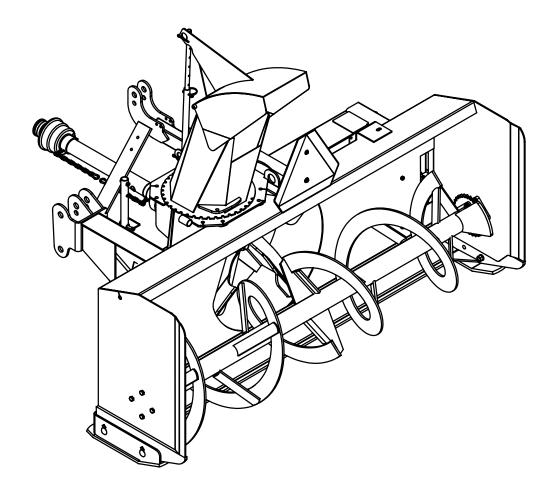
SNOW BLOWER

SB84.40 SB94.40



MAN 1369 (Rev 10/31/2023)

WCCDS.

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TO THE DEALER:

Assembly and proper installation of this product is the responsibility of the Woods® dealer. Read manual instructions and safety rules. Make sure all items on the Dealer's Pre-Delivery and Delivery Checklists in the Operator's Manual are completed before releasing equipment to the owner.

The dealer must complete the online Product Registration form at the Woods Dealer Website which certifies that all Dealer Checklist items have been completed. Dealers can register all Woods product at dealer. Woods Equipment.com under Product Registration.

Failure to register the product does not diminish customer's warranty rights.

TO THE OWNER:

Read this manual before operating your Woods equipment. The information presented will prepare you to do a better and safer job. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all adjustment and operating procedures before attempting to operate. Replacement manuals can be obtained from your dealer. To obtain complete warranty details, visit WoodsEquipment.com/warranty. You may also request a hard copy by calling 1-800-319-6637 or mail your request to: Woods Equipment Company, Attn: Warranty Dept. 2606 South Illinois Route 2, Oregon, IL 61061. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.

The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Observe all safety information in this manual and safety decals on the equipment.

For service, your authorized Woods dealer has trained mechanics, genuine Woods service parts, and the necessary tools and equipment to handle all your needs.

Use only genuine Woods service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model number and serial number of your equipment in the spaces provided:

Model:	Date of Purchase:	
Serial Number: (see Safety Decal section for	or location)	
Gerial Number: (see Salety Decar section is		

Provide this information to your dealer to obtain correct repair parts.

Throughout this manual, the term **NOTICE** is used to indicate that failure to observe can cause damage to equipment. The terms **CAUTION**, **WARNING**, and **DANGER** are used in conjunction with the Safety-Alert Symbol (a triangle with an exclamation mark) to indicate the degree of hazard for items of personal safety.



This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



Indicates a hazardous situation that, if not avoided, will result in death or serious injury.



Indicates a hazardous situation that, if not avoided, could result in death or serious injury.



Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

IMPORTANT or NOTICE

Is used to address practices not related to physical injury.

NOTE

Indicates helpful information.

2 Introduction

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This Operator's Manual should be regarded as part of the machine. Suppliers of both new and second-hand machines must make sure that this manual is provided with the machine.

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SPECIFICATIONS

Model Number	SB84.40	SB94.40
Туре	2 Stage	2 Stage
Working Width	84"	94"
Working Height	34"	34"
Maximum Operating Weight	1130 Lbs	1180 Lbs
Input Driveline Spec	Series 50	Series 60
Driveline Torque Protection	Shear Bolt	Shear Bolt
Fan Diameter	27-1/2"	27-1/2"
Fan Depth	10-1/2"	10-1/2"
Number of Fan Blades	4	4
Fan Shaft Diameter	40 mm (1.57")	40 mm (1.57")
Fan Speed	540 RPM	540 RPM
Gearbox Ratio	1:1	1:1
Side Drive Shaft	32mm (1.26")	32mm (1.26")
Side Drive Sprocket	10	10
Number of Augers	1	1
Auger Diameter	20"	20"
Auger Speed	170 RPM	170 RPM
Auger Flighting Size	3/8" x 3"	3/8" x 3"
Auger Tube	3-1/2"	3-1/2"
Auger Drive Chain Size	#60H	#60H
Auger Torque Protection	Shear Bolt	Shear Bolt
Auger Sprocket	32	32
Bearing Type	4-Bolt Flange	4-Bolt Flange
Bearing Diameter	1-1/4"	1-1/4"
Chute Shape	Octagonal	Octagonal
Chute Diameter	11"	11"
Chute Rotation Angle	210°	210°
Standard Chute Rotation	Manual	Manual
Optional Chute Rotation	Hydraulic Cylinder	Hydraulic Cylinder
Standard Chute Deflector	Manual	Manual
Optional Chute Deflectors	Hydraulic, or Electric	Hydraulic, or Electric
Cutting Edge Type	Welded	Welded
Cutting Edge Size	1/2" x 3"	1/2" x 3"
Skid Shoe Type	Adjustable	Adjustable
Shipping Weight - Crated	970 Lbs	1020 Lbs
Overall Width	84"	94"
Overall Height	74"	74"
Overall Length	55-3/8"	55-3/8"
Tractor PTO Speed	540 RPM	540 RPM
Tractor PTO Horsepower	35 - 90	35 - 90
Tractor 3-Point Hitch	Category 1 or 2	Category 2
Quick Hitch Compatible	Standard	Standard

GENERAL INFORMATION

A WARNING

Some illustrations in this manual show the snow blower with safety shields removed to provide a better view. The snow blower should never be operated with any safety shielding removed.

The purpose of this manual is to assist you in operating and maintaining your snow blower. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance. These instructions have been compiled from extensive field experience and engineering data. Some information may be general in nature due to unknown and varying

operating conditions. However, through experience and these instructions, you should be able to develop procedures suitable to your particular situation.

The illustrations and data used in this manual were current at the time of printing, but due to possible inline production changes, your machine may vary slightly in detail. We reserve the right to redesign and change the machines as may be necessary without notification.

Throughout this manual, references are made to right, left, forward and rearward directions. These are determined by sitting in the tractor operator's seat facing the direction of forward travel.

4 Introduction

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SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgement, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.

It has been said, "The best safety device is an informed, careful operator." We ask you to be that kind of operator.

TRAINING

- This machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.
- Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from your dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.) Failure to follow instructions or safety rules can result in serious injury or death.
- If you do not understand any part of this manual and need assistance, see your dealer.
- Know your controls and how to stop engine and attachment quickly in an emergency.
- Operators must be responsible, trained, familiar with the instructions and be physically capable of the safe operation of the equipment, its attachments, and all controls. Do not allow anyone to operate this equipment without proper instructions.
- Keep hands and body away from pressurized lines. Use paper or cardboard, not hands or other body parts to check for leaks. Wear safety goggles. Hydraulic fluid under pressure can easily penetrate skin and will cause serious injury or death.
- Make sure that all operating and service personnel know that if hydraulic fluid penetrates skin, it must be surgically removed as soon as possible by a doctor familiar with this form of injury or gangrene, serious injury, or death will result.

CONTACT A PHYSICIAN IMMEDIATELY IF FLUID ENTERS SKIN OR EYES. DO NOT DELAY.

Never allow children or untrained persons to operate equipment.

PREPARATION

- Check that all hardware is properly installed. Always tighten to Bolt Torque Chart specifications unless instructed otherwise in this manual.
- Air in hydraulic systems can cause erratic operation and allows loads or equipment components to drop unexpectedly. When connecting equipment or hoses or performing any hydraulic maintenance, purge any air in hydraulic system by operating all hydraulic functions several times. Do this before putting into service or allowing anyone to approach the equipment.
- Route hydraulic hoses carefully to prevent damage. Hoses must not be twisted, bent sharply, kinked, frayed, pinched, or come into contact with any moving parts. Operate moveable components through full operational range to check clearances. Replace any damaged hose immediately.
- Make sure all hydraulic hoses, fittings, and valves are in good condition and not leaking before starting power unit or using equipment. Check and route hoses carefully to prevent damage. Hoses must not be twisted, bent sharply, kinked, frayed, pinched, or come into contact with any moving parts. Operate moveable components through full operational range to check clearances. Replace any damaged hoses immediately.
- Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.
- Power unit must be equipped with Roll Over Protection System (ROPS) or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in "locked up" position at all times.
- Make sure attachment is properly secured, adjusted, and in good operating condition.
- Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)
- Make sure shields and guards are properly installed and in good condition. Replace if damaged.

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SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



- Do not leave a running machine unattended. Always park on level ground, disengage tractor PTO, set parking brake, and stop engine.
- Make sure spring-activated locking pin or collar slides freely and is seated firmly in tractor PTO spline groove.
- A minimum 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, front tractor wheels could raise up resulting in loss of steering. The weight may be attained with front wheel weights, ballast in tires, front tractor weights or front loader. Weigh the tractor and equipment. Do not estimate.
- Inspect and clear area of stones, branches, or other hard objects that might be thrown, causing injury or damage.

TRANSPORTATION

- Always comply with all state and local lighting and marking requirements.
- Do not operate PTO during transport.
- Do not operate or transport on steep slopes.
- Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower the 3-point hitch and all raised components to the ground, operate valve levers to release any hydraulic pressure, set parking brake, stop engine, remove key, and unfasten seat belt.

OPERATION

- Never place hands or body into discharge chute or auger to unclog. Stored energy can cause auger to quickly rotate when unclogging occurs and cause severe injury or amputation. Stop engine, remove key, disconnect driveline, and carefully unclog, using a sturdy piece of wood.
- Keep the area of operation clear of all bystanders, particularly small children [within 300 ft (92 m)]. Stop the machine and attachments(s) if anyone enters the area.
- Be alert and turn the machine off if children enter the work area.
- Before and when backing, look behind for small children.

- Never carry children while operating the machine. They may fall off and be seriously injured or interfere with the safe operation of the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other obstructions that might hide children from sight.
- Never direct discharge toward people, animals, or property. Rocks, snow, ice and other materials can be thrown up to 300 feet during operation.
- Do not operate or transport equipment while under the influence of alcohol or drugs.
- Operate only in daylight or good artificial light.
- Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.
- Never allow riders on power unit or attachment.
- Power unit must be equipped with Roll Over Protection System (ROPS) or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in "locked up" position at all times.
- Always sit in power unit seat when operating controls or starting engine. Securely fasten seat belt, place transmission in neutral, engage brake, and ensure all other controls are disengaged before starting power unit engine.
- Operate tractor PTO at 540 RPM. Do not exceed.
- Connect PTO driveline directly to power unit PTO shaft. Never use adapter sleeves or adapter shafts. Adapters can cause driveline failures due to incorrect spline or incorrect operating length and can result in personal injury or death.
- Only engage power when equipment is at ground operating level. Always disengage power when equipment is raised off the ground.
- Look down and to the rear and make sure area is clear before operating in reverse.
- Do not stop, start, or change directions suddenly on slopes.
- Use extreme care and reduce ground speed on slopes and rough terrain.

6 Safety

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- Use extreme care when working close to fences, ditches, other obstructions, or on hillsides.
- Watch for hidden hazards on the terrain during operation.
- Watch for traffic when operating near or crossing roadways.
- Use extreme caution when operating on, or crossing a gravel driveway and direct discharge in a safe direction.
- Stop power unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.
- If the implement starts to vibrate abnormally, disengage the PTO, stop the engine immediately and check for cause.
- Before performing any service or maintenance, disconnect driveline from tractor PTO.

MAINTENANCE

- Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower the 3-point hitch and all raised components to the ground, operate valve levers to release any hydraulic pressure, set parking brake, stop engine, remove key, and unfasten seat belt.
- Before performing any service or maintenance, disconnect driveline from tractor PTO.
- NEVER GO UNDERNEATH EQUIPMENT. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak-down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.
 - Service work does not require going underneath implement.
 - Read Operator's Manual for service instructions or have service performed by a qualified dealer.
- Service and maintenance work not covered in OWNER SERVICE must be done by a qualified dealership. Special skills, tools, and safety procedures may be required. Failure to follow these instructions can result in serious injury or death.

- Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.
- Your dealer can supply original equipment hydraulic accessories and repair parts. Substitute parts may not meet original equipment specifications and may be dangerous.
- Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.
- Make sure attachment is properly secured, adjusted, and in good operating condition.
- Always make sure any material and waste products from the repair and maintenance of the implement are properly collected and disposed.
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.
- Tighten all bolts, nuts, and screws to Bolt Torque Chart specifications. Check that all cotter pins are installed securely to ensure equipment is in a safe condition before putting unit into service.
- Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)
- Make sure shields and guards are properly installed and in good condition. Replace if damaged.
- Do not disconnect hydraulic lines until engine is stopped, power unit is properly secured, equipment and all components are lowered to the ground, and system pressure is released by operating all valve control levers.
- Use a suitable lifting device of sufficient capacity. Use adequate personnel to handle heavy components.
- For continued protection against risk of fire, replace ONLY with a fuse of the same type and having the same electrical rating.

STORAGE

- Block equipment securely for storage.
- Keep children, bystanders and animals away from the equipment and the storage area.

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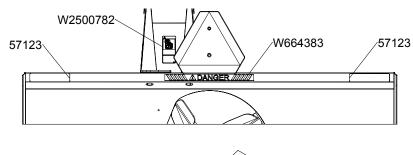
SAFETY & INSTRUCTIONAL DECALS

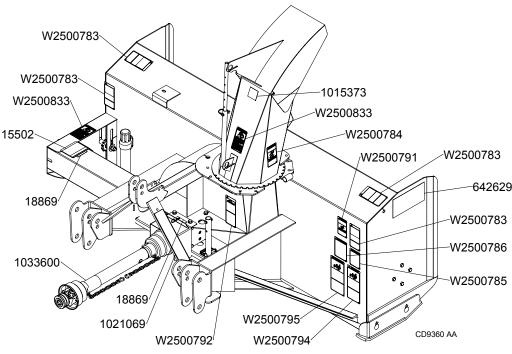


ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Replace Immediately If Damaged!





1033600



W656808



SERIAL NUMBER PLATE

(Dat. com) WCCDS Mary miles of

Model #



W664383





W2500782



BE CAREFUL!

Keep safety decals clean and visible.

Use a clean, damp cloth to clean safety decals.

Avoid spraying too close to decals when using a pressure washer; high-pressure water can enter through very small scratches or under edges of decals causing them to peel or come off.

Replace safety decals if they are missing or illegible.

Replacement safety decals can be ordered free from your Woods dealer, or in the United States and Canada call 1-800-319-6637.

8 Safety

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SAFETY & INSTRUCTIONAL DECALS



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Replace Immediately If Damaged!

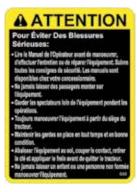
W2500783



W2500784



W2500786



W2500791



W2500792



15502

A WARNING ROTATING COMPONENTS Do not operate without cover in place. Look and listen for rotation. Do not open cover until all components have stopped.

CONTACT WITH ROTATING PARTS CAN CAUSE SERIOUS INJURY.

18869



642629



1015373



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- CAN DROP AND CRUSH

 **Never go underneath

 raised implement which
 can drop from equipmen
 or tractor 3-point hitch
 hydraulic leak down,
 hydraulic leak down,
 hydraulic system
 failures, movement of
 control levers, or
 mechanical linkage
 failures.
- failures.

 Service work does not require going underneath implement. Read manual instructions.

 GOING UNDERNEATH IMPLEMENT WILL RESULT IN SERIOUS INJURY OR DEATH.



CRUSHING AND PINCHING HAZARD

- Handle machine parts carefully. Body parts could be crushed or pinched between tractor
- and implement.

 Operate tractor controls from tractor seat only.
- Do not stand between tractor and implement when tractor is in gear.
- Make sure parking brake is engaged before going between tractor and implement.
- Stand clear of machine while in operation or when it is being raised or lowered.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.

W2500794



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W2500833



W2500785



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OPERATION

The operator is responsible for the safe operation of the snow blower. The operator must be properly trained. Operators should be familiar with the tractor, snow blower, and all safety practices before starting operation. Read through safety rules and decals on page 5 through page 9.

A WARNING

- Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from your dealer. To locate your nearest dealer, check the Dealer Locator at www. WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.) Failure to follow instructions or safety rules can result in serious injury or death.
- Operators must be responsible, trained, familiar with the instructions and be physically capable of the safe operation of the equipment, its attachments, and all controls. Do not allow anyone to operate this equipment without proper instructions.
- Power unit must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in "locked up" position at all times.
- Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.
- Never allow children or untrained persons to operate equipment.
- Never go underneath equipment (lowered to the ground or raised) unless it is properly blocked and secured. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death. Follow Operator's Manual instructions for working underneath and blocking requirements or have work done by a qualified dealer.
- Keep bystanders away from equipment.
- Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.

- Never place hands or body into discharge chute or auger to unclog. Stored energy can cause auger to quickly rotate when unclogging occurs and cause severe injury or amputation. Stop engine, remove key, disconnect driveline, and carefully unclog, using a sturdy piece of wood.
- Keep hands and body away from pressurized lines. Use paper or cardboard, not hands or other body parts to check for leaks. Wear safety goggles. Hydraulic fluid under pressure can easily penetrate skin and will cause serious injury or death.
- Make sure that all operating and service personnel know that if hydraulic fluid penetrates skin, it must be surgically removed as soon as possible by a doctor familiar with this form of injury or gangrene, serious injury, or death will result.

CONTACT A PHYSICIAN IMMEDIATELY IF FLUID ENTERS SKIN OR EYES. DO NOT DELAY.

- Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower the 3-point hitch and all raised components to the ground, operate valve levers to release any hydraulic pressure, set parking brake, stop engine, remove key, and unfasten seat belt.
- Make sure spring-activated locking pin or collar slides freely and is seated firmly in tractor PTO spline groove.
- Operate tractor PTO at 540 RPM. Do not exceed.
- Make sure attachment is properly secured, adjusted, and in good operating condition.

A CAUTION

- If you do not understand any part of this manual and need assistance, see your dealer.
- Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.

NOTICE

Be sure to complete the Pre-Operation Check List on page 19 prior to operating this Snow Blower.

10 Operation

MAN1369 (10/31/2023)

PRINCIPAL COMPONENTS

The snow blower has three main operating components. An auger dislodges the snow and carries it to a central fan. The snow is then discharged by the fan and directed away from the blower through a controllable chute.

The snow blower is mounted on a tractor 3-point hitch and driven by the tractor PTO. A centrally located gearbox directs power to the fan and auger.

TRACTOR REQUIREMENTS

3-Point Hitch

The SB84.40 snow blowers require the tractor to be equipped with a Category 1 or Category 2 three-point hitch. The SB94.40 snow blowers require the tractor to be equipped with a Category 2 three-point hitch.

Hydraulic Circuit

Either closed-center or open-center systems can be used for the optional hydraulic spout control.

Tire Configuration

For best results, the tractor wheels should be set narrower than the cutting width of the snow blower. Wider wheel settings will cause snow to be pulled under the tractor and may require additional passes.

PTO Shaft

The tractor must be configured to accept a 1-3/8" 6-spline 540 RPM system and must meet horsepower specifications. See specifications, page 4.

Tractor Stability

A minimum 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, front tractor wheels could raise up resulting in loss of steering. The weight may be attained with front wheel weights, ballast in tires, front tractor weights or front loader. Weigh the tractor and equipment. Do not estimate.

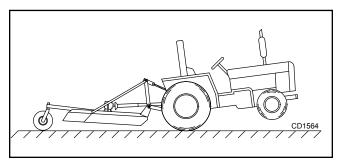


Figure 1. Tractor Stability (Typical)

ATTACHING SNOW BLOWER TO TRACTOR WITH A 3-POINT HITCH

Figure 2

- Make sure the parking stand is lowered. To do this, remove the round wire lock pin (item 9) from the parking stand (item 8), lower the parking stand and insert the round wire lock pin (item 9) under the snow blower attachment tube.
- Move the tractor into position in front of the snow blower. Move back slowly and carefully, not allowing anyone to be between the tractor and the snow blower.
- **3.** Turn off the tractor engine.
- 4. Attach the tractor lower arms with the two pins (item 1 for Cat 2 hitch, or item 2 for Cat 1 hitch) and secure in place with the 7/16" ring pins (item 4) in the upper holes for small tractors and in the lower holes for larger tractors.
- 5. Attach the tractor top link between the upper attachment plates of the snow blower with the pin and the ring pin (items 3 & 4) provided with the tractor.
- **6.** Adjust the snow blower using the tractor top link so that the back of the snow blower housing is perpendicular to the ground.
- Adjust the anti-sway devices of the tractor to prevent lateral swinging of the snow blower. Make sure there is no contact with the tires.
- 8. Raise the parking stand. To do this, remove the round wire lock pin (item 9) from the parking stand (item 8), raise the parking stand and insert the round wire lock pin (item 9) over the snow blower attachment tube.
- Go to Driveline Attachment section for further instructions.

A CAUTION

Before connecting the snow blower 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 13 to 15 for instructions.

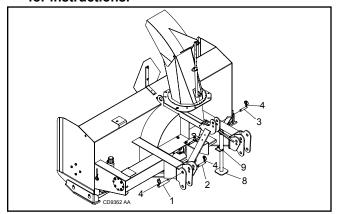


Figure 2. Attaching with a 3-Point Hitch

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ATTACHING SNOW BLOWER TO TRACTOR WITH A QUICK HITCH

Figure 3

- Make sure the parking stand is lowered. To do this, remove the round wire lock pin (item 9) from the parking stand (item 8), lower the parking stand and insert the round wire lock pin (item 9) under the snow blower attachment tube.
- Move the tractor into position in front of the snow blower. Move back slowly and carefully, not allowing anyone to be between the tractor and the snow blower.
- 3. Turn off the tractor engine.
- 4. Install lower hitch pins and bushings:
 - For Cat 1, insert a 1-7/16" OD x 2-1/8" long bushing (item 6) between the inner hitch plates and secure with the pin and ring pin (items 2 & 4).
 - For Cat 2, insert a 1-7/16" OD x 3-3/8" long bushing (item 5) between the outer hitch plates and secure in the upper holes with the pin and ring pin (items 1 & 4).
 - · Repeat for the opposite side.
- 5. Insert a Insert a 1-1/4" OD x 1-7/8" long long bushing (item 7) between the plates of the snow blower upper hitch and secure with the pin and the linchpin (items 3 & 4) provided with the tractor.
- 6. Make sure that the quick release latches are securely closed. Lower the 3-Point so that the hooks on the quick hitch are lower than the snow blower pins and bushings. Reverse the tractor slowly until the hooks are under snow blower pins and bushings. Then, raise the 3-Point until the quick-release latches snap on the pins with the snow blower bushings to lock the system.
- 7. Adjust the snow blower using the tractor top link so that the back of the snow blower housing is perpendicular to the ground.
- 8. Raise the parking stand. To do this, remove the round wire lock pin (item 9) from the parking stand (item 8), raise the parking stand and insert the round wire lock pin (item 9) over the snow blower attachment tube.
- Go to Driveline Attachment section for further instructions.

A CAUTION

Before connecting the snow blower 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 13 to 15 for instructions.

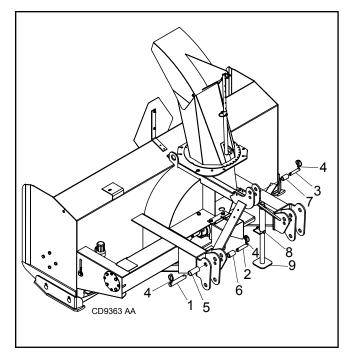


Figure 3. Attaching with a Quick Hitch

NOTICE

- If the PTO driveline is too long, severe driveline and gearbox damage is possible when hooking up the PTO driveline from the rotary snow blower to the tractor. The front PTO driveline is long enough to fit a variety of tractors. It is possible that the front PTO driveline will need to be cut. There will be NO benefit by cutting only one telescoping section. Both sections of the driveline must be cut. DO NOT FORCE THE PTO TO FIT.
- If attaching with quick hitch, the distance between the tractor PTO and gearbox input shaft will increase. Please follow the steps as you would for a 3-point hitch to insure proper engagement.
- When attaching snow blower to multiple tractors consider the drive length needed for each tractor and whether the drive line will work in all combinations.
- WARRANTY IS VOID IF THE PTO DRIVELINE IS TOO LONG, resulting in gearbox, PTO, yoke or cross bearing damage.

