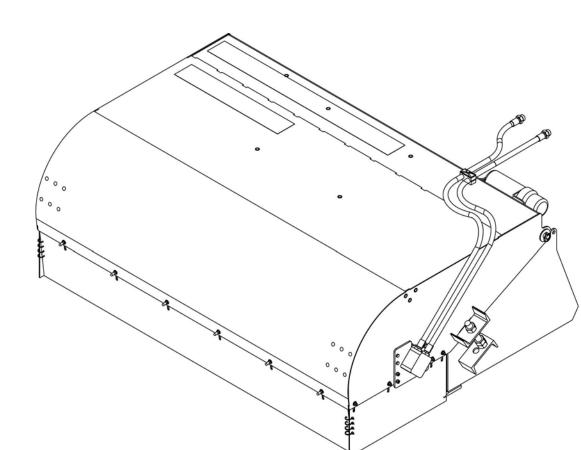
ALITEC[™]

PICK-UP BROOM PB600-2, PB720-2







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 Check Lists 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 Check List items have been completed. Dealers can register all Woods product at dealer.WoodsEquipment.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 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 location)

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.

BMP® CENTRAL FABRICATORS® GANNON® GILL® WAIN-ROY® WOODS®



Woods Equipment Company

2 Introduction

Gen'l (Rev. 12/5/2011)

ALITEC[™]

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ILEA EL INSTRUCTIVO!

Si no lee Ingles, pida ayuda a alguien que si lo lea para que le traduzca las medidas de seguridad.



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.

GENERAL INFORMATION

The purpose of this manual is to assist you in operating and maintaining your pick-up broom. Read it carefully. The information and instructions 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 pick-up broom may vary slightly in detail. We reserve the right to redesign and change the pick-up broom as may be necessary, without notification.

Throughout this manual, references are made to right and left directions. These are determined by standing behind the equipment facing the direction of forward travel.

SPECIFICATIONS

PICK-UP BROOMS

| | PB600-2 | PB720-2 |
|--------------------------------|-------------|-------------|
| Overall length | 57 inches | 57 inches |
| Overall width | 66.6 inches | 78.6 inches |
| Flow requirements | 12 - 25 gpm | 12 - 25 gpm |
| Maximum hydraulic oil pressure | 3000 psi | 3000 psi |
| Operating weight | 817 lbs | 925 lbs |
| Single gutter broom weight | 75 lbs | 75 lbs |



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.

INSTALLATION

■ Hydraulics must be connected as instructed in this manual. Do not substitute parts, modify, or connect in any other way.

■ After connecting hoses, check that all control lever positions function as instructed in the Operator's Manual. Do not put into service until control lever and equipment movements are correct.

TRAINING

■ 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 instructed in and be 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. CON-TACT 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 torque chart specifications unless instructed otherwise in this manual.

■ Counterweight ballast may be required for machine stability. Check your power unit manual or contact your dealer.

■ 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.

■ After connecting hoses, check that all control lever positions function as instructed in the Operator's Manual. Do not put into service until control lever and equipment movements are correct.

■ Protective hose sleeves must cover all hydraulic hoses within 20 inches of the operator and be secured onto metal hose fittings. Replace hoses or sleeves if damaged or if protective sleeve cannot be properly positioned or secured.

■ 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.

(Safety Rules continued on next page)

SAFETY RULES ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



(Safety Rules continued from previous page)

■ 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.

■ Be sure attachment is properly secured, adjusted, and in good operating condition. Coupler lockpins must be fully extended and properly engaged into attachment retaining slots.

■ Power unit must be equipped with ROPS and seat belt/operator restraint. Keep seat belt/operator restraint securely fastened/engaged. Falling off power unit can result in death from being run over or crushed. Keep ROPS systems in place at all times.

■ 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.

■ Inspect and clear area of stones, branches, or other hard objects that might be thrown, causing injury or damage.

OPERATION

■ Only engage power when equipment is at ground operating level. Always disengage power when equipment is raised off the ground.

■ Improper operation can cause the machine to tip or roll over and cause injury or death.

• Keep power unit lift arms and attachment as low as possible.

• Do not travel or turn with power unit lift arms and attachment raised.

- Turn only on level ground.
- Go up and down slopes, not across them.
- Keep the heavy end of the machine uphill.
- · Do not overload the machine.

■ Never use attachment to carry loads that exceed the rated operating capacity or other specifications of the power unit. Check your power unit manual or see your dealer for rated operating capacity. Exceeding this capacity can cause machine to tip, roll over, or present other hazards that can cause injury or death.

■ Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment. ■ Keep brush away from intense heat or flame. Brush material can ignite and burn.

■ Contact with high voltage, overhead power lines, underground cables, gas lines, and other hazards can cause serious injury or death from electrocution, explosion, or fire.

Keep bystanders away from equipment.

Never direct discharge toward people, animals, or property.

■ 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.

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

Do not allow riders. Do not lift or carry anybody on the power unit or attachments.

■ Always sit in power unit seat when operating controls or starting engine. Securely fasten seat belt/operator restraint, place transmission in park or neutral, engage brake and ensure all other controls are disengaged before starting power unit engine.

■ Look down and to the rear and make sure area is clear before operating in reverse.

■ Use extreme care when working close to fences, ditches, other obstructions, or on hillsides.

Do not operate or transport on steep slopes.

■ Do not stop, start, or change directions suddenly on slopes.

■ Use extreme care and reduce ground speed on slopes and rough terrain.

Watch for hidden hazards on the terrain during operation.

■ Stop power unit and implement immediately upon striking an obstruction. Dismount power unit, using proper procedure. Inspect and repair any damage before resuming operation.

Before leaving operator's seat, lower lift arms and put attachment on the ground. Engage brake, stop engine, remove key, and remove seat belt. **SAFETY RULES**

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



MAINTENANCE

■ Your dealer can supply original equipment hydraulic accessories and repair parts. Substitute parts may not meet original equipment specifications and may be dangerous.

■ To prevent contamination during maintenance and storage, clean and then cover hose ends, fittings, and hydraulic ports with tape.

■ Do not operate the pump with pressure over 3000 psi. Higher pressures can rupture hydraulic components and can cause personal injury.

Adjustment of system relief pressure must be done by a qualified, experienced dealer. Incorrect adjustment can result in system failures and serious personal injury.

■ 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.

■ Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.

■ Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.

■ 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.

■ Be sure attachment is properly secured, adjusted, and in good operating condition. Coupler lockpins must be fully extended and properly engaged into attachment retaining slots.

■ Never perform service or maintenance with engine running.

■ Keep all persons away from operator control area while performing adjustments, service, or maintenance.

■ Tighten all bolts, nuts, and screws to 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 all system pressure is relieved. Lower unit to ground, stop engine, and operate all hydraulic control levers.

STORAGE

■ Follow manual instructions for storage.

■ Keep children and bystanders away from storage area.

Safety 7



SAFETY & INSTRUCTIONAL DECALS ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! **Replace Immediately If Damaged!**



2 - PN 1015363

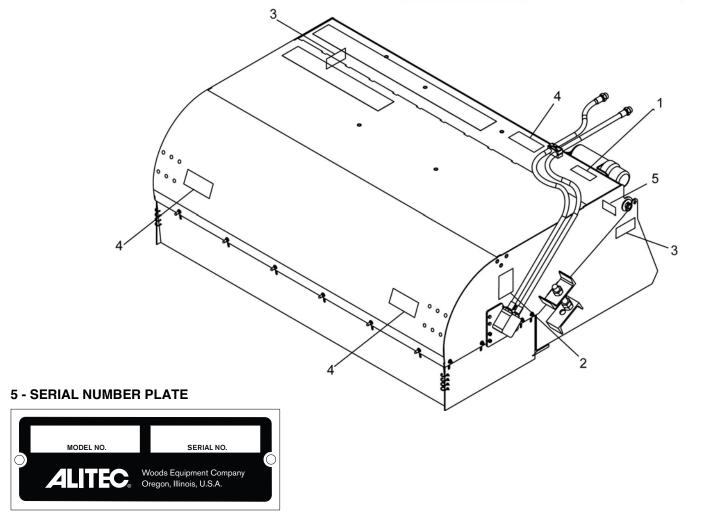


Relieve pressure before disconnecting lines. DO NOT use hands to check for leaks. Consult physician immediatly if skin penetration occurs.



