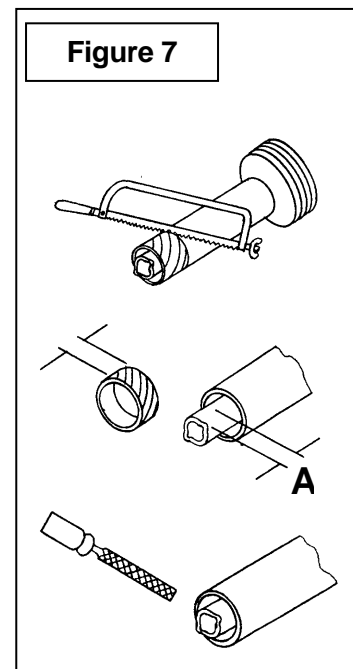
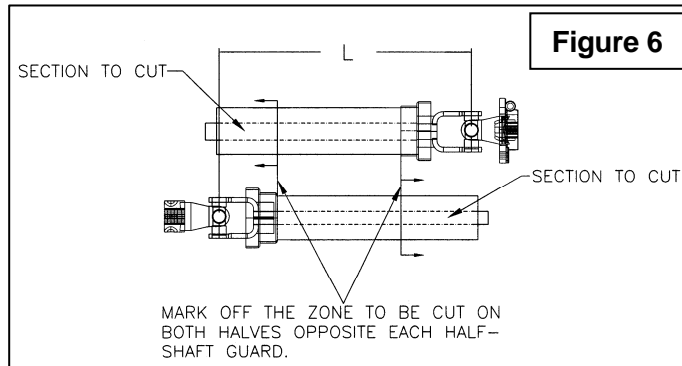
3. Hold the two half-shaft side by side and locate the "L" length between the two center-to-center half-shaft universal joints. Mark off the zone to be cut on both halves opposite each half-shaft guard as shown on **Figure 6**.
4. Cut off inner and outer guard tubes as well as the inner and outer telescopic sections.

5. Cut the guard a second time leaving the same distance between the end of the guard and the end of the shaft as existed before. To obtain the proper distance "A" shown on **Figure 7**, cut the guard according to the following table:

DISTANCE A	
Male PTO	Female PTO
1 3/4"	1 1/4"

6. File down tubes and remove chips.
7. Apply grease to inside of outer telescopic section.

IMPORTANT: Work with fully guarded shafts only!

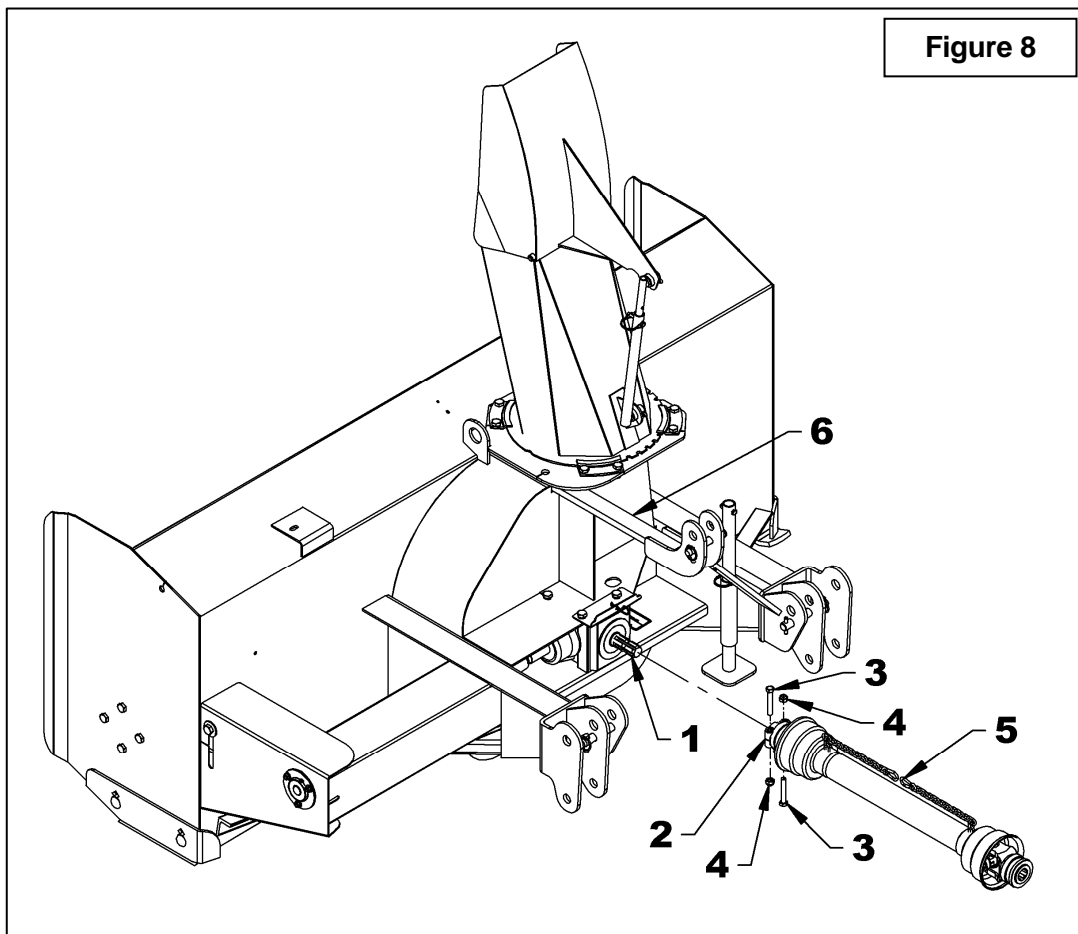


ASSEMBLY

Driveline Installation

(Figure 8)

1. Separate the snowblower from the three point or quick hitch.
2. Remove paint from snowblower gearbox shaft (item 1) and grease driveline sliding surfaces and yoke (item 2).
3. Remove the bolts (items 3) from the driveline yoke (item 2) and slide yoke over drive shaft using the sliding action of the driveline. Make sure the driveline is well secured to the shaft by reinstalling the bolts and nuts (item 3-4) in the order shown. Tighten the bolts according to the **Torque Specification Table** on page 36.
4. Attach safety chain (item 5) around the upper link (item 6) to prevent the guard from spinning.



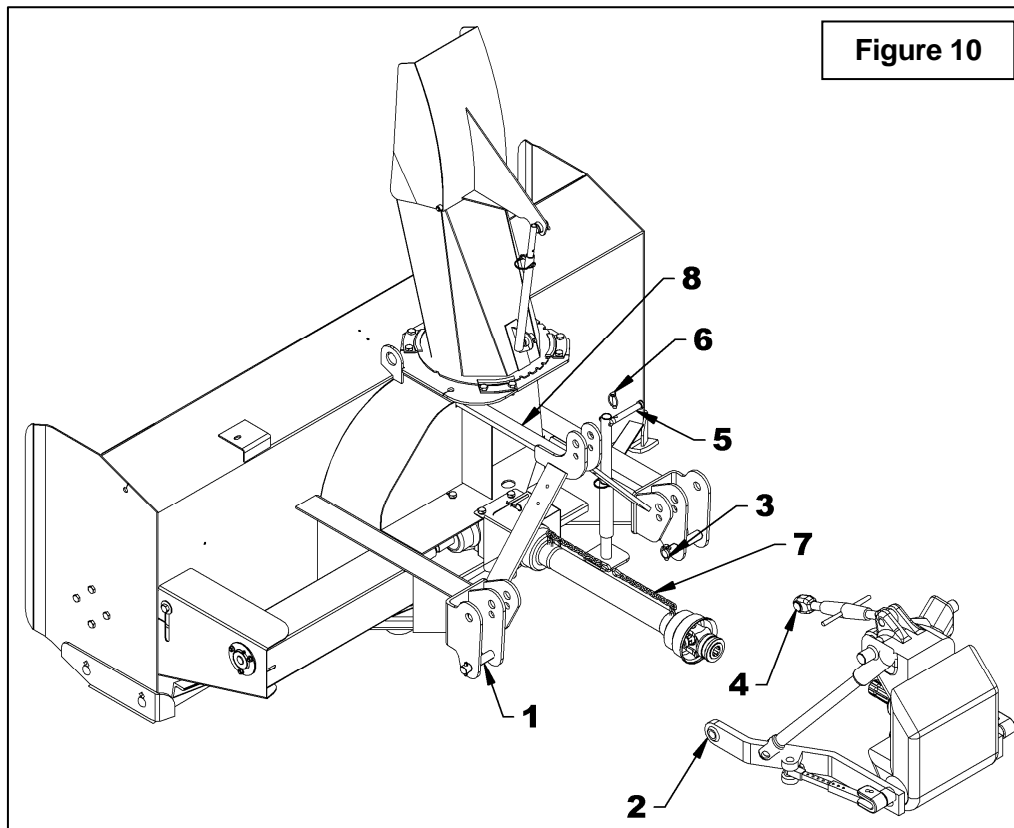
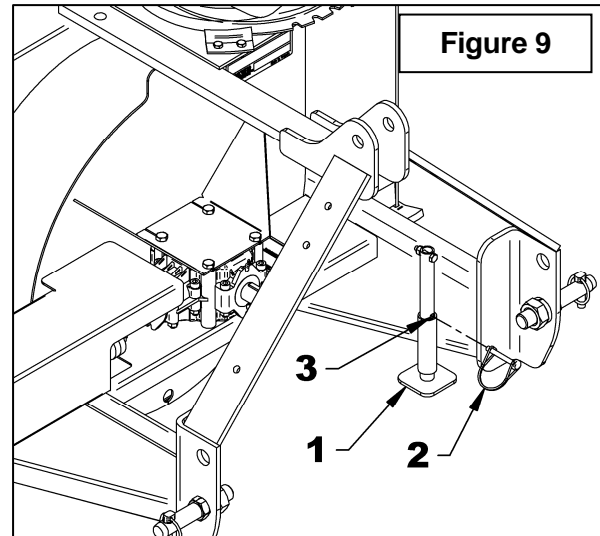
ASSEMBLY