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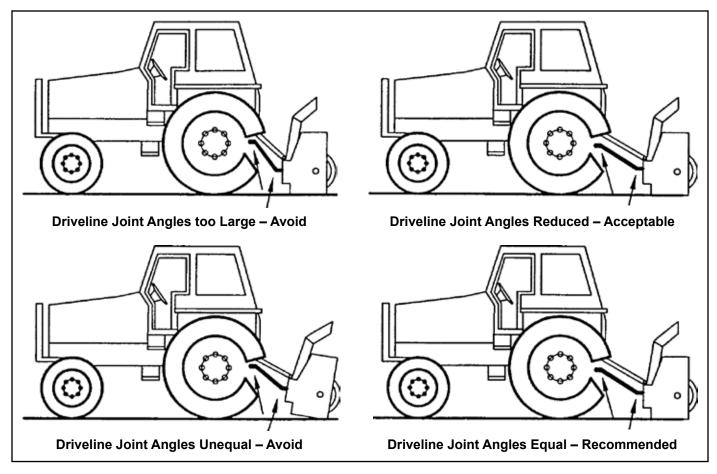


Figure 4. Driveline Joint Angles

DRIVELINE ATTACHMENT

Preparation of the Driveline

IMPORTANT: To obtain the proper universal joint angles, it is recommended to adjust the 3-Point hitch at the furthest point from the tractor recommended by the manufacturer. The universal joint angle is directly related with the life of driveline. To reduce the angle, it is necessary to increase the distance between the snow blower and the tractor.

IMPORTANT: Do not change the snow blower angle on the tractor hitch to obtain a better scraping effect. Avoid this practice as it can damage the driveline since the joint angle at each end is unequal. This results in a fan speed variation as well as an increased load on driveline bearings. It is always recommended to keep tractor PTO shaft and snow blower input shaft parallel.

Determining Driveline Length Figures 5 & 6

L = X - Y						
3-Point Hitch	Υ					
Category 1	4-1/2"					
Category 2	5-1/2"					

IMPORTANT: Before using the snow blower, make sure the driveline is the proper length. There must be sufficient overlap of the inner and outer drive tubes but there must not be any interference.

 To determine the "L" length for your tractor model first find the "X" distance by measuring between the end of the tractor's PTO shaft and the end of the snow blower's input shaft when the snow blower is in transport position as shown, when raised to maximum height.

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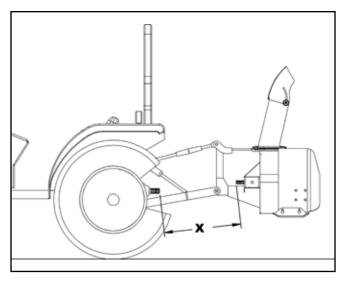


Figure 5. Find the "X" Distance

- From the table on the preceding page, use the "Y" value according to the 3-point hitch category and subtract that number from the "X" distance measured previously to determine "L".
- 3. Hold the two half-shafts side by side and locate the "L" length between the two center-to-center halfshaft universal joints. Mark off the zone to be cut on both halves opposite each half-shaft guard as shown in Figure 6.
- 4. Cut inner and outer plastic guard tubes.
- **5.** Cut the steel tubes to leave the 1-1/4" between the end of the guard and the end of each tube.

- **6.** File the ends of the tubes to remove burrs and clean out any chips.
- 7. Apply grease to the inside of the female tube section.

Driveline Installation

Figure 7

- Remove the paint from the gearbox shaft (item 1) and grease if needed. Grease also the sliding surfaces and yoke of the driveline.
- **2.** Remove the bolts (item 3) from the yoke and slide the driveline (item 1) on the gearbox shaft.
- Secure the driveline by resinstalling the bolts and nuts (items 3 & 4) in the orientation shown. Tighten the nuts according to the Bolt Torque Chart specifications at the end of the manual.
- 4. Raise the snow blower slowly to the maximum height while ensuring that there is enough room between the two sections of the driveline. Also make sure it is long enough when lowered.

A WARNING

Avoid serious injury or death – This shaft rotates at high speed (540 RPM). If the quick release system is not securely locked on the tractor shaft, (a click must be heard), or if the coupling to the snow blower is not secured correctly, the driveline can be released with force which can cause serious injury or death.

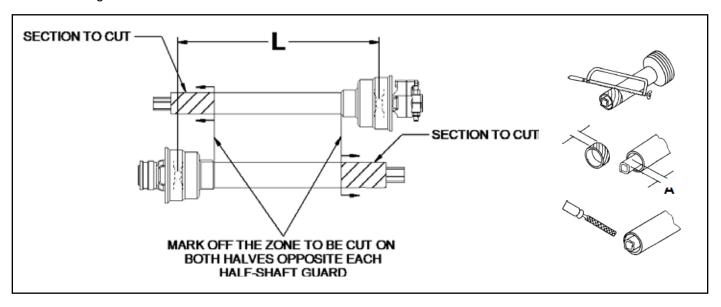


Figure 6. Determining Driveline Length

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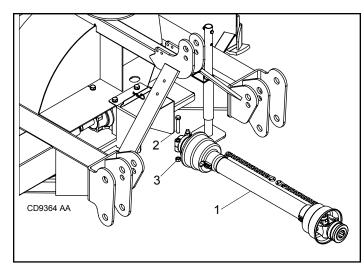


Figure 7. Driveline Installation

MACHINE BREAK-IN

Although there are no operational restrictions on the snow blower when used for the first time, the following items are to be checked.

After operating for 1/2 hour:

- Check all nuts, bolts and other fasteners. Tighten to the specifications shown in the Bolt Torque Chart.
- 2. Check drive chain tension. Adjust as required.
- Check that auger, fan and chute are in good condition.
- **4.** Check oil level in the gearbox. Add as required.
- 5. Lubricate all grease points.

After operating for 5 to 10 hours:

- 1. Repeat items 1 through 4 of Section A.
- 2. Then go to normal Owner Service Section, page 20.

OPERATING TECHNIQUE

Each operator should review this section of the manual at the start of the season and as often as required to be familiar with the machine. When using, follow this procedure:

- Review and follow the "Pre-Operation Check List," page 19.
- Review "Attaching Snow Blower to Tractor" section, page 11.
- **3.** Before going to the field, review "Transporting" section, page 17.
- 4. Position snow blower in a level area and lower into working position. Make sure the parking stand is in the raised position and that the snow blower is clear of snow and other material.
- 5. Starting Snow Blower:
 - · Be sure area is clear of all bystanders.
 - · Run engine at low idle.
 - Slowly engage PTO control to start machine.
 - Slowly bring engine to rated PTO speed. Never exceed rated speed
- 6. Stopping Machine:
 - Slowly decrease engine speed to low idle.
 - Wait until PTO drive and snow blower have slowed to low engine idle speed before disengaging PTO drive.

A WARNING

- Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower the 3-point hitch and all raised components to the ground, operate valve levers to release any hydraulic pressure, set parking brake, stop engine, remove key, and unfasten seat belt.
- Before performing any service or maintenance, disconnect driveline from tractor PTO.
- 7. Do not operate with bystanders in area. The machine can pick up stones, sticks, wire and other debris and throw it out with enough force to cause severe injury or death to bystanders. Shut down machine and wait for moving parts to stop before approaching machine.
- 8. Ground Speed: Travel speed can vary between 1.5 and 7 mph depending on material and terrain conditions. It is the responsibility of the operator to note the condition of the job being done and set the speed to obtain proper feeding rate and maintain safe control of machine.
- 9. The input driveline and side drive shaft are both protected by shear bolts in case of shock load from striking an obstruction. To access the shear bolts, lift the guards, (items 3 and 4). See parts section for bolt size and grade.

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A WARNING

- Never direct discharge toward people, animals, or property. Rocks, snow, ice and other materials can be thrown up to 300 feet during operation.
- Know where you are operating. Remove all unwanted trash and debris before starting. It can wrap around auger or be thrown out of machine during operation.
- Keep auger and fan in good condition. Do not operate with a damaged fan or auger.
- Do not allow the auger to hit and scalp ground during operation. Hitting ground will pick up soil or rocks that can be thrown out of machine.

Adjusting Discharge Direction

To change direction of snow discharge, turn the manual rotation handle clockwise to turn the chute to the right.

If this snow blower is equipped with the optional hydraulic chute rotation, activate the appropriate tractor controls to rotate the chute. Reverse hoses if the rotation is not in the desired direction.

NOTE: For hydraulic rotator option, if chute turns too quickly, adjust flow control on tractor hydraulics.

NOTE: Operating hydraulic deflector cylinder requires low tractor flow rates. When initially operating cylinder reduce tractor hydraulic flow rate toprevent deflector damage and improve resolution of deflector adjustment.

Adjusting Discharge Chute Deflector Position

Figure 8

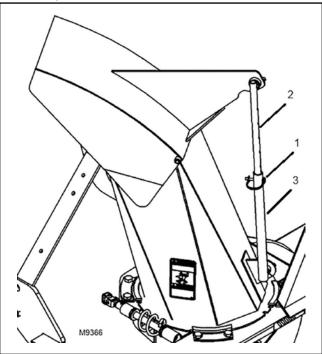
The height of snow discharge is controlled by position of chute deflector on discharge chute.

To adjust the deflector angle, remove the round wire lock pin (item 1) and move the adjusting rod (item 2) in or out of the adjusting tube (item 3) and select a set of holes at the desired angle. Reinsert the round wire lock pin (item 1) to hold the position.

If this snow blower is equipped with a hydraulic deflector, activate the tractor controls to move the deflector. Reverse hoses if movement of the deflector is not in the desired direction.

If this snow blower is equipped with an electric deflector, operate the switch to move the deflector.

NOTE: If possible, blow snow with the wind. Beware of



people or buildings in the area.

Figure 8. Discharge Chute Position

A WARNING

- Keep bystanders away from equipment.
- Wear appropriate hearing protection.
- **10.** Allow the snow blower to work its way through the snow rather than forcing it.
- 11. In deep snow it may be necessary to raise the snow blower for the first pass through and clean up the remainder with a second pass.
- 12. Do not feed snow through snow blower when raising

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or lowering.

TRANSPORTING

A WARNING

- A minimum 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, front tractor wheels could raise up resulting in loss of steering. The weight may be attained with front wheel weights, ballast in tires, front tractor weights or front loader. Weigh the tractor and equipment. Do not estimate.
- Never allow riders on power unit or attachment.
- Do not operate PTO during transport.

A CAUTION

 Always comply with all state and local lighting and marking requirements.

NOTICE

Do not exceed 20 mph (32km/h). Reduce speed on rough roads and surfaces.

When transporting snow blower, review and follow this procedure:

A CAUTION

- Be sure all bystanders are clear of machine.
- Be sure that machine is securely attached to tractor and all retainer pins are installed.
- Raise machine.
- Do not allow riders.

SNOW REMOVAL METHODS

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

IMPORTANT: Use full 540 RPM power when removing wet, sticky snow. Low RPM power will tend to clog the chute.

A WARNING

■ 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 PTO according to owner's manual, 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 need to perform a second pass with the snow blower.

Where it is possible to throw the snow to the left and right (see next page), 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 chute.

If the snow can only be thrown to one side of the driveway or sidewalk (see next page), 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 chute 180 degrees to maintain the direction of throw in the same area.

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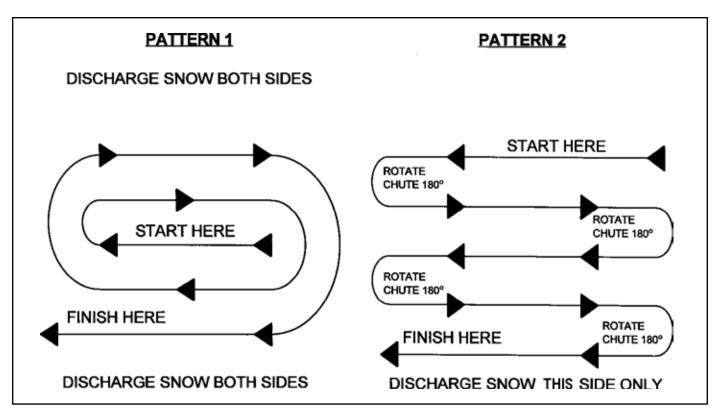


Figure 9. Snow Removal Patterns

STORAGE

A WARNING

- Block equipment securely for storage.
- Keep children, bystanders, and animals away from the equipment and the storage area.