4 - PN 1015362





8 Safety

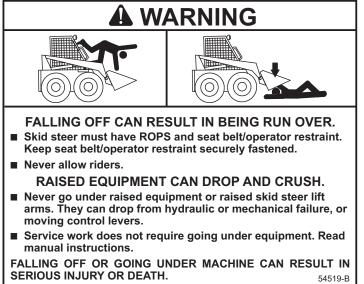
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SAFETY & INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Replace Immediately If Damaged!

8 - PN 54519



BE CAREFUL!

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.

Replacement safety decals can be ordered free from your Woods 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.

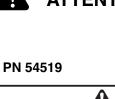
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WARNING

TO AVOID SERIOUS INJURY OR DEATH.

- Read Operator's Manual and Skid Steer Manual before operating, servicing or repairing attachment. Follow all safety rules and instructions. (Manuals are available from dealer or, in the United States and Canada, call 1-800-319-6637.)
- Only operate from Skid Steer seat with seat belt/operator restraint securely fastened.
- Before leaving operator's seat: follow Skid Steer Manual instructions, lower lift arms and attachment to ground, stop engine, remove key, engage brake, remove seat belt/operator restraint.
- Allow no children or untrained persons to operate equipment.

FAILURE TO FOLLOW THESE **INSTRUCTIONS CAN RESULT IN** SERIOUS INJURY OR DEATH. 54518-A



OPERATION

The operator is responsible for the safe operation of this equipment. Operators must be instructed in and be capable of the safe operation of the equipment, its attachments and all controls. Do not allow anyone to operate this equipment without proper instructions.

The pick-up broom is designed for removing dust, dirt and fine debris from a flat, level surface. Debris is swept into the bucket and can then be carried to a suitable location for disposal. Skid steers must be equipped with an auxiliary hydraulic system capable of supplying continuous flow for hydraulic motor operation.



■ 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.

■ Never allow children or untrained persons to operate equipment.

■ Power unit must be equipped with ROPS and seat belt/operator restraint. Keep seat belt/operator restraint securely fastened/engaged. Falling off power unit can result in death from being run over or crushed. Keep ROPS systems in place at all times.

■ Before leaving operator's seat, lower lift arms and put attachment on the ground. Engage brake, stop engine, remove key, and remove seat belt.



■ 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.

ATTACH BROOM TO SKID STEER

Read the skid steer operator's manual connecting and removing instructions.

Position hydraulic hoses so they will not be pinched when connecting the pick-up broom.

The skid steer coupler handles should be in the unlocked position and the lock pins retracted.

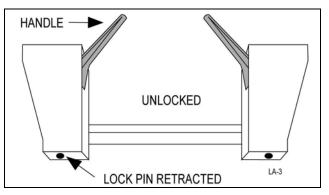


Figure 1. Skid Steer Coupler Handles - Unlocked

Move to the skid steer operator seat and start engine.

Lower skid steer lift arms to their lowest position.

Carefully move and align the skid steer to the pick-up broom. The top of the skid steer coupler must slide into the broom flange, Figure 3.

Roll the skid steer coupler into the pick-up broom so the coupler handles can be engaged.

Shut off the engine, set brake, and remove key. Dismount the skid steer.

Move the skid steer coupler handles to the locked position, see Figure 2. The lock pins must be completely extended and secured into the slots provided on the pick-up broom, Figure 3.

Connect hydraulic hoses to skid steer auxiliary quick couplers.

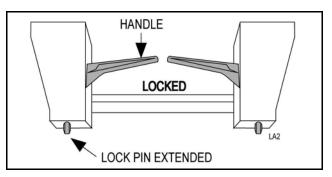


Figure 2. Skid Steer Coupler Handles - Locked

10 Operation

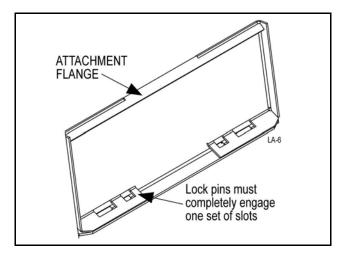


Figure 3. Back of Attachment - Slot Locations

ADJUSTMENT



■ Before leaving operator's seat, lower lift arms and put attachment on the ground. Engage brake, stop engine, remove key, and remove seat belt.

Check Brush Pattern

A properly adjusted brush offers the best sweeping performance. To check the brush pattern, move the pick-up broom to a dusty, flat surface. Set the skid steer parking brake and leave the engine running. Start the broom at a low speed; then, lower it so the bristle tips touch the ground. Run the broom in a stationary position for ten seconds.

Raise the broom and back away. Switch off the engine and remove the key. The brush pattern left in the dust should be two to four inches wide, running the length of the brush. See Figure 4.

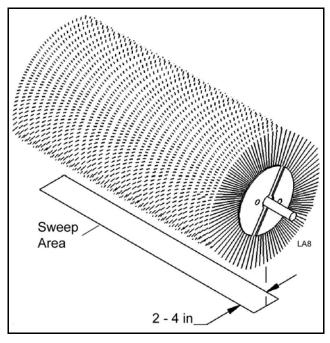


Figure 4. Brush Pattern

If the brush pattern is not two to four inches wide, adjust brush pattern accordingly.

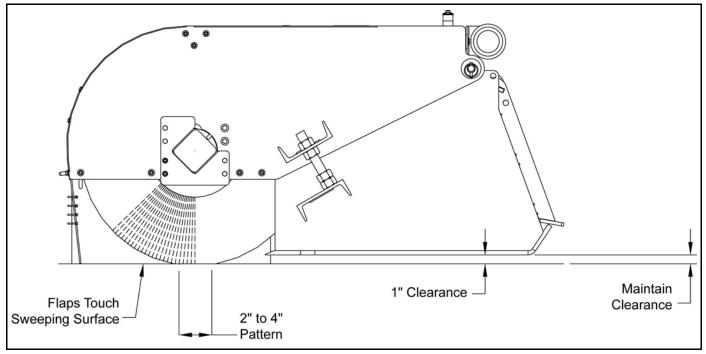


Figure 5. Adjustment Bolt and Brush Pattern

Adjust Brush Height

- 1. Loosen the jam nuts above and below the plate on both sides of the sweeper hood. See Figure 5.
- 2. Turn adjustment bolt clockwise to make a wider pattern, or counterclockwise to make a narrower pattern.
- 3. Tighten jam nuts and check the new brush pattern.

NOTE: To extend brush life make sure bolts on both sides are adjusted evenly.

Adjust Flaps and Plate Shield

Be sure to adjust the metal plate shield and rubber flaps. The flaps should be all the way down when brush sections are new. As sections wear, raise the flaps to avoid dragging on the ground.

OPERATION

■ When improperly operated, power unit can roll over or upset. Use of rollover protective structure (ROPS) with seat belt securely fastened will reduce the possibility of injury or death if rollover or upset occurs.

■ Look down and to the rear and make sure area is clear before operating in reverse.

■ Never direct discharge toward people, animals, or property.

■ Only engage power when equipment is at ground operating level. Always disengage power when equipment is raised off the ground.

Read and understand the pick-up broom and skid steer operator's manuals before operating the pick-up broom. Failure to do so may result in death, serious personal injury or property damage.

Never raise the broom more than a few inches off the ground when traveling from job site to job site.

Carry the broom low to the ground so that the operator has good visibility and stability. Avoid any sudden movements.

Sweeping

NOTICE

■ Maximum oil flow is 25 gpm (94.8 liters/min) at 3000 psi (206.8 bars). See the skid steer manual for oil flow specifications.

- **1.** Start the skid steer at idle speed and raise the brush head.
- 2. Use low engine speeds to save wear and tear on the sweeper and to prevent dust from billowing up during sweeping.

NOTE: Do not engage the brush at high engine speeds. This damages the sweeper and motor.

- 3. Engage the brush head and lower it to the ground.
- **4.** Increase skid steer engine rpm to sweeping speed. Travel forward at 5 mph or less.

NOTICE

■ Shifting brush rotation from forward to reverse while the brush is rotating damages the sweeper and motor.

5. When sweeping forward, rotate the brush so debris goes over the brush and into the bucket (Figure 7).

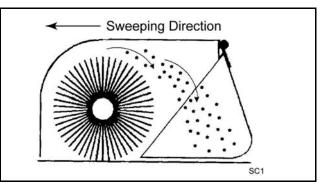


Figure 6. Forward Sweeping Motion

6. When sweeping in reverse, rotate the brush so debris is pushed into the bucket, similar to sweeping into a dustpan (Figure 8).