Removing Snowblower from Tractor (Figures 9-10-11)

Three Point Hitch

1. Set parking brake and turn engine off.
2. **Figure 9:** Remove the wire round lock pin (item 2), lower the parking stand (item 1) completely to the ground to release all pressure from the three-point and reinsert the wire round lock pin in the lower hole (item 3).
3. **Figure 10:** Detach upper link (item 4) by removing linchpin and pin (items 6-5).
4. **Figure 10:** Disconnect driveline from tractor and attach the driveline safety chain (item 7) around the upper hitch (item 8).
5. **Figure 10:** Carefully detach lower links (items 2) from hitch pins (item 1) by removing linchpins (items 3), loosen anti-sway turnbuckles and slowly back tractor away from the snowblower.

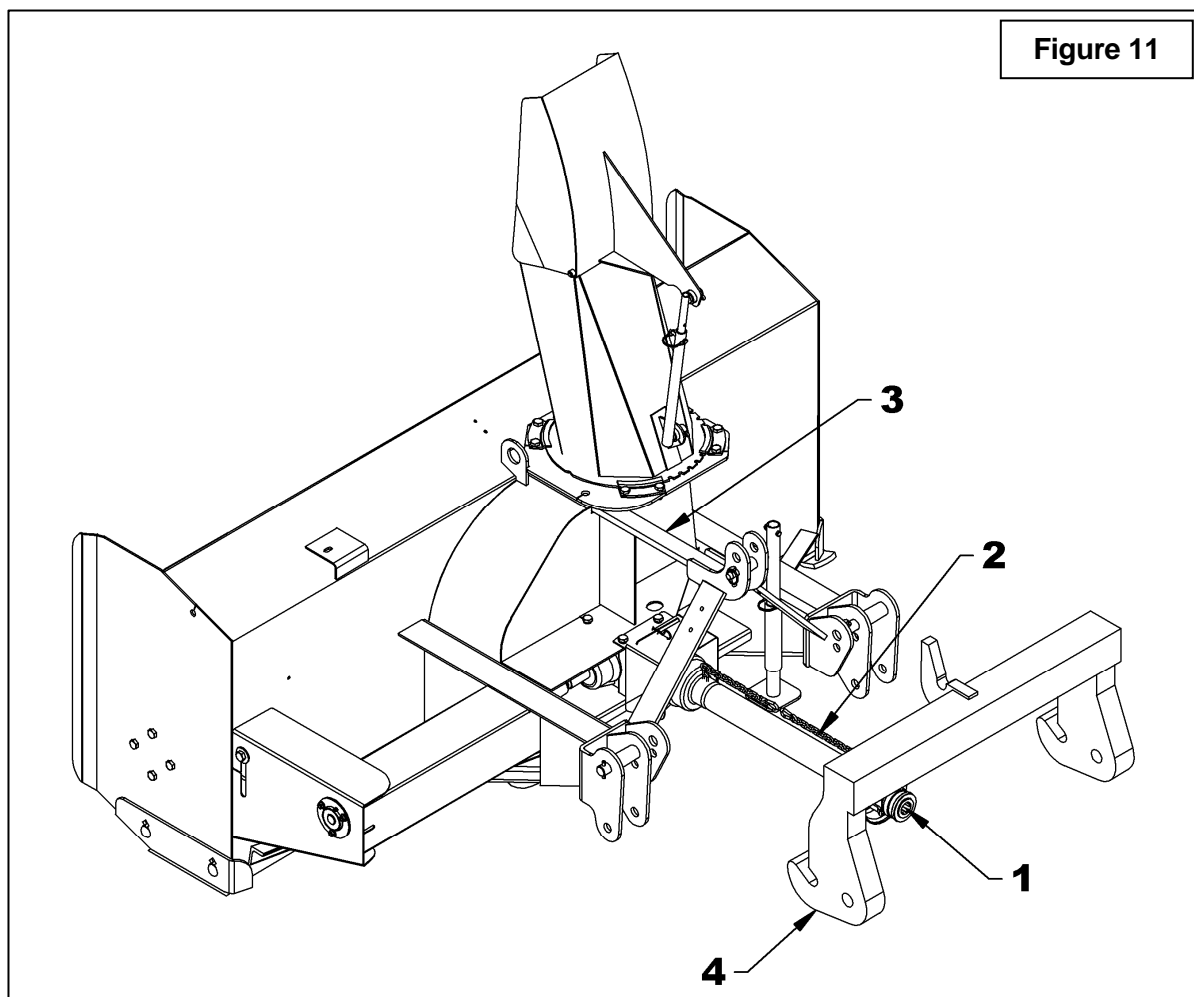
IMPORTANT: To avoid damages to the snowblower, retorque all bolts after the first 10 hours of operation.



ASSEMBLY

Quick Hitch

1. Set parking brake and turn engine off.
2. **Figure 9:** Remove the wire round lock pin (item 2), lower the parking stand (item 1) and reinsert the wire round lock pin in the lower hole (item 3).
3. **Figure 11:** Disconnect driveline (item 1) from tractor and attach the driveline safety chain (item 2) around the upper hitch (item 3).
4. **Figure 11:** Slowly back the tractor away to release quick hitch (item 4) from the snowblower.



OPERATION

GENERAL PREPARATION

1. Read the operator's manual carefully before using the tractor and snowblower. Be thoroughly familiar with the controls and proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
2. Make sure the snowblower is clear of snow before engaging the driveline.
3. Make sure the auger and fan operate freely.
4. Check the oil level in the worm Gearbox and if necessary, add 80W90 SAE gear oil, AGMA 5EP oil or equivalent.
5. Check the two shear bolts, one on the driving shaft, and the one on the PTO, for proper tightness.
6. Adjust so that the snowblower skid shoes run level.
7. Wear adequate winter outer garments while operating equipment.

OPERATING CONTROLS

Work and Travel Speed

Working ground speed will depend on the depth and density of the snow to be cleared. Normally, ground speed will range from 4 to 7 MPH for light, dry snowfalls 3 to 6 inches, and 1 to 3 MPH for heavy, wet or drifted snow. To transport, disengage the drive shaft and raise the snowblower to full transport height.

Raising and Lowering the Snowblower

Move the three point lever on right hand side of seat down or forward to lower, and up or rearward to raise.



WARNING

To avoid personal injury, be sure the tractor engine is off, the drive shaft disengaged, and all movement has stopped before making any adjustments.

ADJUSTMENTS

Reduction Chain Tension Adjustment (Figure 12)

The premature wear of the chain may be caused by tension being too tight. It is therefore important not to tighten chain to its maximum.

- To adjust the tension on the drive chain, loosen the bolt (item 1), securing the idler sprocket to the snowblower housing.
- To tighten the chain, lower the bolt. Leave approximately 1/8" deflection in one span of the chain. Retighten securely the bolt holding the idler sprocket.