After season's use, machine should be thoroughly inspected and prepared for storage. Repair or replace any worn or damaged components to prevent any unnecessary down time at start of next season.

To insure a long, trouble free life, this procedure should be followed when preparing unit for storage.

- Clear area of bystanders.
- Thoroughly wash machine to remove all dirt, mud, debris or residue.

- **3.** Check auger, fan and drivelines for damage or entangled material. Repair or replace damaged parts. Remove the entangled material.
- 4. Inspect all hydraulic hoses, fittings, lines and couplers. Tighten any loose fittings. Replace any hose that is cut, nicked or abraded or is separating from crimped end of fitting.
- **5.** Change oil in gearbox.
- **6.** Lubricate all grease fittings. Make sure that all grease cavities have been filled with grease to remove any water residue from washings.
- **7.** Touch up all paint nicks and scratches to prevent rusting.
- 8. Move to storage area.
- **9.** Select an area that is dry, level and free of debris.
- 10. Unhook from tractor (see page 11).
- **11.** Store machine in an area away from human activity.
- **12.** Do not allow children to play on or around stored machine.

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CLEANING

After Each Use

- Remove large debris such as clumps of dirt, grass, crop residue, etc. from machine.
- Inspect machine and replace worn or damaged parts.
- Replace any safety decals that are missing or not readable.

Periodically or Before Extended Storage

- Clean debris such as clumps of dirt, grass, crop residue, etc. from machine and remove buildup of grease, or oil.
- Remove remaining debris using a low-pressure water spray.
- Be careful when spraying near scratched or torn safety decals or near edges of decals as water spray can peel decal off surface.
- 2. Be careful when spraying near chipped or scratched paint as water spray can lift paint.
- 3. If a pressure washer is used, follow the advice of the pressure washer manufacturer.
- Inspect machine and replace worn or damaged parts.
- Sand down scratches and the edges of areas of missing paint and coat with Woods spray paint of matching color (purchase from your Woods dealer).
- Replace any safety decals that are missing or not readable (supplied free by your Woods dealer). See Safety Decals section for location drawing.

PRE-OPERATION CHECKLIST

(OWNER'S RESPONSIBILITY)

 Review and follow all safety rules and safety decal instructions on page 5 through page 9.
 Check that all safety decals are installed and in good condition. Replace if damaged.
Check that all shields and guards are properly installed and in good condition. Replace if damaged.
 Check that all hardware and cotter pins are properly installed and secured.
 Check that equipment is properly and securely attached to tractor.
Make sure driveline spring-activated locking pin or collar slides freely and is seated firmly in tractor PTO spline groove.
 Inspect area and remove stones, branches or other hard objects that might be thrown, causing injury or damage.
 Do not allow riders.
Check the drive chain for tension. If too loose, adjust the idler sprocket. A 1/4" sag in the bottom span is satisfactory.
Check all lubrication points and grease as instructed in "Service, lubrication information". Make sure the PTO slip joint is lubricated and that the gearbox fluid levels are correct.
 Set tractor PTO at 540 RPM only.
 Check that all hydraulic hoses and fittings are in good condition and not leaking before starting tractor. Check that hoses are not twisted, bent sharply, kinked, frayed or pulled tight. Replace any damaged hoses immediately.
Make sure tractor ROPS or ROPS CAB and seat belt are in good condition. Keep seat belt secure- ly fastened during operation.

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OWNER SERVICE

The information in this section is written for operators who possess basic mechanical skills. If you need help, your dealer has trained service technicians available. For your protection, read and follow the safety information in this manual.

A WARNING

- Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from your dealer. To locate your nearest dealer, check the Dealer Locator at www. WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.) Failure to follow instructions or safety rules can result in serious injury or death.
- Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower the 3-point hitch and all raised components to the ground, operate valve levers to release any hydraulic pressure, set parking brake, stop engine, remove key, and unfasten seat belt.
- NEVER GO UNDERNEATH EQUIPMENT. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak-down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.
 - Service work does not require going underneath implement.
 - Read Operator's Manual for service instructions or have service performed by a qualified dealer.
- Before performing any service or maintenance, disconnect driveline from tractor PTO.
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.
- Make sure shields and guards are properly installed and in good condition. Replace if damaged.
- Make sure attachment is properly secured, adjusted, and in good operating condition.
- Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.
- If you do not understand any part of this manual and need assistance, see your dealer.
- For continued protection against risk of fire, replace ONLY with a fuse of the same type and having the same electrical rating.

- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.
- Tighten all bolts, nuts, and screws to Bolt Torque Chart specifications. Check that all cotter pins are installed securely to ensure equipment is in a safe condition before putting unit into service.

SERVICE AND MAINTENANCE INTERVALS

By following a careful service and maintenance program, you will prolong the life of your machine.

The service intervals recommended are based on normal operating conditions. Severe or unusual conditions may require more frequent service.

Lubrication Information

- 1. Do not let excess grease collect on or around parts, particularly when operating in sandy areas.
- 2. Use a hand-held grease gun for all greasing.
- Use a lithium grease of #2 consistency with a MOLY (molybdenum disulfide) additive for all locations unless otherwise noted. Be sure to clean fittings thoroughly before attaching grease gun.
- **4.** If grease fitting will not take grease, remove and clean thoroughly. Also clean lubricant passage way. Replace fitting if necessary.
- **5.** Two good pumps of most grease guns is sufficient when the lubrication schedule is followed.

Driveline Lubrication

- 1. Lubricate the driveline slip joint every 8 hours of operation. Failure to maintain proper lubrication could result in damage to u-joints, gearbox, and driveline.
- Lower snow blower to ground, disconnect driveline from tractor PTO shaft, and slide halves apart. Do not disconnect the halves from each other.
- Apply a bead of grease completely around male half where it meets female half. Slide drive halves over each other several times to distribute grease.
- **4.** Apply one pump of grease to each driveline u-joint grease fitting.
- Apply one pump of grease to each of the plastic driveline shield bearings.
- **6.** On the shear pin driveline, lubricate the shear yoke with grease to prevent galling.
- Periodically check the yokes on the front PTO. Make sure the bolt and nut are tight and the yoke is not moving on the gearbox shaft.

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Shear Bolt Replacement

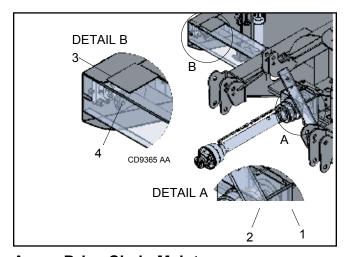
Figure 10

The input driveline and side drive shaft are both protected by shear bolts in case of shock load from striking an obstruction. To access the shear bolts, lift the guards, (items 1 & 3). See parts section for bolt size and grade.

A WARNING

- Always use approved shear bolt as replacement part. Using a hardened bolt or shear pin may result in damage to driveline or gearbox.
- Before proceeding, read and follow all safety rules.
- 1. Shut off tractor and remove the key.
- Remove any obstructions from the auger, chain, or sprockets.
- **3.** To access the shearbolts, (items 2 and 4), lift the guards, (items 1 and 3).
- **4.** Remove the damaged bolt and rotate the auger by hand to align the holes.
- Install new shear bolt and nut shown in the parts lists and tighten to the specification shown in the Bolt Torque Chart.

Figure 10. Shear Bolts



Auger Drive Chain Maintenance

The auger chain should be inspected every 25 hours. New chain has a tendency to stretch, so it is necessary to check the chain tension to prevent flopping around, thus causing potential problems. Chain tension is preset at the factory. If chain becomes excessively loose, it may be necessary to readjust the idler sprocket, Figure 11.

NOTICE

 Replacement chain should be only high quality original equipment chain for longer life.

Drive Chain Adjustment

Figure 11

IMPORTANT: A tension too tight can cause premature wear of the chain. It is important not to tighten the chain to its maximum. Adjust the chain according to the following steps:

- Loosen the bolt (item 1) securing the idler sprocket to the snow blower.
- 2. Adjust the bolt height to obtain a deflection of 1/8" in one chain length.
- Securely tighten the bolt (item 1) securing the idler sprocket.

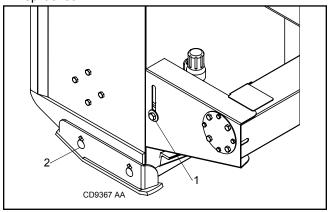


Figure 11. Chain & Skid Shoe Adjustment

Skid Shoe Adjustment

Figure 11

The machine is equipped with skid shoes on bottom side of each side plate to prevent wearing frame and to provide depth control. They should be checked occasionally for wear and replaced if required.

A WARNING

- Before proceeding, read and follow all safety rules
- Place a 4" x 4" block under each end of snow blower frame. Block only high enough for the skid shoes to clear ground.
- 2. Lower snow blower to sit securely on blocks.
- **3.** Properly secure tractor and release all hydraulic pressure.
- Loosen and remove skid shoe mounting bolts and nuts (2).
- Remove skid shoe and inspect for wear or other damage - Replace as needed.
- **6.** Reassemble skid shoe and adjust for the desired height.

IMPORTANT: Adjust the snow blower so that the skid shoes run level and according to the surface conditions so that stones are not thrown with the snow. Make sure the skid shoes are at the same height to keep cutting edge leveled.

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Remove the bolts (item 2) and reinsert them in the appropriate hole according to the following:

- · On level paved surfaces Use the lower holes.
- On uneven surfaces or gravel Use the middle or upper holes.
- **7.** Tighten mounting bolts and nuts (2) per specifications in the Bolt Torque Chart.

Lubrication

Figure 12

IMPORTANT: Perform all the maintenance section without taking into account the hours given in the following cases:

- At least once a year if the snow blower is used less than 20 hours annually.
- · After each storage period.
- After each wash.

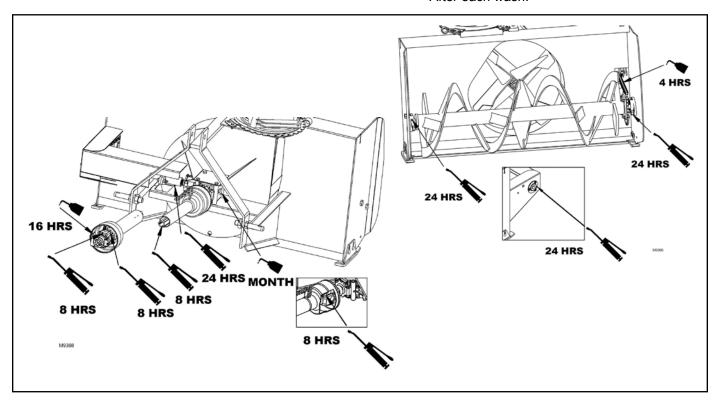


Figure 12. Lubrication

DESCRIPTION	INTERVAL	REQUIRED LUBRICATION
Gearbox	Monthly	Check oil level. If needed, add extreme pressure oil, SAE 80W90 gear oil or equivalent
Godinox	Once a year	Replace Oil.
Drive chain	4 hours and after each operation	Lubricate with chain saw lubricant.
Drive shaft	24 hours of operation	Grease at the shear plate and the grooved section with the grease fittings. Use a Shell Gadus S5 V100 grease or equivalent.
Bearings	24 hours of operation	Grease each auger and drive shaft bearings and the grease fitting of the shear plate. Use a Shell Gadus S5 V100 grease or equivalent.
Driveline	8 hours	Grease each universal joint. Separate the sliding parts and cover each with grease.
2	16 hours	Oil the quick connect yokes.

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Gearbox

Figure 13

Change oil in the gearbox after the first 30 hours, or 30 days of operation. After that, follow the lubrication chart instructions to check monthly. It is best to change the oil at the end of the season to remove moisture and contaminants.

A WARNING

 Before proceeding, read and follow all safety rules.

To check oil level:

- **1.** Remove the plug (1).
- If the oil level is not up to the bottom of the hole, fill with SAE 80W90 oil until it flows out the level plug hole.
- 3. Reinstall the plug (1).