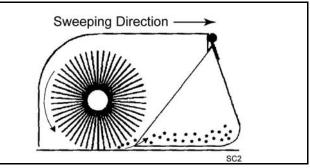


Figure 7. Reverse Sweeping Motion

7. If streaking occurs, install plastic ties in flap holes to hold the front and sides together.

Operating tips

Before Each Use

Perform daily maintenance as indicated in the Maintenance Schedule.

12 Operation

Run the sweeper with the skid steer at a slow idle. Check for hydraulic leaks or other problems and make corrections, if necessary, before using the sweeper.

During Use

Carry the sweeper low to the ground so that the operator has good visibility and stability. Avoid any sudden movements. Avoid excessive downward pressure on the brush sections to prevent excessive wear. A two to four inch wide pattern for the broom is sufficient for most applications. Ensure that the adjustment bolts are equally adjusted in order to prevent an uneven wear pattern.

Directing Debris

Observe wind direction. Sweeping with the wind makes sweeping more effective and helps keep debris off the operator.

Dirt and Gravel

To keep dust at a minimum, plan your sweeping for days when it is overcast and humid, or after it has rained. Also, sweep so the wind blows at your back or in the direction the brush head is angled.

Low brush speeds and moderate ground speeds work best for cleaning debris from hard surfaces. Brush speeds that are too fast tend to raise dust because of the aggressive sweeper action.

To sweep gravel, use just enough brush speed to roll gravel, not throw it.

Heavy Debris

For two inches or more of heavy debris, medium/high and ground speeds of less than five mph are recommended.

Sweep path less than the full width of the broom.

Increase engine speed if debris becomes very heavy.

Transporting

\Lambda WARNING

■ When improperly operated, power unit can roll over or upset. Use of rollover protective structure (ROPS) with seat belt securely fastened will reduce the possibility of injury or death if rollover or upset occurs.

Always follow safety rules, carry low to ground and travel slowly.

Only raise a load when dumping.

Dumping Loads

DANGER

■ AVOID INJURY OR DEATH FROM POWER LINES:

- Stay away from power lines.
- Electrocution can occur without direct contact.
- Check clearances before raising implement.
- · Do not leave the operator's seat if any part of
- the tractor or implement contacts electric lines.

Transport to dumping location before raising. Only dump load while on a firm level surface.

Slowly raise load to required dumping height. Rotate pick-up broom forward to empty the bucket.



Figure 8. Dump Position

GUTTER BRUSH (OPTIONAL)

The gutter brush is for sweeping forward only.

When sweeping next to curbs or walls with a gutter brush, only the bristle tips should touch the vertical surface.

When not using the gutter brush for a short period, raise it 1-2 inches (25-51mm) off the ground with the tension chain. During extended periods of non-use, unhook hydraulic hoses from the gutter brush motor, remove the gutter brush assembly and connect hydraulic hoses to run only the main.

MAN0661 (8/10/2007)

NOTICE

■ To prevent contaminants from damaging the hydraulic system, cap hoses and couplers when the gutter brush is not in use.

Adjust Gutter Brush Height

When the gutter brush height is properly adjusted, bristles contact the ground as shown in Figure 9.

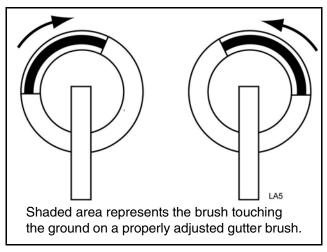


Figure 9. Contact Area

To adjust the gutter brush height:

- **1.** Lower the brush to the ground.
- **2.** Loosen the bolts holding the gutter brush motor mounting plate.
- 3. Turn the motor mounting plate to the right or left.
- **4.** Adjust the tension chain so it holds the gutter brush in place.
- **5.** Tighten the bolts holding the motor mounting plate and check the adjusted brush.

Adjust Gutter Brush Swing

A properly adjusted gutter brush extends the main brush's sweeping path, leaving no streaks between the two paths. For this to happen, the center of the gutter brush must line up with the outside edge of the sweeper.

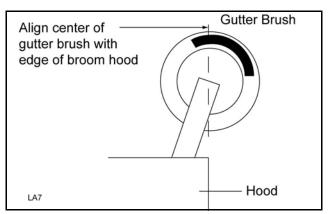


Figure 10. Gutter Brush and Hood Alignment

To adjust the gutter brush swing:

- 1. Loosen nuts.
- **2.** Adjust the screw, turning it in for less swing and turning it out for more swing.
- 3. Tighten nuts and check adjustment.

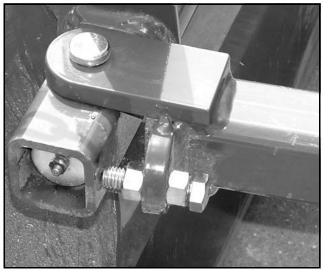


Figure 11. Adjust Gutter Brush Swing

Replace the Gutter Brush

- **1.** Remove four screws to detach the worn gutter brush for the gutter brush plate.
- **2.** Attach a new gutter brush using the four screws previously removed.
- **3.** Adjust according to Adjust Gutter Brush Height, page 14.

REMOVE BROOM FROM SKID STEER

WARNING

■ Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.

■ Do not disconnect hydraulic lines until all system pressure is relieved. Lower unit to ground, stop engine, and operate all hydraulic control levers.

On a hard level surface, lower attachment to the ground.

Shut off engine, set brake, remove key, remove seat belt, and release operator restraint before leaving the skid steer operator's seat.

Disconnect hydraulic hoses from quick couplers. Install dust plugs and couple hoses together for storage.

Move skid steer coupler handles to the unlocked position, Figure 12. Lock pins must be disengaged from attachment retaining slots.

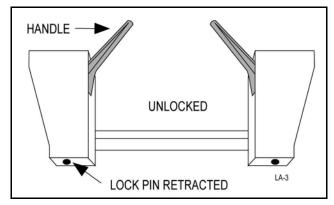


Figure 12. Skid Steer Coupler Handles - Unlocked

Move to the skid steer operator seat, fasten seat belt, engage operator restraint, and start engine.

Release brake and roll skid steer coupler until it is disengaged from the attachment. The attachment should be placed in storage position.

STORAGE



■ Keep brush away from intense heat or flame. Brush material can ignite and burn. ■ Keep children and bystanders away from storage area.

NOTICE

■ Do not store polypropylene brushes in direct sunlight. The material can deteriorate and crumble before the bristles are worn out.

■ Do not store the broom with weight on the brushes. Weight will deform them, destroying the sweeping effectiveness. To avoid this problem, place broom on blocks.

Inspect the broom thoroughly and prepare for storage. Repair or replace any damaged components.

Remove the broom as described in Remove Broom from Skid Steer, page 15. Place on blocks to prevent brush damage. Clean and cover hose ends, fittings, and hydraulic ports.

PRE-OPERATION CHECK LIST

(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 skid steer.
- ____ Check all lubrication points and grease as instructed.
- ____ Follow procedures in Maintenance, page 16 daily.
- ____ Do not allow riders.
- ____ Check and keep all bystanders away from equipment working area.
- Check that all hydraulic hoses and fittings are in good condition and not leaking before starting skid steer. Check that hoses are not twisted, bent sharply, kinked, frayed or pulled tight. Replace any damaged hoses immediately.
- Make sure skid steer ROPS and seat belt are in good condition. Keep seat belt securely fastened during operation.



Operation 15

OWNER SERVICE

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

Regular preventive maintenance and immediate repair of broken or worn parts will insure maximum efficiency and long life.



■ 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.

• Read Operator's Manual for service instructions or have service performed by a qualified dealer.

■ Before leaving operator's seat, lower lift arms and put attachment on the ground. Engage brake, stop engine, remove key, and remove seat belt.

■ Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.

■ Never perform service or maintenance with engine running.

■ Make sure shields and guards are properly installed and in good condition. Replace if damaged.

■ 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. CON-TACT A PHYSICIAN IMMEDIATELY IF FLUID ENTERS SKIN OR EYES. DO NOT DELAY.

■ 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.

A WARNING

■ Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.

■ Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)

■ 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.