Skid Shoe Adjustment (Figure 12)

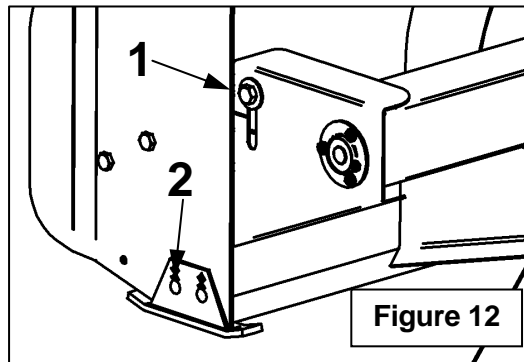
Adjust the skid shoes so that the snowblower runs level and according to the surface conditions so that stones are not thrown with the snow.

Adjust both skid shoes to the same height to keep the cutting edge level and adjust upwards for smooth surfaces.

Loosen skid shoe bolts (item 2) and adjust according to instructions below, and securely tighten bolts:

Clearance between cutting edge and surface:

- *Paved surface:* Insert bolts in lower hole.
- *Uneven or gravel surface:* Insert bolts according to distance needed: 1/2" - middle hole
1" - upper hole



Manual Deflector Adjustment

Set the angle of deflection according to the distance the snow must be thrown. To set the deflector angle, remove the adjusting pipe hairpin and adjust the adjusting rod to the desired deflector angle. Secure with the adjusting pipe hairpin.

OPERATION

SNOW REMOVAL METHODS

When removing snow, do not use the snowblower as a dozer blade to push snow. Let the snowblower work its way through deep drifts. If the speed of your tractor is too fast, the snowblower may become overloaded and clog. For best results, raise the snowblower and remove a top layer of snow. A second pass with the snowblower will remove the remaining snow.

IMPORTANT: Use full RPM power when removing wet, sticky snow. Low RPM power will tend to clog the chute.

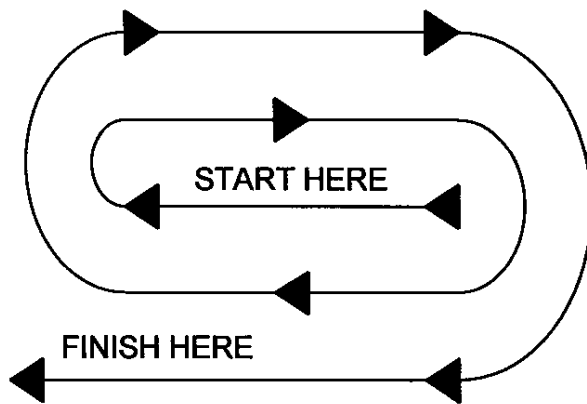


Do not use hands or feet to unclog chute. Do not attempt to clear clogged chute of snow while tractor engine is running. If the chute clogs, disengage the drive shaft, shut off the tractor engine, remove the ignition key, wait for all movement to stop, and then clear the snow from the chute.

A definite pattern of operation is required to thoroughly clean the snow area. These patterns will avoid throwing snow in unwanted places as well as eliminating a second removal of snow

PATTERN 1

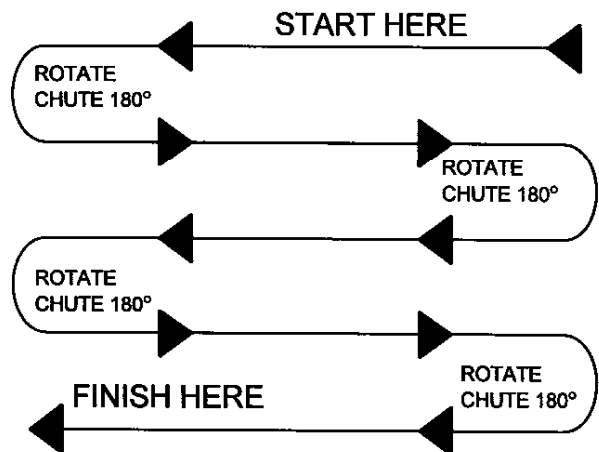
DISCHARGE SNOW BOTH SIDES



DISCHARGE SNOW BOTH SIDES

Where it is possible to throw the snow to the left and right (above), as on a long driveway, it is advantageous to start in the middle. Plow from one end to the other, throwing snow to both sides without changing the direction of the discharge guide.

PATTERN 2



DISCHARGE SNOW THIS SIDE ONLY

If the snow can only be thrown to one side of the driveway or sidewalk (above), start on the opposite side. At the end of the first pass, rotate the discharge guide 180 degrees for the return pass. At the end of each succeeding pass, rotate the discharge guide 180 degrees to maintain direction of throw in the same area.

MAINTENANCE

MAINTENANCE

Shearbolts

Check the shearbolts indicated on the figure below at frequent intervals for proper tightness to be sure the blower is in safe working condition. If the shearbolts need replacement, use the following parts only:

Drive shaft:

Shearbolt hex. 5/16" NC x 1 3/4" gr.5 with nut.
Part # 665547.

Driveline:

B84

Shearbolt M10 x 1.5 x 55mm gr. 8.8 with nut.
Part # 657199

B94

Shearbolt M10 x 1.5 x 55mm gr. 8.8 with nut.
Part # 657199.

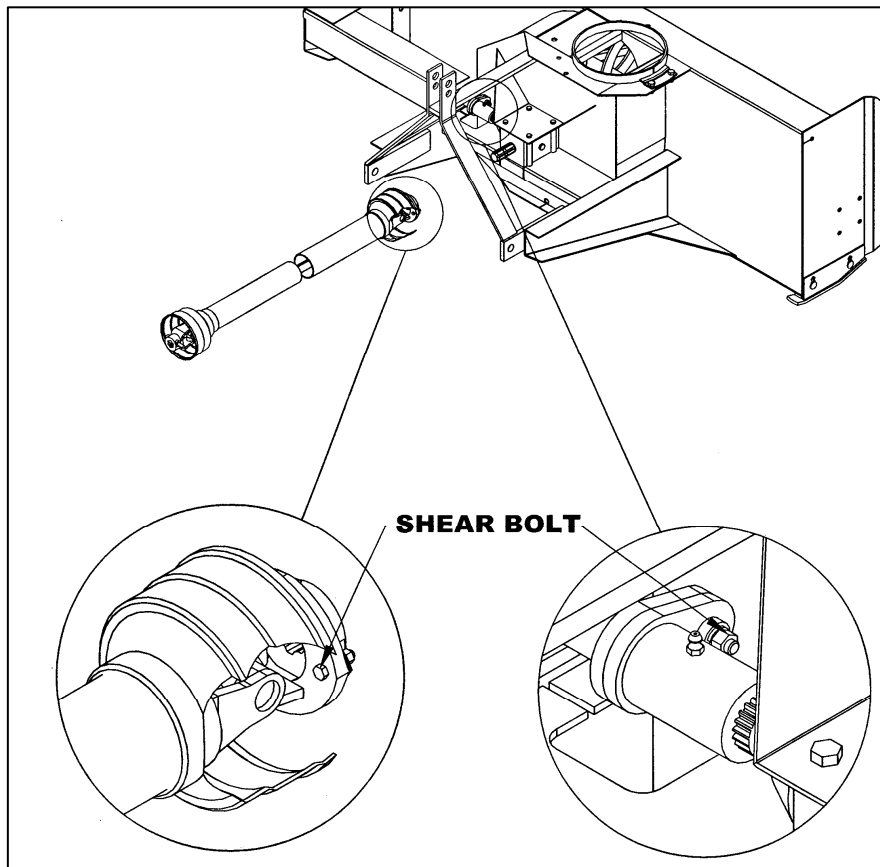


WARNING

Provide adequate blocking before working under the snowblower when in the raised position.

Driveline

IMPORTANT: When the snowblower is not used for more than two weeks, perform driveline maintenance and always store it in a dry place, away from bad weather conditions.