To change the oil:

- Run the snow blower briefly to warm the oil and suspend the contaminants.
- 2. Remove the plug (1).
- **3.** Remove the oil through the level plug hole using a suction pump.
- Refill with SAE 80W90 oil until it flows out the level plug hole.
- 5. Reinstall the plug (1).

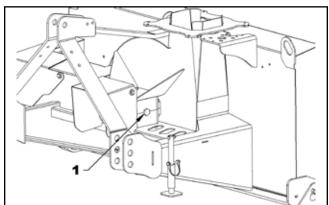


Figure 13. Gearbox Oil

PTO Driveline Guard

The shield must turn freely on PTO shaft. Daily lubrication of both shield bearings and periodic cleaning will ensure safe operation of the shield.

If shield is damaged or worn, replace components with genuine Woods service parts.

Comer Driveline

Figure 14

- Rotate three rectangular plastic pins with a screw driver 90°.
- 2. Lift pins out with screw driver.
- 3. Remove bell housing and shaft.
- **4.** Replace components as needed. Follow steps 1 through 3 in reverse.



Figure 14. Comer Driveline

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TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION		
PTO Shaft shear bolt continues to shear	PTO shaft at too great an angle.	Do not exceed a 15 degree angle at PTO shaft.		
	PTO shear bolt is too soft.	Use a grade 8.8 bolt. (Comer 40 series)		
	Tilt on the snow blower is too great causing an excessive knuckle angle.	Reduce tilt on snow blower by adjusting upper 3-point link.		
Snow Blower augers continue to plug	Tractor ground speed is too fast.	Reduce ground speed to allow augers to clear better.		
	Insufficient fan speed.	Increase tractor PTO speed to 540 RPM.		
Snow does not discharge properly	Insufficient fan speed.	Maintain a PTO speed of 540 RPM.		
disoriarge property	Augers are overloaded with snow.	Reduce ground speed.		
	Snow is wet and sticky.	Reduce ground speed to allow for better aeration of snow.		
Snow Blower tends to dig or float on snow	Tilt on snow blower not adjusted properly.	Adjust upper link on 3-point to level the blower.		
	Skid Shoes not adjusted prop-erly.	Adjust skid shoes to be even with cutting edge.		
Auger fails to turn	Auger drive shear bolt has sheared.	Replace auger drive shear bolt.		

24 Troubleshooting

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ASSEMBLY

DEALER SET-UP INSTRUCTIONS

Assembly of this snow blower is the responsibility of the Woods dealer. It should be delivered to the owner completely assembled, lubricated and adjusted for normal conditions.

The snow blower is shipped partially assembled. Assembly will be easier if components are aligned and loosely assembled before tightening hardware. Recommended torque values for hardware are shown in the Bolt Torque Chart.

Select a suitable working area. A smooth, hard surface, such as concrete, will make assembly much quicker. Open parts boxes and lay out parts and hardware to make location easy. Refer to illustrations, accompanying text, parts lists and exploded view drawings.

A WARNING

 To avoid serious injury or death: Read and understand the Safety Rules at the beginning of this manual before assembly. Support the snow blower securely during assembly.

Preparation

- Remove the top and sides of the crate. Carefully cut bands and straps securing the chute assembly, driveline and SMV sign and set aside.
- 2. Using a lifting device with a capacity of at least 1500 lb., support the snow blower and remove hardware attaching it to the skid.
- **3.** Raise the snow blower, slide the skid out and lower the snow blower to the ground.

SMV Sign Installation

Figures 15 and 16

1. Remove the 1/4 NC x 1" bolt, the flat washer and the 1/4 NC nylon insert nut (items 1, 2, 3) that fixes the sign (item 4) to the frame. Save the hardware.

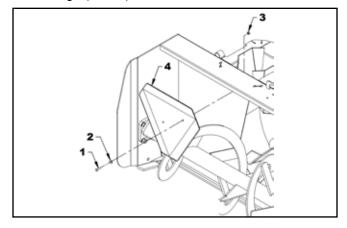


Figure 15. SMV Sign Preparation

2. Install the sign support (item 1) on the snow blower with two 1/4 NC x 1" bolts, flat washers and 1/4 NC nylon insert nuts (items 2, 3, 4).

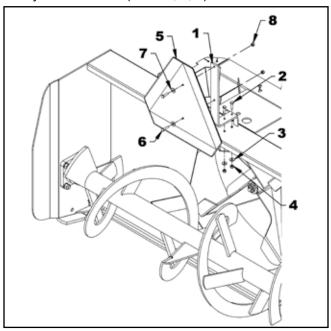


Figure 16. SMV Sign Installation

- Using the hardware previously removed, attach the SMV sign (item 5) with two 1/4 NC x 1" bolts, flat washers and 1/4 NC nylon insert nuts (items 6, 7, 8).
- **4.** Remove the black protective film from the SMV sign.

Chute Installation with Manual Rotator Figures 17 - 20

- 1. Figure 17: Insert the 1-11/16" plastic bushing (item 1) in the worm support bracket (item 2)and insert the long end of the rotation worm (item 3).
- 2. Insert the 1-5/16" plastic bushing (item 4) in the welded tube of the snow blower (item 5).
- 3. Place the worm support (item 2) and the support spacer (item 10) under the snow blower's left upper plate (item 6).
- **4.** Figure 18: Apply grease on the chute base and around the snow blower chute ring. Install the chute (item 1) with the four retaining plates (item 3), four spacers (item 2) and eight 1/4 NC x 3/4" bolts and flanged nuts (items 4, 5). Tighten securely.

NOTE: Use high quality grease designated "extreme pressure" and containing molybdenum disulfide. The label may specify "Moly EP".

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5. Insert the rotation tube (item 7) in the worm assembly, aligning the holes, and insert a #10-24 x 1" socket head capscrew (item 8), making sure the screw sinks into the rotation worm (item 3). Secure with a #10-24 nylon insert nut (item 9).

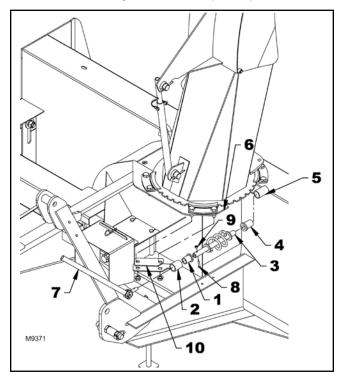


Figure 17. Chute Preparation

- **6.** Figure 19: Install the rotation bracket (item 1 on the right arm of the three point hitch with two 3/8 NC x 1-1/4" bolts, lockwashers and nuts (items 2, 3, 4). Tighten securely.
- Attach the handle support bracket (item 5) to the rotation bracket (item 1) with a 3/4 NC x 1-1/4" bolt, lockwasher and nut (items 6, 7, 8) making sure to orient the bracket as shown.
- 8. Insert the handle support (item 9) in the bracket (item 5) and adjust the height of the support according to your needs and secure in place with a 3/8 NC x 1/2" square head setscrew (item 10).
- Insert the grommet (item 11) in the handle support (item 9).
- 10. Figure 20: Insert the rotation handle (item 1) in the handle support (item 4) and in the rotation tube. Select desired length, align nearest holes and secure with the 4 mm x 80mm hairpin (item 2). Install the plastic handle (item 3).
- 11. Figure 19: Once the snowblower is attached to the tractor, adjust handle position and height to ensure comfort and safe operation. Tighten setscrew (item 10) on the handle support as well as the 3/4 NC x 1-1/2" bolt, lockwasher and 3/4 NC nut (items 6, 7, 8).

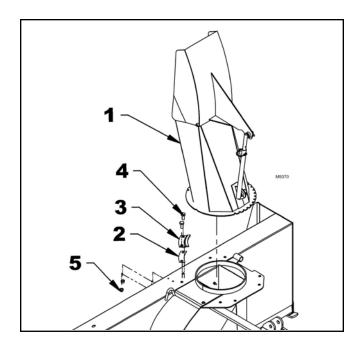


Figure 18. Chute Installation

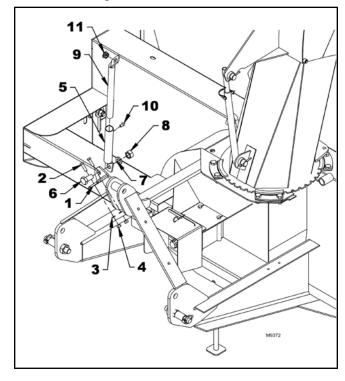


Figure 19. Handle Support Assembly

- 12. Figure 20: To insure the manual rotator functions properly, position the handle support (item 4) as close as possible to the top link mounting point of the three point hitch while making sure it does not come into contact with the operator's seat when the snowblower is fully raised.
- **13.** Tighten all bolts to the specifications in the Bolt Torque Chart at the end of this manual.

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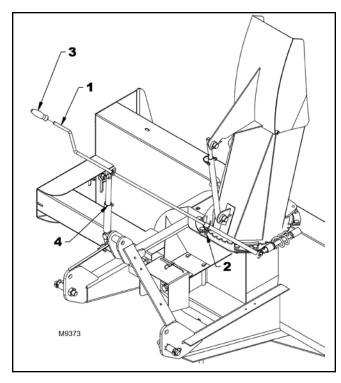


Figure 20. Rotator Handle Assembly

A CAUTION

To avoid personal injury, check the full lifting range of the snowblower, to ensure that the chute rotation handle is clear of the operator's area when the snowblower is in raised position.

Chute Installation with Hydraulic Rotator Figures 21 - 23

- **1.** Figure 21: Place the hole identified "POSITION" over the indentation in the housing.
- 2. Apply grease on the chute base and around the snowblower chute ring and install the chute with the four retaining plates (item 1), eight 1/4 NC x 3/4" bolts and eight serrated flange nuts (items 2, 3). Do not tighten immediately.
- **3.** Attach the rotation bracket (item 5) in the slot on the left side of the housing with a 1/2 NC x 1-1/4" hex. bolt and 1/2 NC serrated flange nut (items 6, 7).
- **4.** Place the spacer ring (item 8) on the 13/16" hole of the housing; insert the pivot bushing (item 9) in the bell crank (item 10) and slide the bell crank between the flat bars of the rotation bracket (item 5).

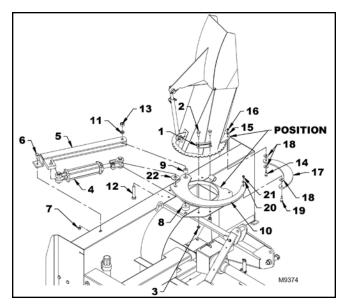


Figure 21. Hydraulic Rotator Preparation

5. Attach the other end of the bracket and the bell crank (fig. 7, items 5-10) in the 13/16" hole of the housing with the 3/4" NC x 5" hex. bolt, lockwasher and 3 nut (fig. //, items 1, 2, 3) in the exact order shown. Tighten securely.

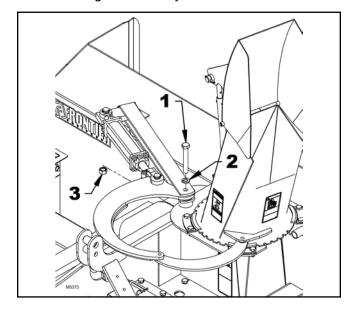


Figure 22. Hydraulic Rotator Installation

6. Grease generously both holes of the push arm (item 17) and install one end under the flat bar welded on the base of the chute and secure with a 1/2" x 1" shoulder screw, two 1/2" flat washers, a 3/8" flat washer and a 3/8 NC stover nut (items 14, 15, 16, 18) in the exact order shown. Tighten leaving some movement to the mechanism.

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- 7. Install the other end of the push arm (item 17) under the bell crank (item 10) and secure with a 1/2" x 1" shoulder screw, a 1/2" flat washer, a 3/8" flat washer and a 3/8 NC stover nut (items 18, 19, 20, 21) in the exact order shown. Tighten leaving some movement to the mechanism.
- 8. Attach the fixed section of the cylinder (item 4) to the rotation bracket (item 5) and the sliding section to the bell crank (item 10) placing a 1" flat washer (item 22) between the cylinder yoke and the top of the bell crank then secure with the cylinder pins and the circlips. Point the hydraulic ports upward as illustrated.