Maintenance

Inspect for leaks and correct as necessary.

Run engine at a slow idle, checking for leaks.

Operate broom to ensure it is working properly.

Check the fluid level in skid steer reservoir and add fluid as required.

| Procedure | Daily | 50 Hours |
|---------------------------------------|-------|-------------|
| Level brush | ~ | |
| Check brush pattern | ~ | |
| Clean air filter, skid steer | ~ | |
| Hydraulic fittings and hoses, tighten | | ~ |
| Grease fittings | ~ | |
| Check hydraulic fluid level | ~ | |
| Tighten hardware | | ~ |

16 Owner Service

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 large debris such as clumps of dirt, grass, crop residue, etc. from machine.
- Remove the remainder using a low-pressure water spray.

- 1. 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.



TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | SOLUTION | | |
|-------------------------------------|---|--|--|--|
| Motor for broom will not operate. | Auxiliary hydraulics control on prime mover is activated in the wrong position. | Verify controls: See prime mover owner's manual. | | |
| | Hoses improperly connected to prime mover. | Connect hoses correctly to prime mover. | | |
| | Hoses on prime mover are obstructed. | Clear obstruction on prime mover. | | |
| | Hoses on broom are obstructed. | Clear obstruction on broom. | | |
| | The motor has failed. | Replace the motor. | | |
| Sluggish broom operation. | Insufficient oil flow from the prime mover. | Increase engine RPM. | | |
| | One or more seals have failed in the motor. | Replace the seals or motor. | | |
| | Hydraulic filter on prime mover is dirty. | Replace filter. | | |
| Motor runs but broom does not. | Motor shaft has a sheared key. | Replace key. | | |
| Oil leaks from motor. | One or more seals have failed in the motor. | Replace the seals or motor. | | |
| | Seals on the fittings are damaged. | Replace seals or fittings. | | |
| | Fittings are loose or damaged. | Tighten or replace fittings. | | |
| | Hydraulic hoses are loose or damaged. | Tighten or replace hoses. | | |
| Brush rotates in wrong direction. | Hoses installed incorrectly. | Switch hose connections. | | |
| Brush slows or stops when sweeping. | Brush pattern too wide. | Adjust brush pattern. | | |
| | Travel speed too fast. | Reduce travel speed. | | |
| | Trying to sweep too much material at once. | Reduce amount of material being swept; make more passes. | | |
| | Hydraulic motor is failing. | Replace Motor. | | |
| Brush wears very quickly. | Brush pattern too wide. | Adjust brush pattern. | | |

TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|--------------------------------------|---|---|
| Excessive hydraulic oil temperature. | Low hydraulic oil level on the prime mover. | Add hydraulic fluid. |
| | Hydraulic hoses are obstructed. | Clear obstructions in hoses. |
| | Hydraulic oil and/or filter on prime mover are dirty. | Replace hydraulic oil and/or filter on prime mover. |
| | Quick couplers are not properly seated. | Reconnect quick couplers properly. |
| | Brush pattern too wide. | Adjust brush pattern. See "Check Brush Pattern" on page 11 |
| | Travel speed too fast. | Reduce travel speed. |
| | Trying to sweep too much material at once. | Reduce the amount of material being swept. Make more passes. |
| | Hydraulic motor is failing. | Replace motor. |
| Hydraulic quick coupler leaks. | Quick coupler poppet is unseated or damaged. | Reconnect or replace the quick couplers. |

DEALER SERVICE

The information in this section is written for dealer service personnel. The repair described here requires special skills and tools. If your shop is not properly equipped or your mechanics are not properly trained in this type of repair, you may be time and money ahead to replace complete assemblies.

A WARNING

■ 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.

• Read Operator's Manual for service instructions or have service performed by a qualified dealer.

■ Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.

■ Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.

■ Do not disconnect hydraulic lines until machine is securely blocked or placed in lowest position and system pressure is released by operating valve levers.

■ 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.

■ 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.

REPLACE BRUSH SECTIONS

- **1.** Remove motor mount screws. Retain hardware for reinstallation. Remove motor mount.
- **2.** Remove bearing mounting plate screws from side. Retain hardware for reinstallation.
- **3.** Remove the side flaps. Retain hardware for reinstallation.
- 4. Lift sweeper body leaving core on ground.
- **5.** Remove the bearing mounting plate and section retainer plate. Retain hardware for reinstallation.
- **6.** Remove old sections.

Install New Sections

1. Number the tubes on the core as 1, 2 and 3. See Figure 13.

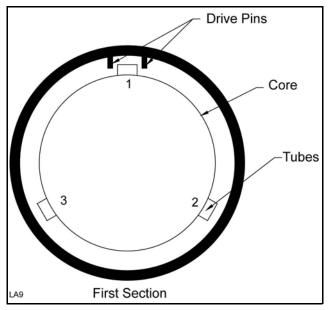


Figure 13. Number Tubes

2. Slide the first section onto the core with the drive pins on either side of tube 1. Make sure that the drive pins angle upward (Figure 13).

3. Place the second section on the core with the drive pins on either side of tube 2. Make sure drive pins angle downward (Figure 14).

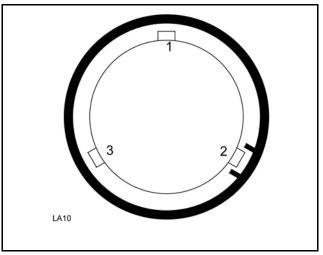


Figure 14. Second Section

- **4.** Put the third section on with the drive pins around tube 3. Make sure drive pins angle upward.
- **5.** Slide sections on until the core is full. Make sure to alternate the tubes used and the direction of the drive pins.

Assemble Unit

- **1.** Attach the section retainer and bearing mounting plate with previously removed hardware.
- 2. Lay core on ground. Lower body over core.
- **3.** Attach bearing mounting plate with previously removed hardware.
- **4.** Reattach motor mount with previously removed hardware.

NOTES

DEALER CHECK LISTS

PRE-DELIVERY CHECK LIST (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 inspect. 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 lock bars on attachment carrier to make sure they are in place.
- ____ 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.

DELIVERY CHECK LIST (DEALER'S RESPONSIBILITY

- ____ Show customer how to make adjustments.
- ____ 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.
- 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.
- ____ Show customer the safe, proper procedures to be used when mounting, dismounting, and storing equipment.
- Explain to customer that when equipment is transported on a road or highway, safety devices should be used to give adequate warning to operators of other vehicles.
- 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.



22 Dealer Check Lists

MAN0661 (8/10/2007)

ASSEMBLY INSTRUCTIONS

DEALER SET-UP INSTRUCTIONS

Assembly of this pick-up broom is the responsibility of the WOODS dealer. It should be delivered to the owner completely assembled, lubricated and adjusted for normal conditions.



■ 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. CON-TACT A PHYSICIAN IMMEDIATELY IF FLUID ENTERS SKIN OR EYES. DO NOT DELAY.

■ 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.

■ Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.

■ Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.



■ 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.

INSTALL GUTTER BRUSH (OPTIONAL)

Pick-up brooms are designed to carry only one gutter brush. Never install more than one gutter brush.

When using a gutter brush, only the main brush sweeps in the over-the-brush direction.

- 1. Remove plugs from holes in either the right or left side of the unit (depending on which side the gutter brush is to be installed).
- **2.** Attach gutter brush mounting plate (15) and attachment plate (4) to broom hood using six cap screws (13), lock washers (25), and flat washers (22).
- **3.** Insert pivot pin (40) into pivot assembly (5), place pivot arm (3) over pivot assembly and align holes. Secure assembly together using clevis pin (24) and cotter pin (30).
- **4.** Insert bushings (6) into each end of attachment plate (4).
- **5.** Slide pivot assembly into attachment plate and secure using bushing (24) and roll pin (31).
- **6.** Attach motor (14) to motor mount plate (7) using four cap screws (18) and lock washers (26).
- **7.** Attach brush head (1) to brush mounting plate (2) using four cap screws (17), flat washers (22), and lock nuts (27).
- **8.** Attach motor mount plate to pivot arm using two carriage bolts (20), flat washers (23), lock washers (26), and hex nuts (28).
- **9.** Attach brush assembly to motor using cap screw (16), lock washer (25), and flat washer (22).
- **10.** Attach swing stop bolt (19) and two hex nuts (29) to the pivot arm.
- **11.** Remove plugs from holes on the top side of the broom hood. Attach chain plate (11) to hood using three cap screws (16), lock washers (25), and flat washers (23).
- **12.** Attach chain (35) and quick link (36) to top of pivot assembly and opposite end of chain to chain plate on the side of the broom hood.