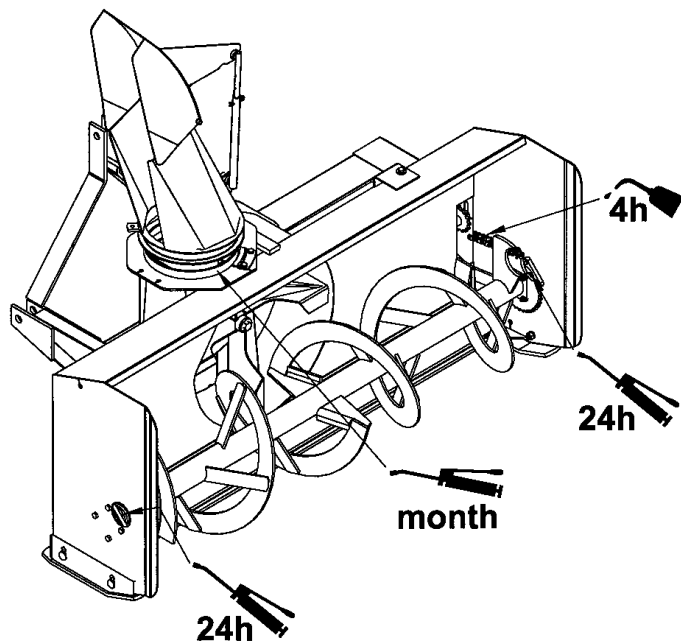
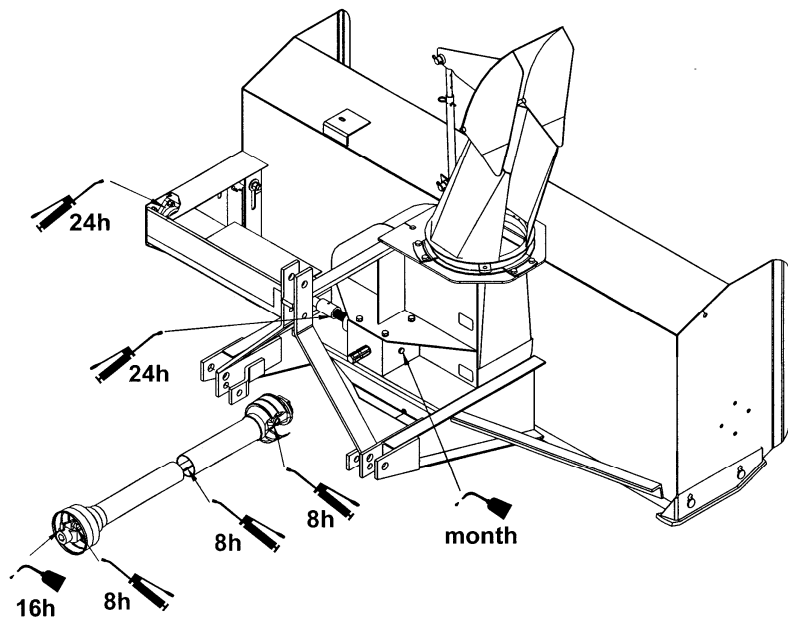


MAINTENANCE

LUBRICATION

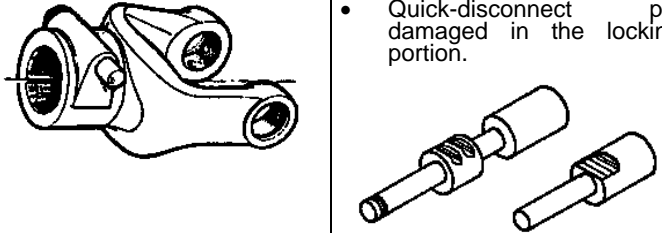
Use oil or a grease gun and lubricate as follows:

DESCRIPTION	INTERVAL	LUBRICATION REQUIRED
Driveline	8 hours	Grease each universal joint. Separate the sliding parts and cover each one of them with grease
	16 hours	Oil the push pins
Chain	4 hours and after each operation	Lubricate with chain lube
Drive Shaft	24 hours of operation	Grease fitting on shear plate
Gearbox	Every month	Check oil level. If needed, add AGMA 5EP extreme pressure oil, SAE 80W90 gear oil or equivalent.
	Once a year	Replace oil
Bearing	24 hours of operation	Grease each auger bearing
Chute base	Every month	Grease the base

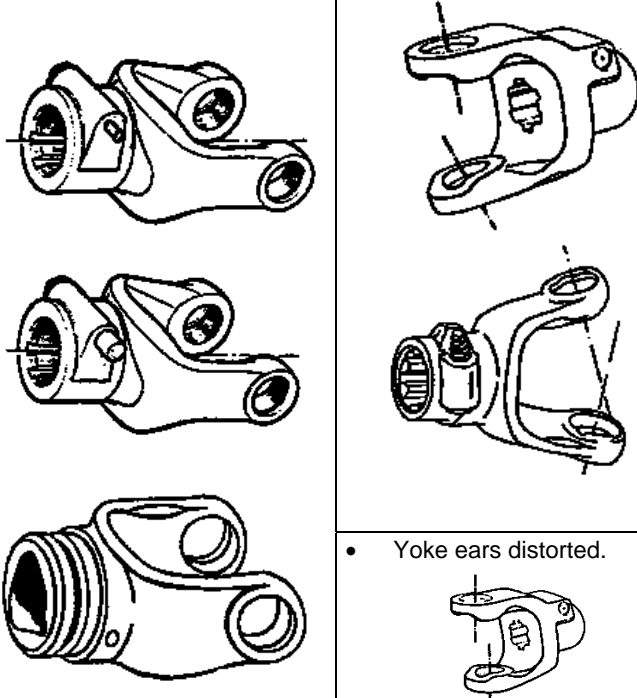


MAINTENANCE

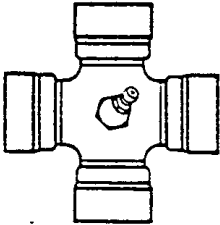
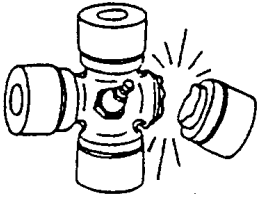
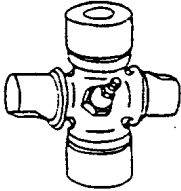
DRIVELINE TROUBLESHOOTING

	AVOIDABLE DAMAGES	POSSIBLE CAUSES	CORRECTIVE ACTIONS
QUICK-DISCONNECT YOKE 	<ul style="list-style-type: none"> Quick-disconnect pin tight or completely seized. Quick-disconnect pin damaged (broken or bent) Quick-disconnect pin damaged in the locking portion. 	<ul style="list-style-type: none"> Quick-disconnect pin dirty (insufficient maintenance). Quick-disconnect pin defective (forced engagement, incorrect handling) Excessive shaft length. Axial loads too high. 	<ul style="list-style-type: none"> Clean, oil and follow service instructions. Replace quick-disconnect pin. Shorten shaft length (cut both telescopic tubes as well as shield and remove burrs). Replace quick-disconnect pin. Clean and grease telescopic tubes, and replace both tubes, if necessary. Replace quick-disconnect pin.

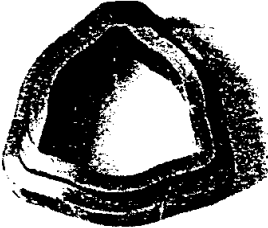

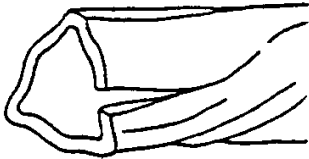

Note: Quick-disconnect pins must be cleaned and greased every 16 hours.

	AVOIDABLE DAMAGES	POSSIBLE CAUSES	CORRECTIVE ACTIONS
YOKE 	<ul style="list-style-type: none"> Yoke ears deformation 	<ul style="list-style-type: none"> Excessive shaft length. Axial loads too high. Excessive working angle and torque. 	<ul style="list-style-type: none"> Shorten shaft length (cut both telescopic tubes as well as shields and remove burrs). Replace defective yokes. Clean and grease telescopic tubes, and replace both tubes, if necessary. Replace defective yokes. Verify compatibility between shaft and working conditions (torque vs. angle). Disengage tractor driveline during cornering or when lifting or lowering the implement. Change to a larger driveline size. Replace defective yokes.
	<ul style="list-style-type: none"> Yoke ears distorted. 	<ul style="list-style-type: none"> Overload caused by high starting and peak torques. 	<ul style="list-style-type: none"> Engage driveline more carefully. Use appropriate safety devices. Replace defective yokes.
	<ul style="list-style-type: none"> Yoke ears worn or pounded. 	<ul style="list-style-type: none"> Excessive working angle. 	<ul style="list-style-type: none"> Avoid excessive working angle. Disengage tractor driveline during cornering. Replace defective yokes.