NOTE: The 1" flat washer (item 22) is required only if the cylinder pin rubs against the snowblower housing.

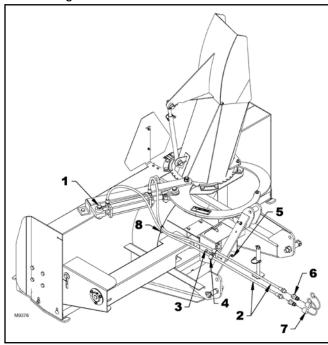


Figure 23. Hydraulic Hoses

- **9.** Connect the 3/8" ends of both hoses (item 2) to the cylinder (item 1) and install a quick coupler with rubber dust cap (items 6, 7) at the end of each hose.
- **10.** Secure the hoses on the three-point hitch with the hose clamp, 3/8 NC x 1-1/2" bolt and 3/8 NC nylon insert nut (items 3, 4, 5) and attach hoses together with the nylon tie wraps (item 8) where needed.

A CAUTION

- 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.
 - Stop engine and relieve pressure before connecting or disconnecting lines.

- Tighten all connections before starting engine or pressurizing lines.
- If any fluid is injected into the skin, obtain medical attention immediately or gangrene may result.

Optional Hydraulic Chute Deflector Figures 24 - 25

A WARNING

- Keep hands and body away from pressurized lines. Use paper or cardboard, not hands or other body parts to check for leaks. Wear safety goggles. Hydraulic fluid under pressure can easily penetrate skin and will cause serious injury or death.
- Remove the manual chute deflector by straightening and removing cotter pins. Store for later use if snow blower is moved to a tractor with less hydraulic capability.
- 2. Figure 24: Remove one retaining ring (item 4) from the pin (item 3) at the base end of the hydraulic cylinder (item 6). Attach the cylinder to the lug (item 5) on the discharge chute using the pin and ring (items 3, 4).

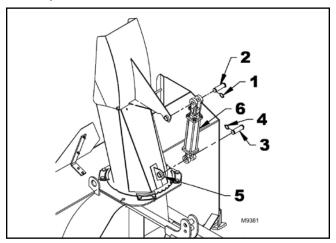


Figure 24. Attach Hydraulic Cylinder

- 3. Using thread sealant, connect the 3/8 NPT ends of both hoses (item 2) to the hydraulic cylinder (item 1).
- Figure 25: Using thread sealant, connect the 1/2 NPT end of each hose (item 2) to a quick coupler (item 6) and dust cap (item 7).
- 5. Secure the hoses to the hole provided in the three-point hitch using hose clamp (item 4) and 3/8 NC x 1-1/2" bolt (item 3) and 3/8 NC nylon insert nut (item 5). Tie the two hoses together at equal intervals using plastic ties (item 8) and trim excess length from each tie.

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NOTE: Make sure to leave enough slack in the hoses to allow for free movement as the discharge chute rotates from side to side.

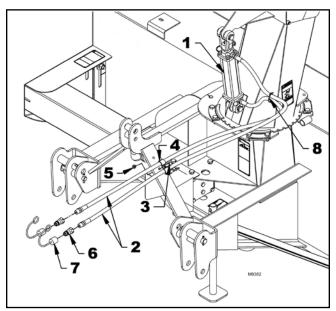


Figure 25. Assemble Hydraulic Hoses

Optional Electric Chute Deflector Figures 26 - 29

- 1. Remove the manual chute deflector by straightening and removing cotter pins.
- 2. Figure 26: Assemble the longer clevis (item 1) to the base end of the actuator (item 2) and assemble the shorter clevis (item 3) to the rod end of the actuator using 1/2 NC x 2-1/2 bolts and 1/2 NC nylon insert nuts (items 4, 5).

NOTE: Be sure to attach the actuator as shown in the figure to avoid damaging the electric cylinder.

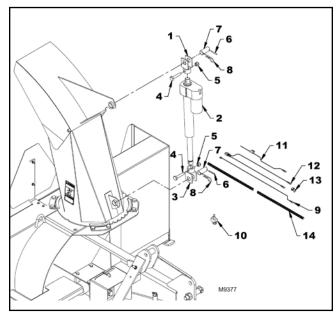


Figure 26. Attach Electric Actuator

- Assemble the actuator to the discharge chute using pins (item 7) and secure with a 3/16 x 1-3/4 spring pin (item 6) and a 4mm x 80mm hair pin (item 8) on each.
- Connect the actuator wire's female connector (item 12) to the electric actuator (item 2). Protect the wires by enclosing in loom (item 14) and secure with wire ties.

NOTE: Make sure to leave enough slack in the wiring to allow for free movement as the discharge chute rotates from side to side.

- **5.** Install the snow blower on the tractor by following the instructions of the Operation Section.
- Choose the location for the switch on a convenient control lever on the tractor. Connect wires to the switch as shown in the wiring diagram.
 - Black ground wire (item 9) to terminal "C".
 - · Red wire with fuse (item 11) to terminal "B".
 - Red and black wires from actuator to terminals "A" and "D".

NOTE: If your tractor is not equipped with a valve lever, it is possible to position the switch in another place so that it is easily accessible but it must not interfere with the controls already present on the tractor.

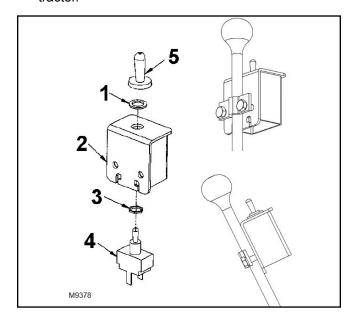


Figure 27. Attach Switch Box

 Figure 27: Insert the switch (item 4) in the switch box (item 2) and secure with nuts (items 1, 3). Attach the rubber cap (item 5) on the switch.

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8. Attach the switch box (item 1) on the lever in a convenient position using clamp (item 5) and two 1/4 NC x 3/4" bolts and lockwashers (items 3, 4).

NOTE: Tighten the bolts just enough to secure the clamp and the switch box on the lever. Do not over-tighten to prevent damage..

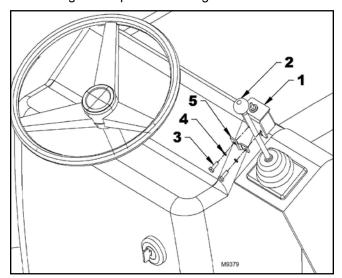


Figure 28. Mount Switch Box

Run the black ground wire (item 9) to any grounding screw on the tractor. 10. Locate a wire on the tractor that is an accessory power source, that is, only having current when the ignition is switched on. Connect the fuse wire (item 11) to that switched wire using the tap connector (item 13).

A CAUTION

- For continued protection against risk of fire replace ONLY with a fuse of the same type and having the same electrical rating
- 11. Install the protective loom on the two power wires (red and black) and cut off the excess. Apply electrical tape to hold enclosures closed. Fasten everything in place on the tractor with nylon tie wraps.
- 12. Make sure to lower and rise the snow blower and rotate the chute into all positions to see if the electric harness is long enough and do not interfere with any component.

NOTE: If the functions are opposite to the direction of the switch, only reverse the red wire and the black wire on terminals A and D of the switch.

A CAUTION

 For continued protection against risk of fire, replace ONLY with a fuse of the same type and having the same electrical rating.

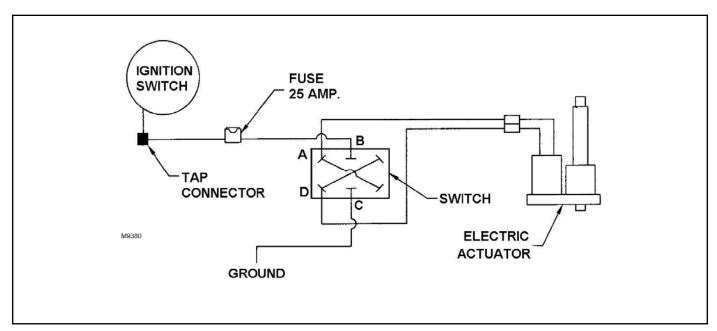


Figure 29. Electrical Diagram

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DEALER CHECKLISTS

DEALER PRE-DELIVERY CHECKLIST

(DEALER'S RESPONSIBILITY)

Inspect the equipment thoroughly after assembly to ensure it is set up properly before delivering it to the customer.

The following check lists are a reminder of points to in-

spect. Check off each item as it is found satisfactory or after proper adjustment is made.
Check that all safety decals are installed and in good condition. Replace if damaged.
Check that shields and guards are properly installed and in good condition. Replace if damaged.
Check all bolts to be sure they are tight.
Check that all cotter pins and safety pins are properly installed. Replace if damaged.
Check and grease all lubrication points as identified in "Service, lubrication information".

Check the level of gearbox fluids before delivery. Service, if required, as specified in the "Service,

lubrication information."

DELIVERY CHECKLIST

(DEALER'S RESPONSIBILITY)

 Show customer how to make adjustments and select proper PTO speed.
 Instruct customer how to lubricate and explain importance of lubrication.
 Point out the safety decals. Explain their meaning and the need to keep them in place and in good condition. Emphasize the increased safety hazards when instructions are not followed.
 Present Operator's Manual and request that customer and all operators read it before operating equipment. Point out the manual safety rules, explain their meanings and emphasize the increased safety hazards that exist when safety rules are not followed.
 Show customer how to make sure driveline is properly installed and that spring-activated locking pin or collar slides freely and is seated in groove on tractor PTO shaft.
 Explain to customer the potential crushing hazards of going underneath raised equipment. Instruct customer that service work does not require going underneath unit and never to do so.
Point out the correct mounting and routing of hydraulic hoses. Explain that during operation, mounting, dismounting and storage, care must be taken to prevent hose damage from pulling, twisting and kinking.
Show customer the safe, proper procedures to be used when mounting, dismounting, and storing equipment.
For mounted units, add wheel weights, ballast in front tires, and/or front tractor weight to enhance front end stability. A minimum 20% of tractor and equipment gross weight must be on front tractor wheels. When adding weight to attain 20% of tractor and equipment weight on front tractor wheels, you must not exceed the ROPS weight certification. Weigh the tractor and equipment. Do not estimate!
 Make customer aware of optional equipment available so that customer can make proper choices as required.
 Point out all guards and shields. Explain their importance and the safety hazards that exist when not kept in place and in good condition.

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NOTES

32 Dealer Checklist

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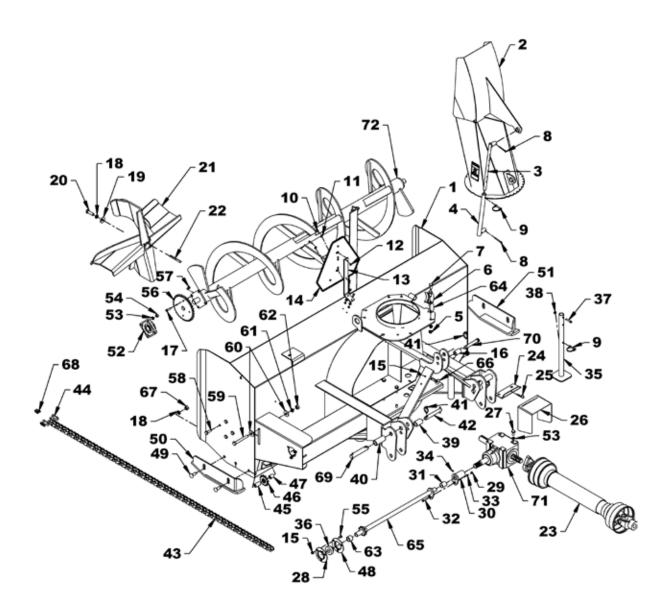
SNOW BLOWER

SB84.40 SB94.40

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SB84.40, SB94.40 SNOW BLOWER