Install Hydraulic Hoses

Use Figure 16 or Figure 17 to install hydraulic hoses for either right or left gutter brush application.

Complete Dealer Check List on page 22 before delivering broom to the customer.

Assembly 23

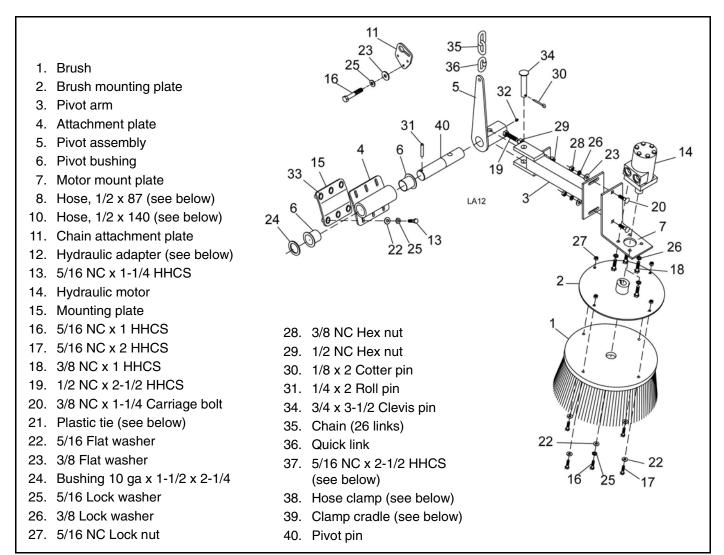


Figure 15. Gutter Brush Assembly

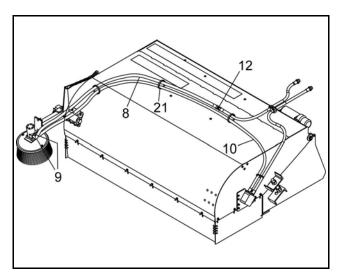


Figure 16. Right Gutter Brush Installation

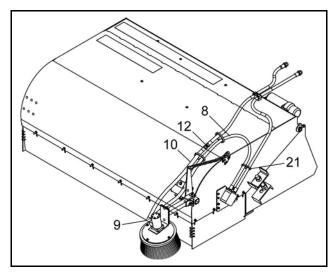
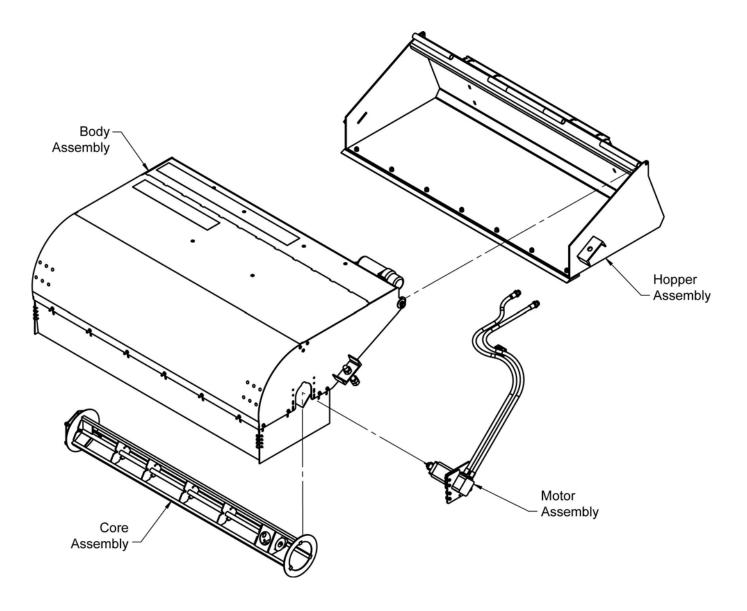


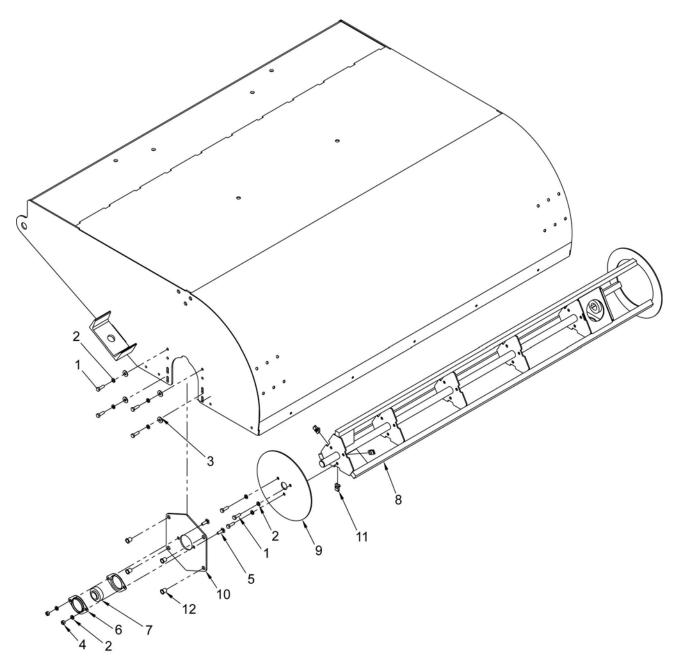
Figure 17. Left Gutter Brush Installation

24 Assembly

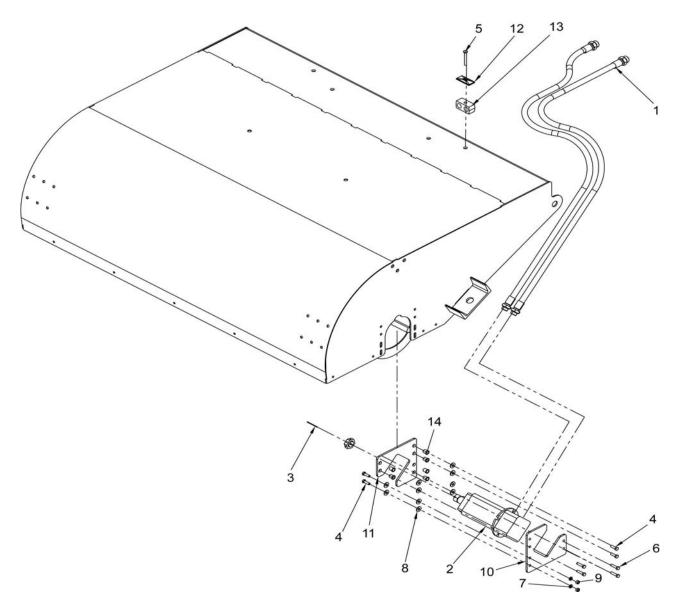


| CORE ASSEMBLY | PAGE 26 |
|-----------------|---------|
| MOTOR ASSEMBLY | PAGE 27 |
| HOOD ASSEMBLY | PAGE 28 |
| HOPPER ASSEMBLY | PAGE 29 |