MAINTENANCE

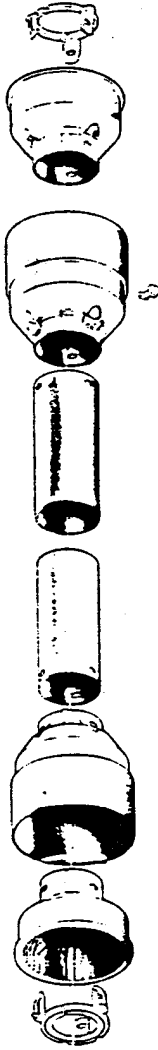
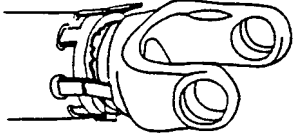
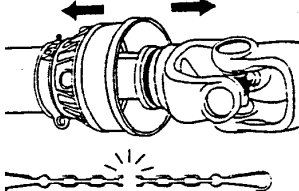
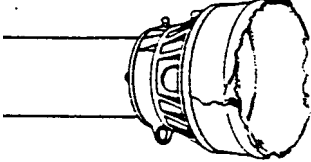
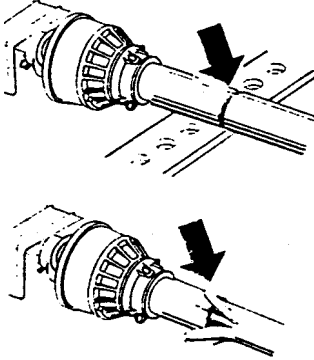
	AVOIDABLE DAMAGES	POSSIBLE CAUSES	CORRECTIVE ACTIONS
CROSS KIT 	<ul style="list-style-type: none"> Cross arms broken. 	<ul style="list-style-type: none"> Extreme torque peak or shock load. Axial loads too high. 	<ul style="list-style-type: none"> Use appropriate safety device. Change to a larger driveline size. Shorten driveline shaft. Replace defective cross bearings.
	<ul style="list-style-type: none"> Bearing caps turning in their cross journal. Overheated bearing caps. 	<ul style="list-style-type: none"> Excessive continuous torque and/or excessive working angle. Inadequate greasing. 	<ul style="list-style-type: none"> Verify compatibility between shaft and working conditions. Carefully follow greasing instructions. Replace defective cross bearings.
	<ul style="list-style-type: none"> Accelerated wear of cross kit. 	<ul style="list-style-type: none"> Excessive continuous torque and/or excessive working angle. Inadequate greasing. 	<ul style="list-style-type: none"> Verify compatibility between shaft and working conditions. Carefully follow greasing instructions. Replace defective cross bearings.

Note: Cross bearings must be greased every 8 working hours.

	AVOIDABLE DAMAGES	POSSIBLE CAUSES	CORRECTIVE ACTIONS
TELESCOPIC TUBES  	<ul style="list-style-type: none"> Telescopic tubes failure or twisting. 	<ul style="list-style-type: none"> Extreme torque peak or shock load. Short tube engagement. 	<ul style="list-style-type: none"> Use appropriate safety device. Change to a larger driveline size. Replace the driveline drive shaft with one having adequate length. Replace defective tubes.
	<ul style="list-style-type: none"> Accelerated wear of telescopic tubes. 	<ul style="list-style-type: none"> Extreme load when sliding. Short tube engagement. Inadequate greasing. Dirt 	<ul style="list-style-type: none"> Change to a driveline with rilsan coated inner tube. Replace the driveline with one having adequate length. Carefully follow greasing instructions. Replace defective tubes.

Note: Telescopic tubes must be cleaned and greased every 8 working hours.

MAINTENANCE

<p>SHIELD</p> 	<p>AVOIDABLE DAMAGES</p>	<p>POSSIBLE CAUSES</p>	<p>CORRECTIVE ACTIONS</p>
	<ul style="list-style-type: none"> Excessive wear of shield bearings. 	<ul style="list-style-type: none"> Insufficient lubrication. Incorrect chain mounting. Shield interfering with implement. 	<ul style="list-style-type: none"> Follow lubrication instructions. Mount chain to allow maximum angularity. Avoid contact of the shields with fixed parts of the machine or tractor. Replace shield bearings.
	<ul style="list-style-type: none"> Chain moving or failure. 	<ul style="list-style-type: none"> Shield interfering with implement. Incorrect chain mounting. 	<ul style="list-style-type: none"> Avoid contact of the shields with fixed parts of the machine or tractor. Mount chain to allow maximum angularity. Replace defective parts.
	<ul style="list-style-type: none"> Shield cone damaged. 	<ul style="list-style-type: none"> Shield cone in contact with components on the tractor and/or implement. Excessive angularity. 	<ul style="list-style-type: none"> Eliminate interference between Shield cones and any part on the tractor and/or implement. Avoid excessive angle during cornering or when lifting or lowering the implement. Replace damaged Shield cones.
	<ul style="list-style-type: none"> Shield tubes damaged (deformed and split on one side). 	<ul style="list-style-type: none"> Shields in contact with components on the tractor and/or implement. Shield tubes overlap too short or no overlap at all with extended driveline. 	<ul style="list-style-type: none"> Eliminate interference between Shield cones and any part on the tractor and/or implement. Replace damaged tubes. Adjust Shield tubes length with longer tubes.

Note: Shield bearings must be greased every 8 working hours.

PARTS

INTRODUCTION

All parts are illustrated in "exploded views" which show the individual parts in their normal relationship to each other. Reference numbers are used in the illustrations. These numbers correspond to those in the "Reference Number" (REF) column, and are followed by the description and quantity required.

O/L - "Obtain Locally" in the part number column indicates common hardware that is available at your local hardware supply.

Right hand and left hand are determined by those seen by the conductor standing behind the equipment.

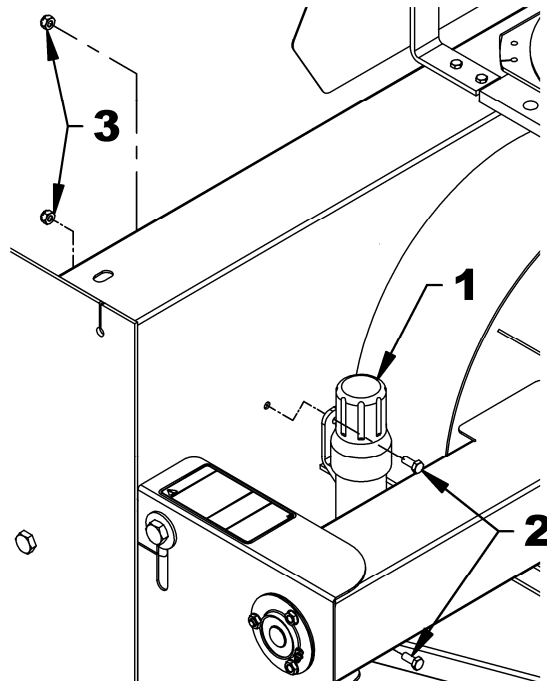
Orders must give the complete description, correct part number, the total amount required, the serial number, the method of shipment and the shipping address.

The manufacturer reserves the rights to change, modify, or eliminate from time to time, for technical or other reasons, certain or all data, specifications, or the product or products themselves, without any liability or obligation.

The parts listed here are available through your local dealer.

MANUAL HOLDER – ALL MODELS

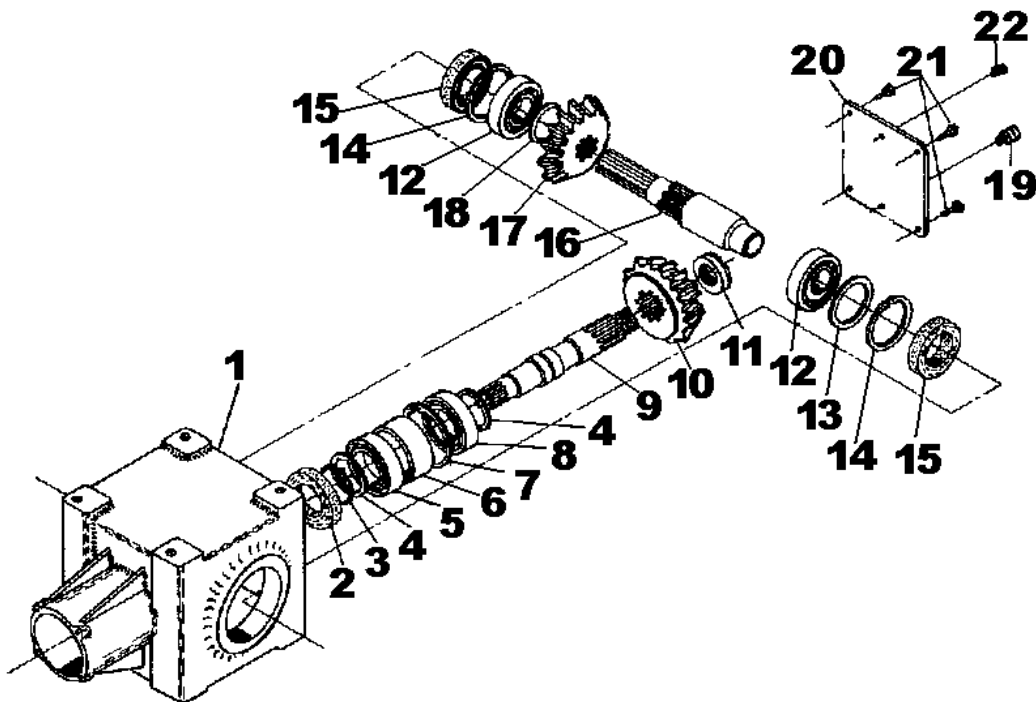
REF.	DESCRIPTION	QTY	PART #
1	Manual holder	1	4200030
2	Bolt hex. 5/16" NC x 3/4" lg gr. 5, PTD	2	O/L
3	Nut nylon insert 5/16" NC, PTD	2	O/L