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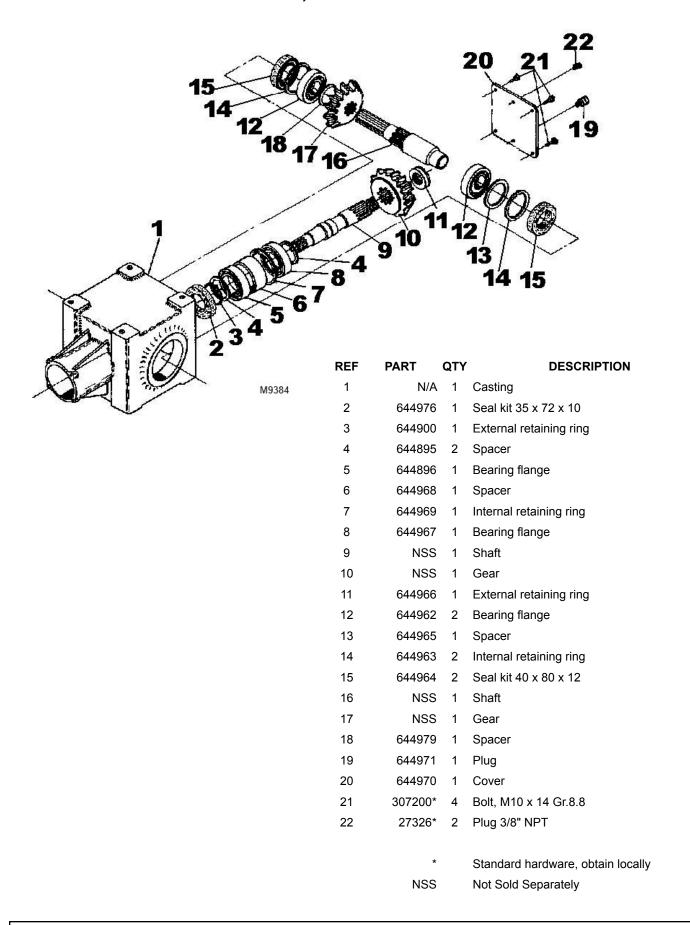
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SB84.40, SB94.40 SNOW BLOWER PARTS

REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	N/A	1	Housing	39	645014	2	Bushing 1.5 OD x 2 1/8" lg
2	645009	1	Chute assembly (including	40	645013	2	Bushing 1 1/2" lg x 3 3/8" lg
		4	adjustment tube and rod)	41	27542	3	Linchpin 7/16" PTD
3	644957	1	Adjustment rod	42	*	2	Hitch pin, 7/8" x 4-1/4" Cat. 1
4 5	644958 15031*	1 8	Adjustment tube Locknut, 1/2 NC flanged	43	645090	1	Chain #60H x 92 links, w/ connecting link
6	644960	4	Retaining plate	44	644980	1	Connecting link #60H
7	6100*	8	Bolt, 1/2 NC x 1-1/4 Gr5	45	639936	1	Spacer ring 656"ID x
8	6185*	2	Cotter pin, 1/4" x 2-1/4				1.760 x 1" ext.
9	22411	1	Lock pin, 1/4 x 2	46	639935	1	Idler sprocket 60A12
10	10378*	4	Bolt, 1/4 NC x 1 Gr5	47	645008	1	Spacer ring .656"ID x 1.151 lg x 1" ext.
11	1985*	4	Flat washer, 1/4"	48	6096*	1	Bolt, 5/16 NC x 3/4 Gr5
12	62521*	4	Locknut, 1/4 NC flanged	49	5607*	4	Carriage bolt 5/8 NC x 1-1/2" Gr5
13	645005	1	S.M.V. sign support	50	645000	1	Left adjustable skid shoe
14	24611	1	S.M.V. reflective sign	51	645002	1	Right adjustable skid shoe
15	15030*	1	Locknut, 3/8 NC flanged	52	639937	3	Flange bearing 1 1/4" hole, 4 holes
16	1004661	1	Bushing 1 1/4" OD x 1 7/8" lg	53	855*	20	Lockwasher, 1/2"
17	976*	4	Bolt, 3/8 NC x 1-1/2" Gr5	54	1093*	12	Nut, hex. 1/2" NC
18	1286*	5	Lockwasher, 5/8	55	644878	2	Nylon flat washer 11/32" hole
19	692*	1	Flat washer, 5/8	56	644869	1	Sprocket 60A32
20	902*	1	Bolt 5/8 NC x 2" Gr5	57	835*	8	Nut, hex 3/8" NC
21	645015	1	Fan	58	3379*	12	Bolt,1/2 NC x 1-1/2 Gr5
22	*	1	Key 3/8" x 3/8" x 4" lg	59	378*	1	Bolt 5/8 NC x 5" Gr5
23	644913	1	Driveline Series 50 - SB84.40	60	692*	2	Flat washer, 5/8"
23	644983	1	Driveline Series 60 - SB94.40	61	1286*	1	Lockwasher, 5/8"
24	645010	1	Driveline shield bracket	62	230*	1	Nut, hex. 5/8" NC
25	2688	1	Hairpin 3mm x 65mm lg PTD	63	1686*	4	Bolt, 3/8 NC x 3/4 Gr5
26	645004	1	Driveline shield	64	645012	4	Spacer
27	25475*	8	Bolt, 1/2 NC x 1" Gr5	65	645085	1	Driving shaft – SB84.40
28	645017	1	Driving shaft support		645086	1	Driving shaft – SB94.40
29	645084	1	Access plate	66	620979*	1	Eyebolt, 3/8" NC x 4" w/ nut
30	645016	1	Shear plate	67	230*	4	Nut, hex. 5/8" NC
31	639929	1	Oilite bushing	68	838*	8	Lockwasher, 3/8"
32	644998	1	Shear bolt 5/16 - 18 NC x 1-1/4 GR5	69	645096	2	Pin, 1-1/8" x 6 1/4" Cat. 2
33	33000	1	Lock pin, 3/8" x 2 1/2"	70	S071031BK	1	Pin, 3/4" x 5 7/16" Cat. 1 (SB84.40 only)
34	1972	2	Grease fitting 1/4" NF	71	644981	1	Gearbox
35	645006	1	Parking stand	72	644999	1	Auger – SB84.40
36	639938	1	Spacer plate	72	645003	1	Auger – SB94.40
37	4528*	1	Bolt, 5/16 NC x 1-3/4" Gr5				
38	FA220*	2	Nut, nylon insert 5/16 NC		*		Standard hardware, obtain locally

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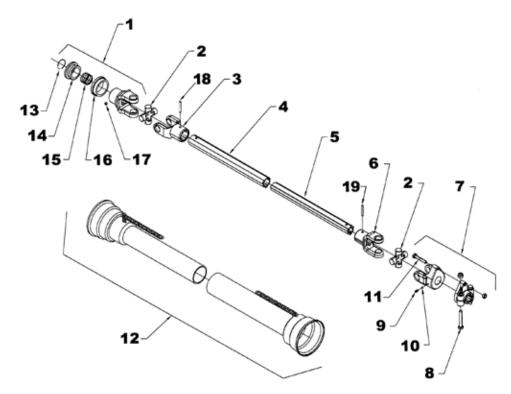
SB84.40, SB94.40 GEARBOX



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DRIVELINES



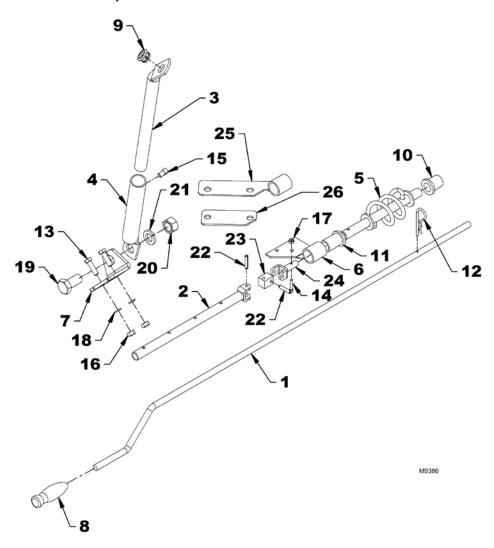
SB84.40 SB94.40

REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
	644913	1	Driveline Series 50 - SB84.40		644983	1	Driveline Series 60 - SB94.40
1	1028775	1	Quick disconnect yoke assembly - slide collar	1	645097	1	Quick disconnect yoke assembly - slide collar
2	36990	2	Universal joint kit	2	644984	2	Universal joint kit
3	NSS	1	Outer yoke	3	NSS	1	Outer yoke
4	NSS	1	Outer tube	4	NSS	1	Outer tube
5	NSS	1	Inner tube	5	NSS	1	Inner tube
6	NSS	1	Inner yoke	6	NSS	1	Inner yoke
7	645089	1	Yoke and hub assembly	7	644985	1	Yoke and hub assembly
8	*	2	Bolt and nut	8	*	2	Bolt and nut
9	*	1	Grease fitting	9	*	1	Grease fitting
10	NSS	23	Ball	10	NSS	24	Ball
11	644972	1	Shear bolt and nut, M10 x 1.5 x 55 mm Gr. 8.8 Plated	11	644972	1	Shear bolt and nut, M10 x 1.5 x 55 mm Gr. 8.8 Plated
12	1028787	1	Shields with safety chain	12	644988	1	Shields with safety chain
13	NSS	1	Outer circlip	13	NSS	1	Outer circlip
14	NSS	1	Sliding sleeve collar	14	NSS	1	Sliding sleeve collar
15	NSS	1	Spring	15	NSS	1	Spring
16	NSS	1	Fixed sleeve	16	NSS	1	Fixed sleeve
17	NSS	3	Ball 1/2"	17	NSS	3	Ball 1/2"
18	*	1	Roll pin for outer tube	18	*	1	Roll pin for outer tube
19	*	1	Roll pin for inner tube	19	*	1	Roll pin for inner tube
	* NSS		Standard hardware, obtain locally Not Sold Separately		* NSS		Standard hardware, obtain locally Not Sold Separately

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SB84.40, SB94.40 MANUAL CHUTE ROTATOR

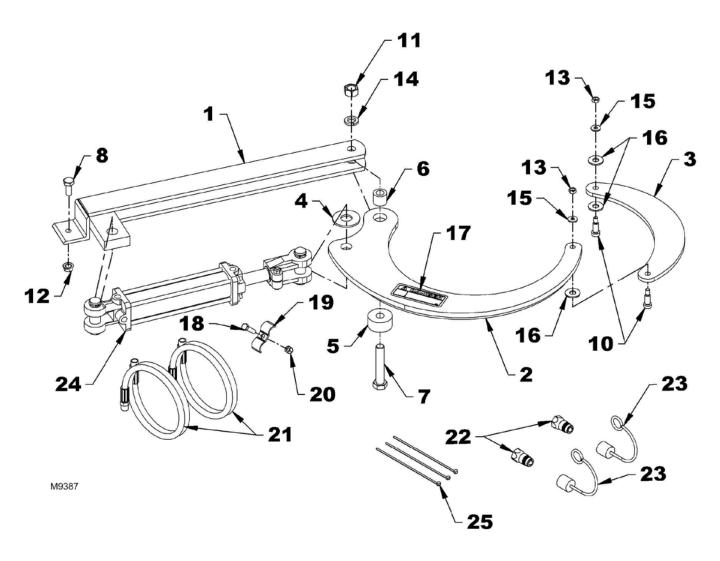


REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	644997	1	Handle	15	*	1	Square head setscrew 3/8" x 1/2" PTD
2	644915	1	Rotation tube	10	025*	_	
3	644922	1	Handle support	16	835*		Nut, hex. 3/8 NC
4	644923	1	Handle support bracket	17	*	1	Locknut, 10-24 nylon insert
5	644975	1	Rotation worm	18	838*	2	Lockwasher, 3/8
3	044973	'		19	4616*	1	Bolt, 3/4 NC x 1-1/2" Gr5
6	644974	1	Worm support bracket for SB1148-SB1154 & SB1164	20	1450*	1	Nut, hex. 3/4 NC
7	644925	1	Bracket	21	2522*	1	Lockwasher, 3/4
8	644920	1	Plastic handle	22	21020*	2	Roll pin 1/4" x 1-1/4"
9	644924	1	Plastic grommet	23	644917	1	Universal block
10	644921	1	Plastic bushing 1 5/16"	24	644916	1	Rotation yoke
11	644973	1	Plastic bushing 1 11/16"	25	645011	1	Worm support bracket
12	18270	1	Hairpin 4mm x 80mm	26	645007	1	Spacer
13	12169*	2	Bolt, 3/8 NC x 1-1/4 Gr5				
14	*	1	Socket head capscrew 10-24 x 1"		*		Standard hardware, obtain locally