CORE ASSEMBLY



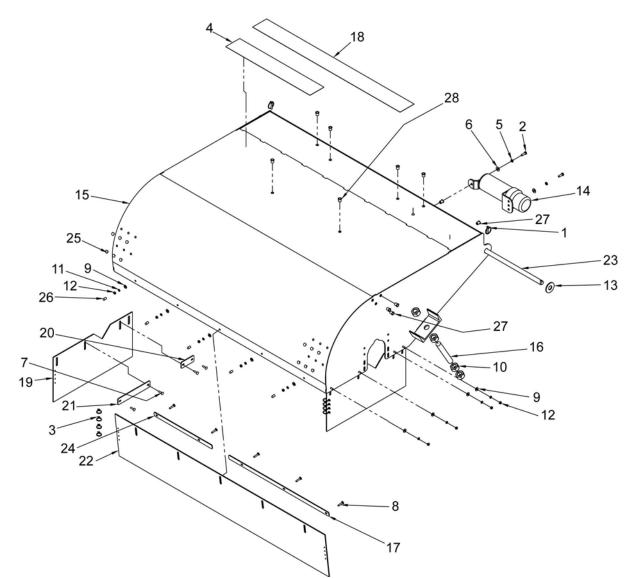
| REF | PART | (| QTY | DESCRIPTION | REF | PART | QTY | DESCRIPTION |
|--------|---------|---|-----|---------------------------|-----|---------|-----|-----------------------------------|
| 1 | 14562 | * | 7 | HHCS 5/16 NC x 1 GR5 | 10 | 1015366 | 1 | Plate mtg bearing PB |
| 2 | 2472 | * | 9 | Washer 5/16 lock | 11 | 1015393 | 3 | Clip nut U-style 5/16-18 |
| 3 | 4378 | * | 4 | Washer 5/16 std flat | 12 | 1015370 | 4 | .313 Rivet nut .150312 |
| 4 | 4529 | * | 2 | Hex nut 5/16 NC | 13 | 1015395 | 1 | Brush set, mixed PB600-2 (NS) |
| 5 | 24409 | * | 2 | Carriage bolt 5/16 NC x 1 | 14 | 1015360 | 1 | Brush set, mixed PB720-2 (NS) |
| 6 | 1015995 | | 2 | Flange bearing 2 hole | 15 | 54627 | 1 | Brush set, poly PB600-2 (NS) |
| 7 | 54691 | | 1 | Bearing, 1 RD w/collar | 16 | 1015361 | 1 | Brush set, poly PB720-2 (NS) |
| , 8 | 1027510 | | • | Core PB600-2 -or- | | | | |
| - | | | 1 | | | | * | Standard hardware, obtain locally |
| 8 | 1027511 | | 1 | Core PB720-2 | | | NO | |
| 9 | 1015374 | | 1 | Plate core retainer PB | | | NS | Not shown |



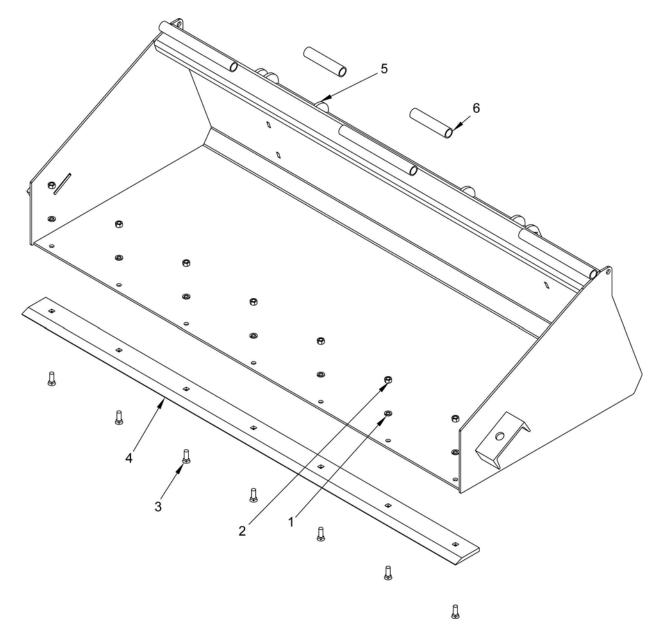
| REF | PART | QTY | DESCRIPTION |
|-----|---------|-----|---|
| 1 | 1015394 | 2 | Hose 1/2 x 120 10 MORS-12MOR |
| 2 | 54644 | 1 | Motor, Hyd 24.9CI, 25GPM |
| 2a | 54740 | 1 | Seal kit (For White Motors) (Earlier Models) |
| 2b | 1035762 | 1 | Seal kit (For White Motors) (Later Models) |
| 2c | 1035763 | 1 | Seal kit (For Parker Motors) |
| 3 | 54601 * | 1 | Clip, hairpin 14GA x 1-3/4 |
| 4 | 14562 * | 4 | HHCS 5/16 NC x 1 GR5 |
| 5 | 10509 * | 1 | HHCS 5/16 NC x 2-1/2 GR5 |
| 6 | 54682 | 4 | HHCS 5/16 NC x 1-1/4 GR8 |
| 7 | 2472 * | 2 | Washer 5/16 lock |
| 8 | 4378 * | 10 | Washer 5/16 std flat |
| 9 | 4529 * | 2 | Nut, hex 5/16 NC |

| REF | PART | QTY | DESCRIPTION |
|-----|---------|-----|-----------------------------------|
| 10 | 1027512 | 1 | Plate, mounting, motor, hydraulic |
| 11 | 1027513 | 1 | Plate, mounting, motor, inner |
| 12 | 1015375 | 1 | Cover plate F/.88 OD |
| 13 | 1015372 | 1 | Hose cradle F/.88 OD |
| 14 | 1015370 | 6 | .313 Rivet nut .150312 |
| | | | |

* Standard hardware, obtain locally



| REF | PART | QTY | DESCRIPTION | REF | PART | QTY | DESCRIPTION |
|-----|---------|-----|------------------------------|-----|---------|-----|-----------------------------------|
| 1 | 54613 * | 2 | Pin, link #1600 | 16 | 1027509 | 2 | Rod, threaded 1-8 x 7 |
| 2 | 14562 * | | HHCS 5/16 NC x 1 GR5 | 17 | 1015379 | 1 | Plate support flap long PB |
| 3 | 21417 * | | Cable tie .30 x 14.5 nylon | 18 | 1015367 | 1 | Non-skid tape 4-42 |
| 4 | 54684 | 1 | Pad, non-slip, 4 x 24, blk | 19 | 1015376 | 2 | Flap side PB |
| 5 | 2472 * | 2 | Washer 5/16 lock | 20 | 1015383 | 2 | Plate support flat side small |
| 6 | 4378 * | 2 | Washer 5/16 std flat | 21 | 1015387 | 2 | Plate support flap side large |
| 7 | 73212 * | 8 | Carriage bolt 1/4 NC x 1 GR5 | 22 | 1015377 | 1 | Flap front PB600-2 |
| 8 | 5645 * | 5 | Carriage bolt 1/4 NC x 1-1/4 | 22 | 1015354 | 1 | Flap front PB720-2 |
| 9 | 5336 * | 13 | Washer 1/4 flat ZP | 23 | 1015388 | 1 | Rod hinge PB600-2 |
| 10 | 54674 | 8 | Nut, hex, GR2 1-8 | 23 | 1015357 | 1 | Rod hinge PB720-2 |
| 11 | 1985 * | 13 | Washer 1/4 std lock | 24 | 1015380 | 1 | Plate support flap short PB |
| 12 | 5288 * | 13 | Nut hex 1/4 NC | 25 | 1015389 | 12 | Plug black 3/8 |
| 13 | 28539 | 2 | Washer 7/8 std SAE flat | 26 | 1015382 | 5 | Vinyl cap .2550 |
| 14 | 1003828 | 1 | Manual tube | 27 | 1015370 | 12 | .313 Rivet nut .150312 |
| 15 | 1027507 | 1 | Hood, PB600-2 -or- | 28 | 1015369 | 2 | .313 Rivet nut .027015 |
| 15 | 1027508 | 1 | Hood, PB720-2 | | | * | Standard hardware, obtain locally |