PARTS

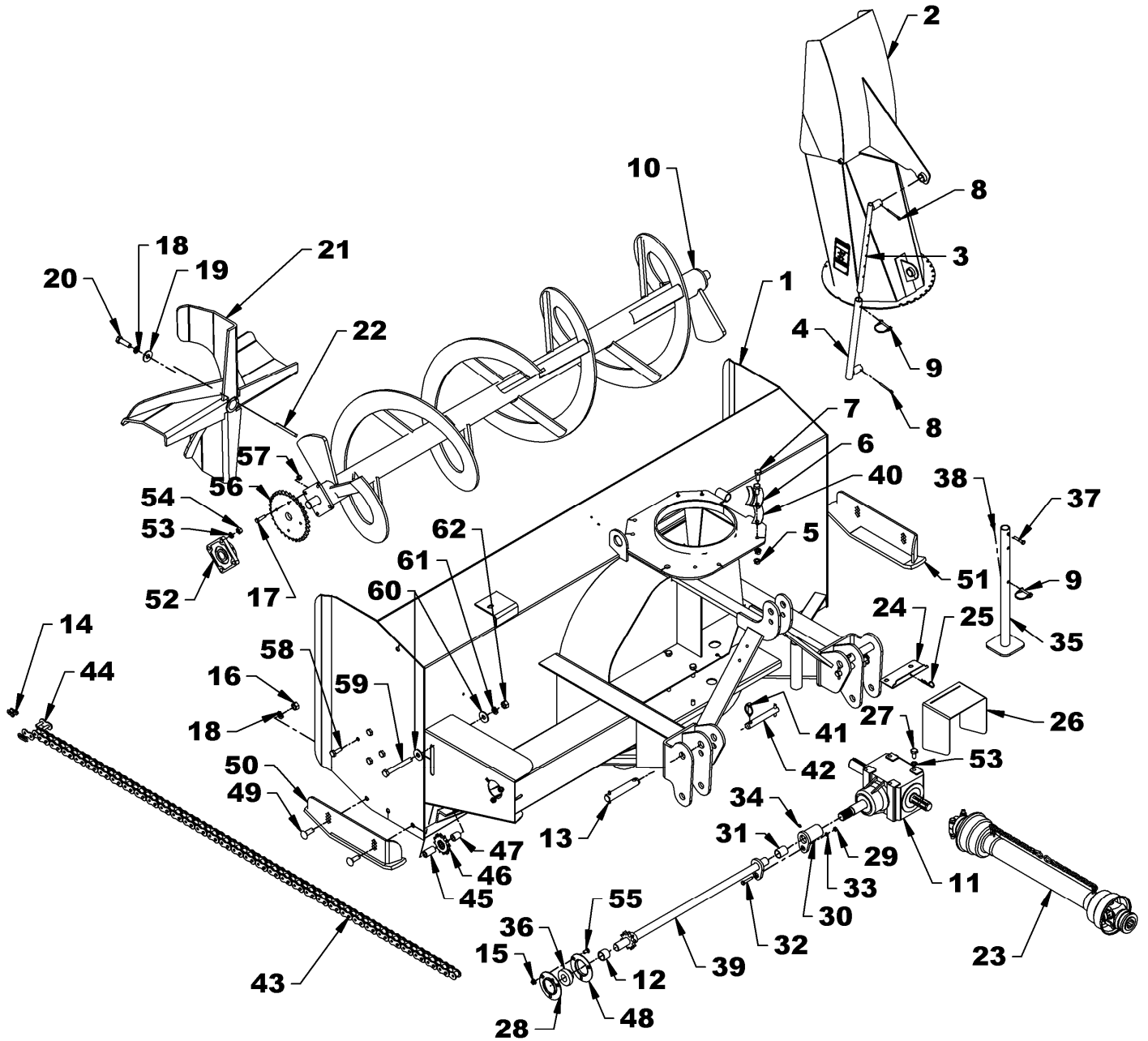
WORM GEAR BOX - 662195

REF.	DESCRIPTION	QTY	PART #
1	Casing	1	656640
2	Seal kit 35 x 72 x 10	1	659845
3	External retaining ring	1	656652
4	Spacer	2	656649
5	Bearing flange	1	659844
6	Spacer	1	656648
7	Internal retaining ring	1	656654
8	Bearing flange	1	656647
9	Shaft	1	656651
10	Gear	1	656645
11	External retaining ring	1	656646
12	Bearing flange	2	656641
13	Spacer	1	656644
14	Internal retaining ring	2	656642
15	Seal kit 40 x 80 x 12	2	656643
16	Shaft	1	662212
17	Gear	1	656657
18	Spacer	1	661146
19	Plug	1	656662
20	Cover	1	656660
21	Bolt hex. M10 x 14 gr.8.8	4	656659
22	Plug 3/8" NPT	2	655259



PARTS

SNOWBLOWERS –B84 & B94



PARTS

SNOWBLOWERS –B84 & B94

REF.	DESCRIPTION	QTY	PART #
1	Housing	1	---
2	Chute assembly (including adjustment tube and rod)	1	668101
3	Adjustment rod	1	654074
4	Adjustment tube	1	654076
5	Serrated flange nut 1/2" NC PTD	8	O/L
6	Retaining plate	4	654197
7	Bolt hex. 1/2" NC x 1 1/4" gr.5 PTD	8	O/L
8	Cotter pin Ø1/4" x 2" PTD	4	O/L
9	Round wire lock pin 1/4" x 2" PTD	2	1900006
10	Auger – B84	1	666278
	Auger – B94	1	666290
11	Gearbox	1	662195
12	Spacer ring 0 3/32"	1	667015
13	Hitch pin 1 1/8" x 6 1/4" lg Cat. 2	2	4600042
14	Half link #60	1	654025
15	Serrated flange nut 3/8" NC PTD	3	O/L
16	Nut hex. 5/8" NC PTD	4	O/L
17	Bolt hex. 3/8" NC x 1 1/2" gr.5 PTD	4	O/L
18	Lockwasher 5/8" PTD	5	O/L
19	Flat washer 5/8" PTD	1	O/L
20	Bolt hex. 5/8" NC x 2" gr.5 PTD	1	O/L
21	Fan	1	668967
22	Key 3/8" x 3/8" x 4" lg	1	4500075
23	Driveline Series 50	1	662194
	Driveline Series 60	1	662538
24	Driveline shield bracket	1	668449
25	Hairpin 3mm x 65mm lg PTD	1	1800004
26	Driveline shield	1	668057
27	Bolt hex. 1/2" NC x 1" gr.5 PTD	8	O/L
28	Flange, 3 holes with grease fitting and groove	1	4300015
29	Nut hex. 5/16" NC PTD	1	O/L
30	Shear plate	1	666257
31	Oilite bushing	1	4300056
32	Shearbolt 5/16"NC x 1 3/4" gr.5, incl. nut	1	665547
33	Lockwasher 5/16" PTD	1	O/L
34	Grease fitting 1/4" NF	1	654106
35	Parking stand	1	668091
36	Bearing 1 1/8" with setscrew and grease system	1	4300040
37	Bolt hex. 1/4" NC x 1 1/4" gr. 5 PTD	1	O/L
38	Nylon insert hex. nut 1/4" NC PTD	1	O/L
39	Driving shaft – B84	1	668046
	Driving shaft – B94	1	668476
40	Spacer	4	668549