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SB84.40, SB94.40 HYDRAULIC CHUTE ROTATOR

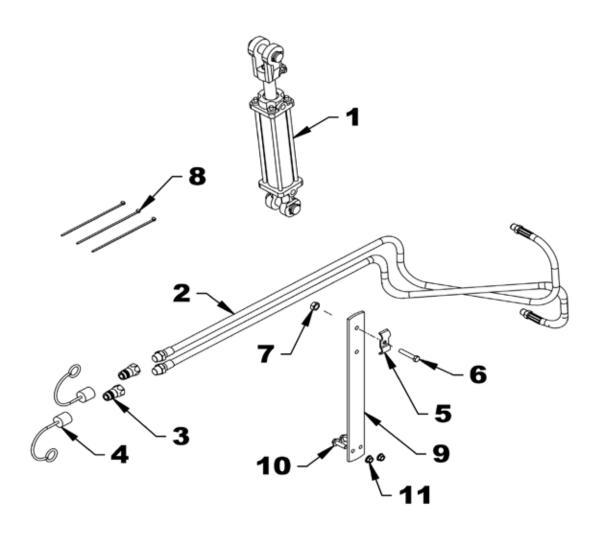


REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	644991	1	Rotation bracket	16	3598*	3	Flat washer, 1/2 SAE
2	644989	1	Bell crank	17	644995	1	Decal "Danger"
3	644990	1	Push arm	18	976*	1	Bolt 3/8 NC x 1-1/2 Gr5
4	832*	1	Flat washer, 1" Std	19	644977	1	Hose clamp
5	644993	1	Spacer ring	20	*	1	Nut, 3/8 NC nylon insert
6	644992		Pivot bushing	21	645091	2	Hose, 3/8 x 92" x 3/8
7	2376*	1	Bolt, 3/4 NC x 5" Gr5			_	NPT M x 1/2 NPT M
8	6100*	1	Bolt, 1/2 NC x 1-1/4 Gr5	22	66511	2	Quick coupler, 1/2 NPT male
10	644996	2	Shoulder screw 1/2" x 1" x 3/8"NC	23	5052	2	Dust cap, for male quick coupler
11	1450*	1	Nut, hex 3/4 NC	24	645093	1	Cylinder, 2" X 8" w/ pins
		1	•	NS	645094	1	Seal kit
12	15031*	1	Locknut, 1/2 NC flanged	25	88*	3	Tie wraps 8" x 4.8 mm
13	*	2	Stover nut, 3/8 NC	20	00	3	The wraps of X 4.0 min
14	2522*	1	Lockwasher, 3/4"		*		Otro de alle colonia de la col
15	565*	2	Flat washer, 3/8"		•		Standard hardware, obtain locally

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SB84.40, SB94.40 HYDRAULIC CHUTE DEFLECTOR



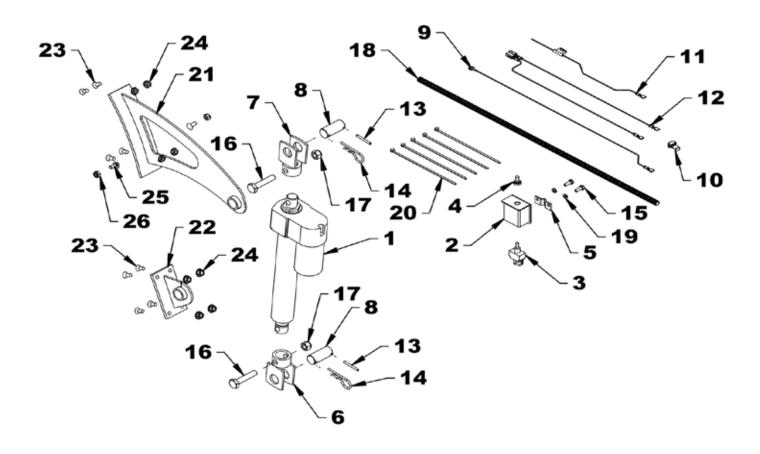
REF	PART	QTY	DESCRIPTION
1	645093	1	Cylinder 2" X 8" inc. pins
	645094	1	Seal kit
2	645092	2	Hose 3/8" x 108" lg 3/8" NPT RM x 1/2" NPT RM
3	66511	2	Female quick coupler 1/2" NPT male
4	5052	2	Dust cap
5	644977	1	Hose clamp
6	976*	1	Bolt, 3/8 NC x 1-1/2" Gr5
7	*	1	Nut, 3/8 NC nylon insert
8	88*	3	Tie wraps 8" x 4.8 mm black
9	645098	1	Hose support
10	1033958*	2	Bolt, 3/8 NC x 1-1/4 Gr 5 Serrated Flange
11	W70069*	2	Nut, 3/8 NC Serrated Flange

Standard hardware, obtain locally

40 Parts MAN1369 (10/31/2023)

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SB84.40, SB94.40 ELECTRIC CHUTE DEFLECTOR



REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	644941	1	Actuator	14	18270	2	Hairpin 4mm x 80mm, PTD
2	644942	1	Switchbox	15	2457*	2	Bolt 1/4 NC x 3/4 Gr5
3	644943	1	Switch	16	639*	2	Bolt 1/2 NC x 2-1/2 Gr5
4	644944	1	Rubber cap	17	*	2	Nut, 1/2 NC nylon insert
5	644945	1	Switchbox clamp	18	644953	1	Loom, 3/8" x 420"
6	644946	1	Clevis – rod	19	1985*	2	Lockwasher, 1/4"
7	644947	1	Clevis – base	20	88*	5	Nylon tie wrap 8" lg x 4 mm
8	1631	2	Pin 1"	21	644954	1	Deflector bracket
9	644948	1	Ground wire 72" (black)	22	644955	1	Base bracket
10	644949	1	Tap connector	23	78285	8	Allen setscrew, flat head
11	644950	1	Fuse wire72" (red)				5/16"NC x 3/4"
12	644952	1	Actuator wire assembly	24	W72259*	8	Nut, 5/16 NC Serrated Flange
13	*	2	Spring pin 3/16" x 1 3/4", black	25	16148*	2	Carriage bolt, 5/16 NC x 3/4 Gr5
. 3		-		26	*	2	Nut, 5/16 NC nylon insert

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BOLT TORQUE CHART

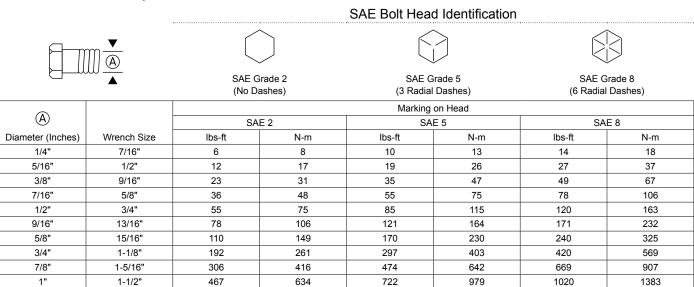
Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application.

Fasteners must always be replaced with the same grade as specified in the manual parts list.

Always use the proper tool for tightening hardware: SAE for SAE hardware and Metric for metric hardware. Make sure fastener threads are clean and you start thread engagement properly.

All torque values are given to specifications used on hardware defined by SAE J1701 MAR 99 & J1701M JUL 96.

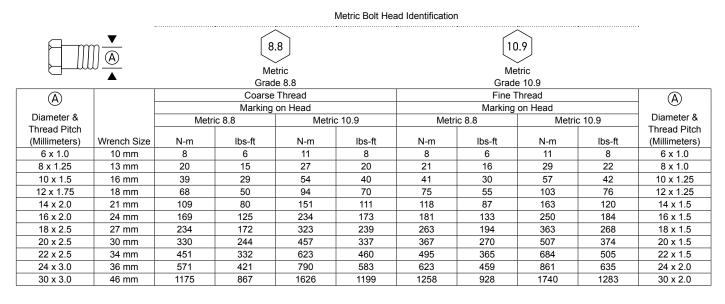
SAE SERIES TORQUE CHART



TYPICAL WASHER INSTALLATIONS



METRIC SERIES TORQUE CHART



42 Appendix

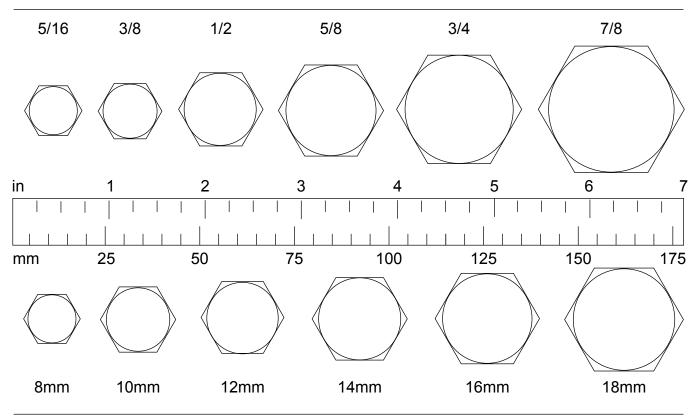
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BOLT SIZE CHART

NOTICE: Chart shows bolt thread sizes and corresponding head (wrench) sizes for standard SAE and metric bolts.

SAE BOLT THREAD SIZES



METRIC BOLT THREAD SIZES

ABBREVIATIONS

AG	Agricu	ulture	HT
ASABE	American Society of Agricultu		JIC Joint Inc
	Biological Engineers (formerly A	,	LH
	rican Society of Agricultural Engir		LT
ATF	Automatic Transmission	Fluid	m
BSPP	British Standard Pipe Pa	ırallel	mm
BSPTM	. British Standard Pipe Tapered	Male	M
CV	Constant Ve	locity	MPa
CCW	Counter-Clock	wise	N
CW		wise	NC
F	Fe	male	NF
FT	Full Th	nread	NPSM Na
GA		auge	NPT
GR (5, etc.)	Grade (5,	etc.)	NPT SWF Nation
HHCS	Hex Head Cap S	Screw	

I	ORDIVI
C Joint Industry Council 37° Degree Flare	Р
H Left Hand	PBY
Т	psi
ı Meter	PTO
nm Millimeter	QD
I	RH
IPa Mega Pascal	ROPS
Newton	RPM
C	RT
F National Fine	SAE
PSM National Pipe Straight Mechanical	UNC
PT National Pipe Tapered	UNF
PT SWF National Pipe Tapered Swivel Female	UNS

MAN1369 (10/31/2023) Appendix 43

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FITTING TORQUE CHART

Always tighten fittings to these values unless a different torque value is listed for a specific service procedure.

Make sure fastener threads are clean and threads are engaged properly.

All torque values are adopted from SAE J514 and SAE J1453.

Size	SAE (JIC) 37° Flare Thread Size	O-Ring Style Straight Thread Size	Seal-Lok Thread (Face Seal)
2	5/16 - 24	5/16 - 24	
3	3/8 - 24	3/8 - 24	
4	7/16 - 20	7/16 - 20	9/16 - 18
5	1/2 - 20	1/2 - 20	
6	9/16 - 18	9/16 - 18	11/16 - 16
8	3/4 - 16	3/4 - 16	13/16 - 16
10	7/8 - 14	7/8 - 14	1 - 14
12	1-1/16 - 12	1-1/16 - 12	1-3/16 - 12
14	1-3/16 - 12	1-3/16 - 12	
16	1-5/16 - 12	1-5/16 - 12	1-7/16 - 12
20	1-5/8 - 12	1-5/8 - 12	1-11/16 - 12
24	1-7/8 - 12	1-7/8 - 12	2 - 12
32	2-1/2 - 12	2-1/2 - 12	

	TORQUE						
SAE Dash	SAE 37	7° Flare	O-Ring Straight Thread		Seal-Lok		
Size	LbsFt.	N-m	LbsFt.	N-m	LbsFt.	N-m	
2	4	5	4	5			
3	8	11	9	12			
4	12	16	16	22	18	25	
5	15	20	22	30			
6	18	25	35	48	27	37	
8	37	50	60	82	40	54	
10	48	65	105	143	63	86	
12	74	100	140	190	92	125	
14	88	120	184	250			
16	100	135	221	300	122	165	
20	133	180	258	350	147	200	
24	166	225	317	430	166	225	
32	236	320					

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PART NO. MAN1369

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