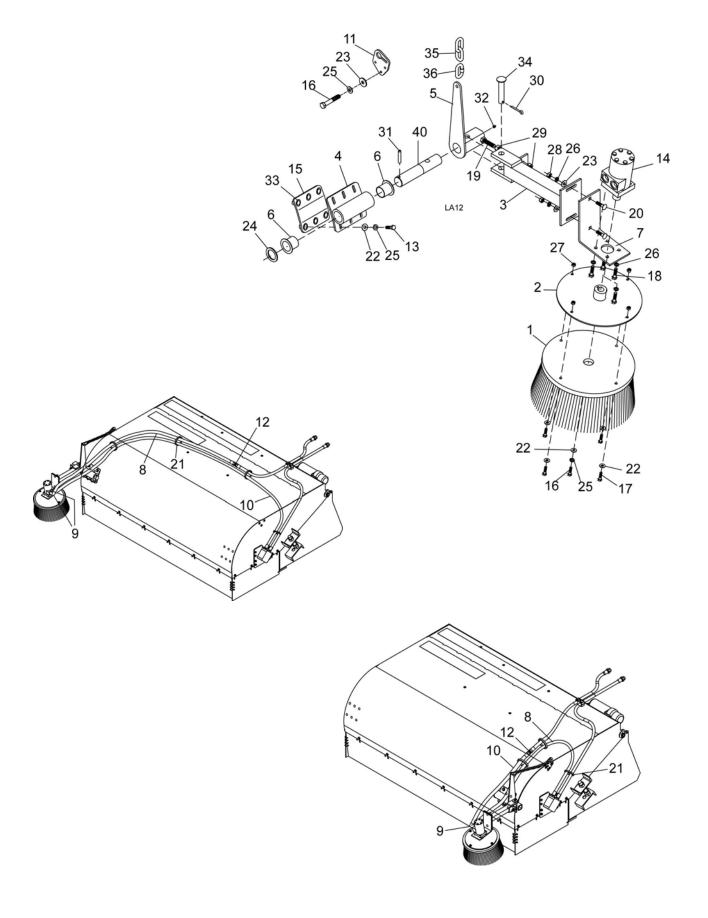


| REF | PART | QTY | DESCRIPTION |
|-----|---------|-----|--------------------------|
| 1 | 855 | * - | Lock washer 1/2 |
| 2 | 1093 | * - | Hex nut 1/2 NC plated |
| 3 | 7152 | - | Plow bolt 1/2 NC x 1-1/2 |
| 4 | 1027502 | 1 | Cutting edge, PB600-2 |
| 4 | 1027503 | 1 | Cutting edge, PB720-2 |
| 5 | 1027504 | 1 | Bucket, PB600-2 |
| 5 | 1027505 | 1 | Bucket, PB720-2 |
| 6 | 1027506 | 2 | Spacer, pipe, PB720-2 |
| | | | |

* Standard hardware, obtain locally

Parts **29**

GUTTER BRUSH ASSEMBLY (OPTIONAL)



30 Parts

MAN0661 (8/10/2007)

GUTTER BRUSH ASSEMBLY PARTS LIST (OPTIONAL)

| REF | PART | QTY | DESCRIPTION | REF | PART | QTY | DESCRIPTION |
|-----|---------|-----|-----------------------------------|-----|-----------|-----|--------------------------------------|
| 1 | 54626 | 1 | Brush, poly | 21 | 21417 * | 4 | Ties, nylon cable, .30 x 14.5" |
| 2 | 54696 | 1 | Plate, brush mounting | 22 | 1016006 * | 14 | Washer, flat 5/16 |
| 3 | 54697 | 1 | Arm | 23 | 565 * | 2 | Washer, flat 3/8 |
| 4 | 1016010 | 1 | Plate, attachment | 24 | 54699 | 1 | Bushing, 10 ga, 1-1/2 - 2-1/4 |
| 5 | 1016013 | 1 | Pivot, weldment | 25 | 2472 * | 10 | Washer, lock 5/16 |
| 6 | 54694 | 2 | Bushing, pivot | 26 | 838 * | 6 | Washer, lock 3/8 |
| 7 | 54698 | 1 | Plate, motor mount | 27 | 14139 * | 4 | Nut, flange lock 5/16 NC |
| 8 | 1016014 | 1 | Hose, 1/2 x 87 | 28 | 835 * | 2 | Nut, hex 3/8 NC |
| 10 | 1016015 | 1 | Hose, 1/2 x 140 | 29 | 1093 * | 2 | Nut, hex 1/2 NC |
| 11 | 1016011 | 1 | Plate, adjustment | 30 | M0021 * | 1 | Pin, cotter 1/8 x 2 |
| 12 | 1016004 | 4 | Adapter, hydraulic | 31 | 54657 | 1 | Pin, roll 1/4 x 2 |
| 13 | 54682 | 6 | HHCS, 5/16 NC x 1-1/4 GR8 | 32 | 1016008 | 1 | Grease fitting, 1/4-28 self-tapping |
| 14 | 54642 | 1 | Motor, hydraulic | 33 | 1015370 | 6 | Nut, rivet 5/16-18 x .15 x .312 Grip |
| 14A | 1019645 | 1 | Seal kit, motor | 34 | 1016001 | 1 | Pin, clevis 3/4 x 3-1/2 |
| 15 | 1016009 | 1 | Plate, mounting | 35 | 1016007 | 1 | Chain, 3/16 (26 Links) |
| 16 | 14562 * | 4 | HHCS, 5/16 NC x 1 GR5 | 36 | 1016005 | 1 | Link, quick 3/16 |
| 17 | 54680 * | 4 | HHCS, 5/16 NC x 2 GR5 | 40 | 1016012 | 1 | Pin, gutter brush pivot |
| 18 | 839 * | 4 | HHCS, 3/8 NC x 1 GR5 | | | | |
| 19 | 62789 * | 1 | HHCS, 1/2 NC x 2 GR5 | | * | | Standard hardware, obtain locally |
| 20 | 24890 * | 2 | Bolt, carriage 3/8 NC x 1-1/4 GR5 | | | | HHCS = Hex head cap screw |

QUICK COUPLER KITS

| | | | with Auxiliary | High-Flow wi | th No Auxiliary | Lo | Low-Flow | | |
|-------------|---------|---------|-------------------------------|--------------|---------------------|---------|---------------|--|--|
| Make | | QC Kit | Description | QC Kit | Description | QC Kit | Description | | |
| Bobcat | | HC356 | Flush Face | HC355 | Flush Face | HC357 | Flush Face | | |
| | Ige | | | | | HC243 | Poppet | | |
| | Vintage | | | | | HC211 | Ag Ball Valve | | |
| Case | | 1013825 | Flush Face | HC212 | Flush Face | HC279 | Flush Face | | |
| | ge | HC278 | Flush Face | | | HC211 | Ag Ball Valve | | |
| | Vintage | HC209 | Flush Face & Ag Ball Valve | | | | | | |
| Cat | | HC538 | Flush Face | 1014196 | Flush Face | 1014197 | Flush Face | | |
| Daewoo | | HC209 | Flush Face | HC212 | Flush Face | HC211 | Ag Ball Valve | | |
| Gehl | | HC398 | Flush Face | 1014195 | Flush Face | HC400 | Flush Face | | |
| | Vintage | | | HC305 | Poppet & Ag Ball | | | | |
| John Deere | | 1014198 | Flush Face | 1013826 | Flush Face | HC310 | Flush Face | | |
| Komatsu | | 1013834 | Flush Face | 1013833 | Flush Face | 1013835 | Flush Face | | |
| New Holland | | 1014199 | Flush Face | HC308 | Flush Face | HC310 | Flush Face | | |
| Scat Trak | | HC537 | Flush Face | | | HC243 | Poppet | | |

QUICK COUPLER KIT COMPONENTS

| QC KIT | Includes | Style | Male/Female | Body Size | Hose End |
|--------|----------|------------|-------------|--------------|----------------|
| HC209 | HC193 | Flush Face | Male | 3/4 | SAE #12 O-ring |
| | HC194 | Flush Face | Female | 3/4 | SAE #12 O-ring |
| | HC195 | Ag Ball | Female | 1/2 | 1/2-14 NPT |
| | HC196 | Ag Ball | Male | 1/2 | 1/2-14 NPT |
| | HC197 | Flush Face | Female | 1/2 | SAE #10 O-ring |
| HC211 | HC195 | Ag Ball | Female | 1/2 | 1/2-14 NPT |
| | HC196 | Ag Ball | Male | 1/2 | 1/2-14 NPT |
| HC212 | HC193 | Flush Face | Male | 3/4 | SAE #12 O-ring |
| | HC194 | Flush Face | Female | 3/4 | SAE #12 O-ring |
| | HC197 | Flush Face | Female | 1/2 | SAE #10 O-ring |
| HC278 | HC193 | Flush Face | Male | 3/4 | SAE #12 O-ring |
| | HC194 | Flush Face | Female | 3/4 | SAE #12 O-ring |
| | HC197 | Flush Face | Female | 1/2 | SAE #10 O-ring |
| | HC201 | Flush Face | Male | 1/2 | SAE #10 O-ring |
| HC279 | HC197 | Flush Face | Female | 1/2 | SAE #10 O-ring |
| | HC201 | Flush Face | Male | 1/2 | SAE #10 O-ring |

32 Quick Coupler

Quick Coupler Chart (Rev. 10/20/2006)