PARTS

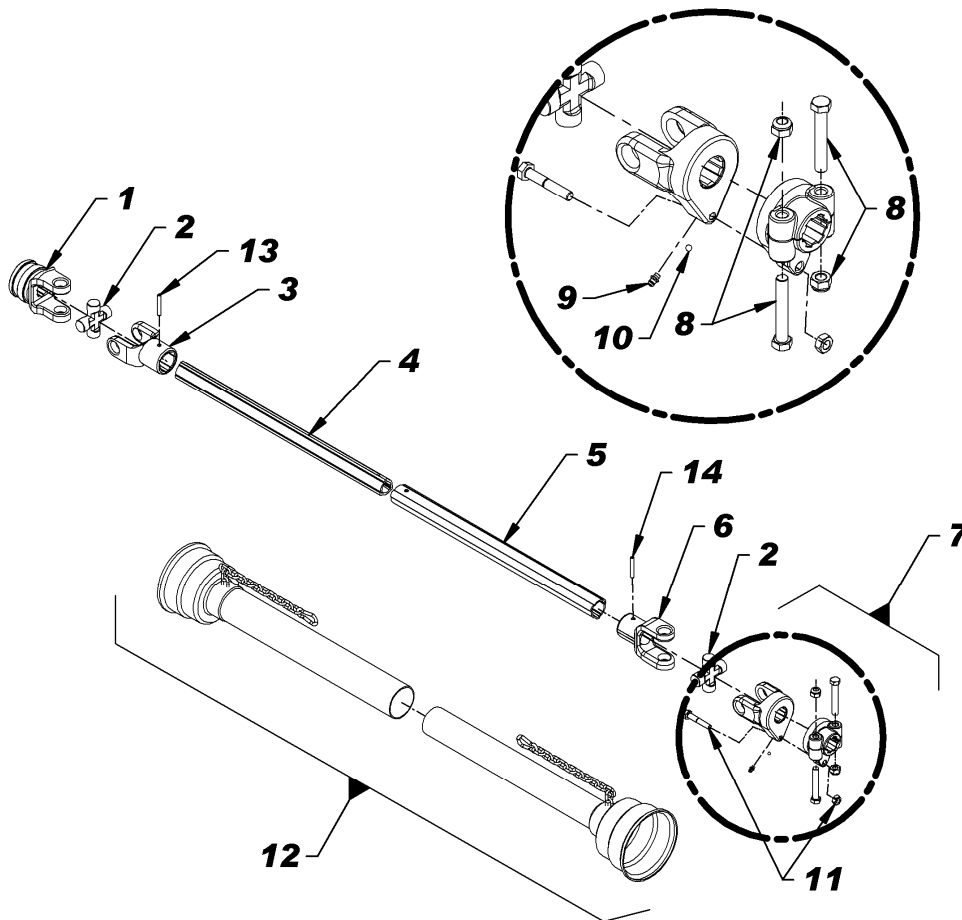
SNOWBLOWERS –B84 & B94

REF.	DESCRIPTION	QTY	PART #
41	Linchpin 7/16" PTD	2	1900003
42	Hitch pin Cat. 1	2	4600043
43	Chain #60 x 90 links	1	662447
44	Connecting link #60	1	654839
45	Spacer ring 1 3/4" lg	1	668093
46	Idler sprocket 60A12	1	3300022
47	Spacer ring .656"ID x 1.51 lg x 1" ext.	1	667777
48	Flange, 3 holes with grease groove	1	4300014
49	Bolt carriage 1/2" NC x 1" lg gr.5 PTD	4	0300022
50	Left adjustable skid shoe	1	666287
51	Right adjustable skid shoe	1	666288
52	Flange bearing 1 1/4" hole, 4 holes	2	4300001
53	Lockwasher 1/2" PTD	16	1200006
54	Nut hex. 1/2" NC PTD	8	0900006
55	Bolt carriage 3/8" NC x 3/4" lg PTD	3	0300007
56	Sprocket 60A32	1	654167
57	Nylon insert nut 3/8" NC gr.5 PTD	4	O/L
58	Bolt hex. 1/2" NC x 1 1/2" lg gr.5 PTD	8	O/L
59	Bolt hex. 5/8" NC x 5" lg gr.5 PTD	1	O/L
60	Flat washer 5/8" (11/16" dia. hole)	2	O/L
61	Lockwasher 5/8" PTD	1	O/L
62	Nut hex. 5/8" NC gr.5 PTD	1	O/L

PARTS

DRIVELINE 662194 FOR B84

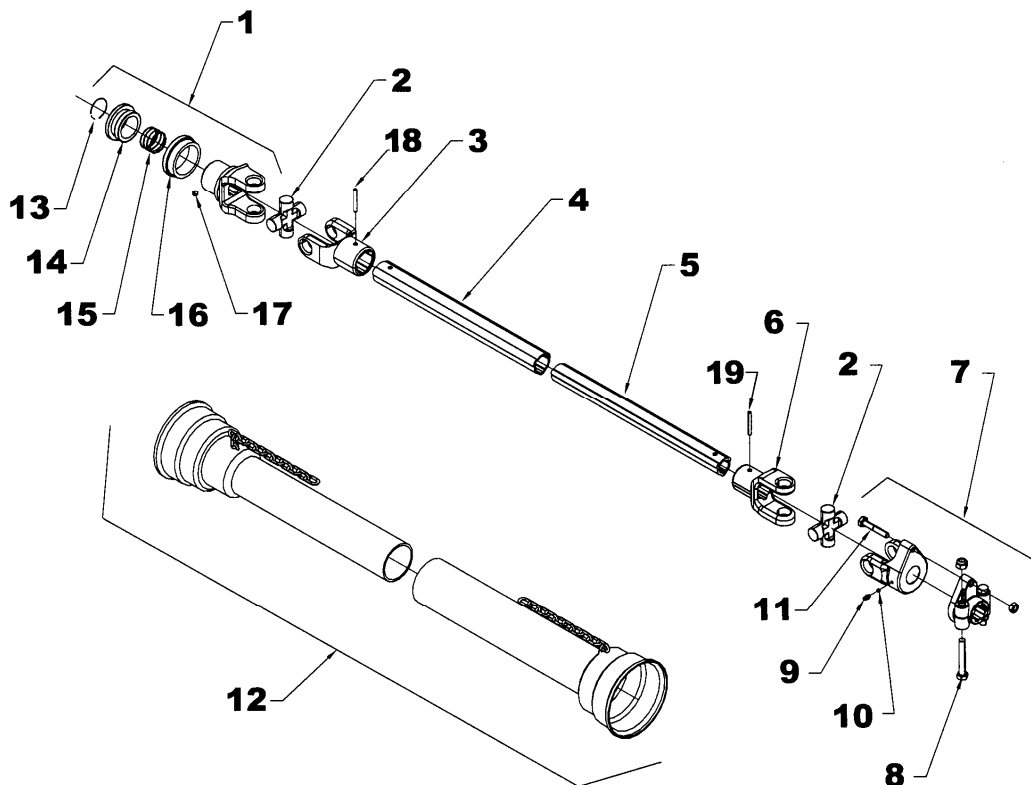
REF.	DESCRIPTION	QTY.	PART #
1	Push pin yoke assembly	1	657209
2	Journal cross	2	657200
3	Outer yoke	1	663119
4	Outer tube	1	663123
5	Inner tube	1	663124
6	Inner yoke	1	663126
7	Yoke and hub assembly	1	662198
8	Bolt and nut	2	662199
9	Grease fitting	1	663129
10	Ball Ø14"	23	663163
11	Shear bolt M10 x 1.5 x 55mm gr. 8.8 PTD and nut	1	657199
12	Shields with safety chain	1	657221
13	Pin for male tube	1	663125
14	Pin for female tube	1	663120



PARTS

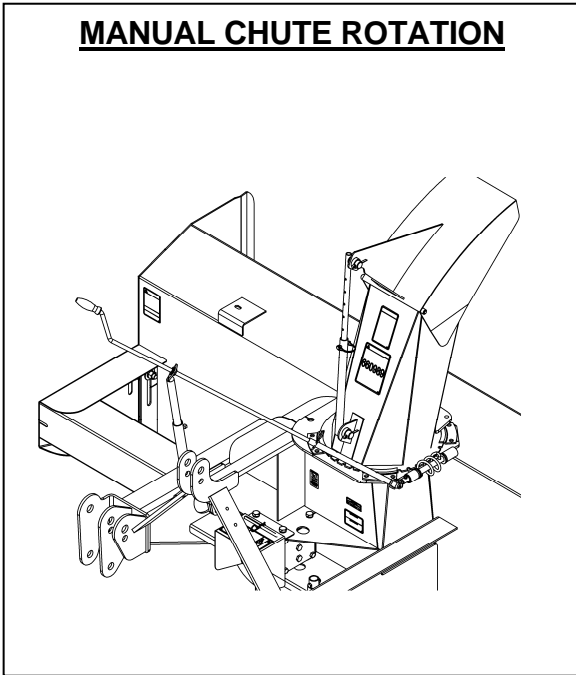
DRIVELINE – 662538 FOR B94

Ref.	Description	Qty	Part #
1	Slide collar yoke assembly	1	4700083
2	Universal joint kit	2	663134
3	Outer yoke	1	663136
4	Outer tube	1	663140
5	Inner tube	1	663142
6	Inner yoke	1	663144
7	Yoke and hub assembly	1	663145
8	Bolt and nut	2	662199
9	Grease fitting	1	663148
10	Ball	24	663162
11	Shear bolt and nut, M10 x 1.5 x 55 mm gr. 8.8 PTD	1	657199
12	Shields with safety chain	1	663150
13	Outer circlip	1	4700084
14	Sliding sleeve collar	1	4700085
15	Spring	1	4700086
16	Fixed sleeve	1	4700087
17	Ball 1/2"	3	4700088
18	Roll pin for outer tube	1	663153
19	Roll pin for inner tube	1	663157

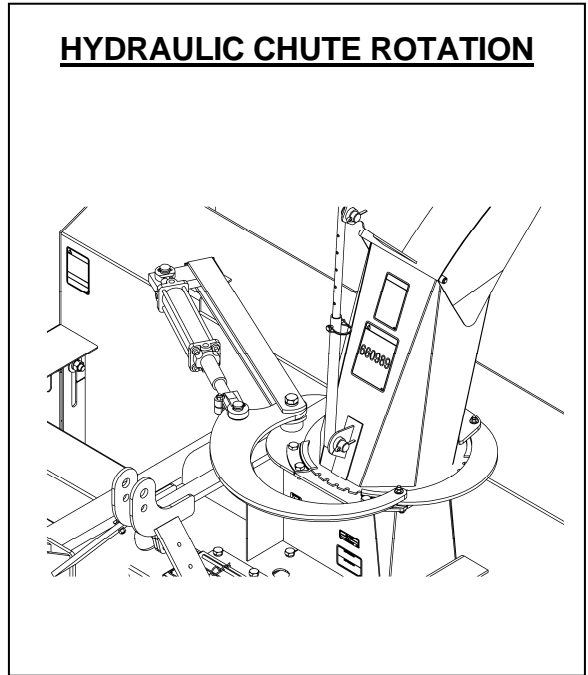


AVAILABLE OPTIONS

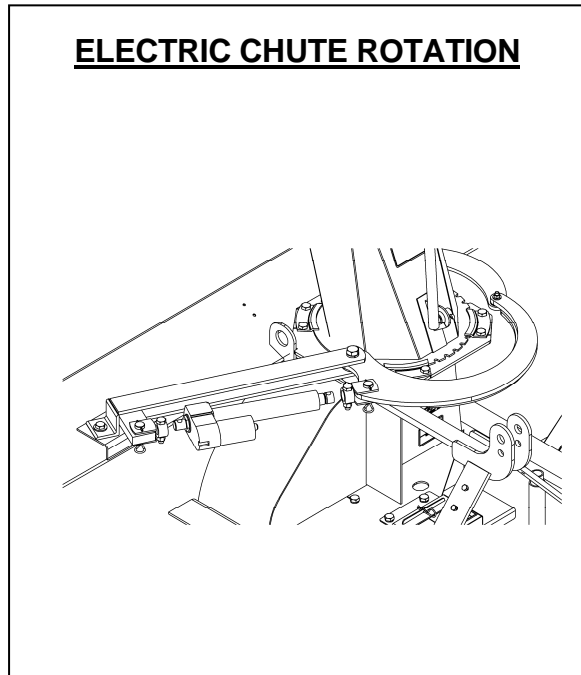
MANUAL CHUTE ROTATION



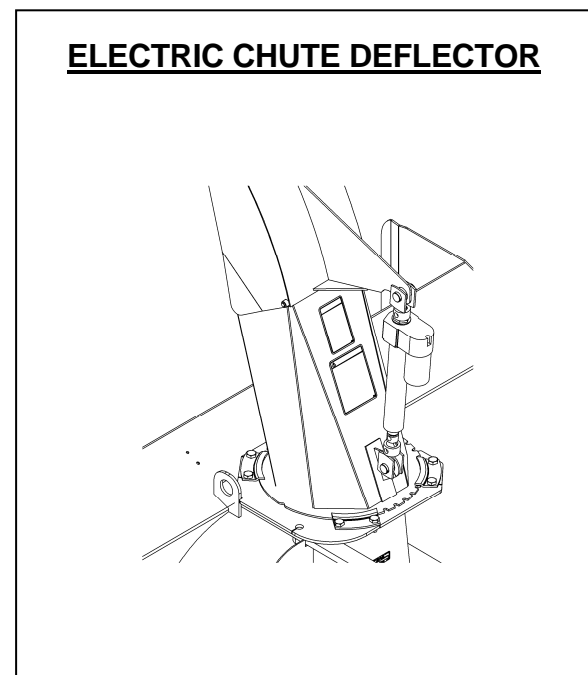
HYDRAULIC CHUTE ROTATION



ELECTRIC CHUTE ROTATION



ELECTRIC CHUTE DEFLECTOR



WARRANTY



RADTECH warrants to the original buyer that the equipment is free from defects in material and workmanship. RADTECH's obligation, under this warranty, will be limited to the repair or replacement of any non-wear part or component, which RADTECH finds to be defective within **one year** from the date of original purchase (unless otherwise-specified). The applicable warranty period for commercial or rental use shall be ninety (90) days from the date of purchase

In no event shall RADTECH be liable for consequential, special, direct or indirect damages incurred by the buyer/user.

All components not manufactured by RADTECH (such as motors, actuators, hydraulic components, tires, ...etc.) are covered by the original manufacturer's warranty in conjunction with RADTECH

RADTECH's obligation under this warranty shall be limited to repairing or replacing, free of charge to the original purchaser, any part that, in RADTECH's judgment, shall show evidence of such defect, provided the **distributor** returns the part prepaid within thirty (30) days from date of failure.

This warranty shall not be interpreted to render RADTECH liable for injuries or damages of any kind or nature to person or property. This warranty does not extend to losses because of delays, or to any expenses or losses incurred for labor, substitute machinery, rental or for any other reason.

Except as set forth above, RADTECH shall have no obligation or liability of any kind on account of any of its equipment and shall not be liable for special or consequential damages. RADTECH makes no other warranty, expressed or implied, and specifically, RADTECH disclaims any implied warranty or merchantability or fitness for a particular purpose. **Some states or provinces do not permit limitations or exclusions of implied warranties or incidental or consequential damages, so the limitations or exclusions in this warranty may not apply.**

This warranty is subject to any existing conditions of supply, which may directly affect our ability to obtain materials or manufacture replacement parts. RADTECH reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligation to owners of units previously sold.

No one is authorized to alter, modify or enlarge this warranty nor the exclusions, limitations and reservations.

2835 Chemin de l'Aéroport, Thetford Mines (Québec) G6G 5R7

Tel.: (418) 338-4499 Fax: (418) 388-6090

Internet : www.radinter.com e-mail : radtech@radinter.com

TORQUE SPECIFICATION TABLE

GENERAL SPECIFICATION TABLE

Use the following torques when special torques are not given Note: These values apply to fasteners as received from supplier, when dry. These values do not apply if lubricants are used.

BOLT SIZES (SAE)	TORQUE	
INCHES	Pounds-Foot	Newtons-Meter
1/4	5	7
5/16	10	14
3/8	20	27
7/16	25	41
1/2	88	119
9/16	121	144
5/8	145	224
3/4	297	403
7/8	440	597
1	638	865
1 1/8	840	1139
1 1/4	1180	1400
1 3/8	1570	2129
1 1/2	2070	2807

BOLT SIZES (METRIC)	TORQUE	
MILLIMETERS	Pounds-Foot	Newtons-Meter
M6	10	13
M8	22	30
M10	40	54
M12	59	80
M14	93	126
M14	130	176
M18	148	228
M20	205	278

Manufactured by:



2835, Chemin de l'Aéroport
Thetford Mines, Québec, Canada, G6G 5R7
Tel.: (418) 338-4499 - Fax: (418) 338-6090
e-mail : radtech@radinter.com
Internet : www.radinter.com

Printed in Canada