QUICK COUPLER KIT COMPONENTS

| QC KIT | Includes | Style | Male/Female | Body Size | Hose End |
|---------|----------|------------|-------------|--------------|----------------|
| HC308 | HC416 | Flush Face | Female | 5/8 | SAE #12 O-ring |
| | HC417 | Flush Face | Male | 5/8 | SAE #12 O-ring |
| | HC418 | Flush Face | Male | 3/8 | SAE #8 O-ring |
| HC310 | HC414 | Flush Face | Male | 1/2 | SAE #12 O-ring |
| | HC415 | Flush Face | Female | 1/2 | SAE #12 O-ring |
| HC355 | HC344 | Flush Face | Male | 12 mm | SAE #12 O-ring |
| | HC345 | Flush Face | Female | 12 mm | SAE #12 O-ring |
| | HC346 | Flush Face | Female | 9 mm | SAE #8 O-ring |
| HC356 | HC342 | Flush Face | Female | 7 mm | SAE #6 O-ring |
| | HC343 | Flush Face | Male | 7 mm | SAE #6 O-ring |
| | HC344 | Flush Face | Male | 12 mm | SAE #12 O-ring |
| | HC345 | Flush Face | Female | 12 mm | SAE #12 O-ring |
| | HC346 | Flush Face | Female | 9 mm | SAE #8 O-ring |
| HC357 | HC344 | Flush Face | Male | 12 mm | SAE #12 O-ring |
| | HC345 | Flush Face | Female | 12 mm | SAE #12 O-ring |
| HC398 | HC344 | Flush Face | Male | 12 mm | SAE #12 O-ring |
| | HC345 | Flush Face | Female | 12 mm | SAE #12 O-ring |
| | HC346 | Flush Face | Female | 9 mm | SAE #8 O-ring |
| HC400 | HC344 | Flush Face | Male | 12 mm | SAE #12 O-ring |
| | HC345 | Flush Face | Female | 12 mm | SAE #12 O-ring |
| HC537 | HC415 | Flush Face | Female | 1/2 | SAE #12 O-ring |
| | HC416 | Flush Face | Female | 5/8 | SAE #12 O-ring |
| | HC417 | Flush Face | Male | 5/8 | SAE #12 O-ring |
| | HC418 | Flush Face | Male | 3/8 | SAE #8 O-ring |
| HC538 | HC521 | Flush Face | Female | 16 mm | SAE #12 O-ring |
| | HC522 | Flush Face | Male | 16 mm | SAE #12 O-ring |
| | 1532994 | Flush Face | Female | 3/4 | SAE #12 O-ring |
| | 1532995 | Flush Face | Male | 3/4 | SAE #12 O-ring |
| | 1532997 | Flush Face | Female | 1/2 | SAE #8 O-ring |
| 1013825 | HC417 | Flush Face | Male | 5/8 | SAE #12 O-ring |
| | HC418 | Flush Face | Male | 3/8 | SAE #8 O-ring |
| | HC545 | Flush Face | Female | 5/8 | SAE #12 O-ring |
| | HC546 | Flush Face | Female | 1/2 | SAE #10 O-ring |
| | HC547 | Flush Face | Male | 1/2 | SAE #10 O-ring |
| 1013826 | HC343 | Flush Face | Male | 7 mm | SAE #6 O-ring |
| | HC521 | Flush Face | Female | 16 mm | SAE #12 O-ring |
| | HC522 | Flush Face | Male | 16 mm | SAE #12 O-ring |
| 1013833 | HC415 | Flush Face | Female | 1/2 | SAE #12 O-ring |
| | HC521 | Flush Face | Female | 16 mm | SAE #12 O-ring |
| | HC522 | Flush Face | Male | 16 mm | SAE #12 O-ring |

Quick Coupler 33

Quick Coupler Chart (Rev. 10/20/2006)

QUICK COUPLER KIT COMPONENTS

| QC KIT | Includes | Style | Male/Female | Body Size | Hose End |
|---------|----------|------------|-------------|--------------|----------------|
| 1013834 | HC414 | Flush Face | Male | 1/2 | SAE #12 O-ring |
| | HC415 | Flush Face | Female | 1/2 | SAE #12 O-ring |
| | HC521 | Flush Face | Female | 16 mm | SAE #12 O-ring |
| | HC522 | Flush Face | Male | 16 mm | SAE #12 O-ring |
| 1013835 | 46058 | Flush Face | M/F Set | 3/4 | SAE #12 O-ring |
| 1014195 | HC344 | Flush Face | Male | 12 mm | SAE #12 O-ring |
| | HC345 | Flush Face | Female | 12 mm | SAE #12 O-ring |
| | HC346 | Flush Face | Female | 9 mm | SAE #8 O-ring |
| 1014196 | HC521 | Flush Face | Female | 16 mm | SAE #12 O-ring |
| | HC522 | Flush Face | Male | 16 mm | SAE #12 O-ring |
| | 1532997 | Flush Face | Female | 1/2 | SAE #8 O-ring |
| 1014197 | 1532994 | Flush Face | Female | 3/4 | SAE #10 O-ring |
| | 1532995 | Flush Face | Male | 3/4 | SAE #10 O-ring |
| 1014198 | HC343 | Flush Face | Male | 7 mm | SAE #6 O-ring |
| | HC414 | Flush Face | Male | 1/2 | SAE #12 O-ring |
| | HC415 | Flush Face | Female | 1/2 | SAE #12 O-ring |
| | HC521 | Flush Face | Female | 16 mm | SAE #12 O-ring |
| | HC522 | Flush Face | Male | 16 mm | SAE #12 O-ring |
| 1014199 | HC414 | Flush Face | Male | 1/2 | SAE #12 O-ring |
| | HC415 | Flush Face | Female | 1/2 | SAE #12 O-ring |
| | HC416 | Flush Face | Female | 5/8 | SAE #12 O-ring |
| | HC417 | Flush Face | Male | 5/8 | SAE #12 O-ring |
| | HC418 | Flush Face | Male | 3/8 | SAE #8 O-ring |

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 |
|------|---------------------------------------|---|--------------------|
| 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 3 | 7° Flare | O-Ring Stra | aight Thread | Sea | -Lok | | | |
| Size | Lbs-Ft | N-m | Lbs-Ft | N-m | Lbs-Ft | 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 | | | | | | | |

Appendix 35

Fitting Torque Chart (7/15/2005)

BOLT TORQUE CHART

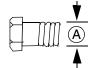
Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application.

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

SAE Grade 2 (No Dashes)

SAE Bolt Head Identification

(3 Radial Dashes)



SAE Grade 8 (6 Radial Dashes)

| | | MARKING ON HEAD | | | | | | |
|-----------------|---------|-----------------|-----|--------|------|--------|------|--|
| (A) Diameter | Wrench | SA | E 2 | SA | AE 5 | SA | E 8 | |
| (Inches) | Size | lbs-ft | N-m | lbs-ft | N-m | lbs-ft | N-m | |
| 1/4" | 7/16" | 6 | 8 | 10 | 13 | 14 | 18 | |
| 5/16" | 1/2" | 12 | 17 | 19 | 26 | 27 | 37 | |
| 3/8" | 9/16" | 23 | 31 | 35 | 47 | 49 | 67 | |
| 7/16" | 5/8" | 36 | 48 | 55 | 75 | 78 | 106 | |
| 1/2" | 3/4" | 55 | 75 | 85 | 115 | 120 | 163 | |
| 9/16" | 13/16" | 78 | 106 | 121 | 164 | 171 | 232 | |
| 5/8" | 15/16" | 110 | 149 | 170 | 230 | 240 | 325 | |
| 3/4" | 1-1/8" | 192 | 261 | 297 | 403 | 420 | 569 | |
| 7/8" | 1-5/16" | 306 | 416 | 474 | 642 | 669 | 907 | |
| 1" | 1-1/2" | 467 | 634 | 722 | 979 | 1020 | 1383 | |



METRIC SERIES TORQUE CHART



Metric Bolt Head Identification



Metric Grade 10.9

| | I | | | | | | | Grade | 1010 | |
|----------------------------|--------|---------------|-----------------|--------|-------------|-------|---------|---------|--------|----------------------------|
| | | Coarse Thread | | | Fine Thread | | | | - | |
| A | 4) | | Marking on Head | | | | Marking | on Head | | (A) |
| Diameter & Thread Pitch | Wrench | Metr | ic 8.8 | Metrie | c 10.9 | Metri | ic 8.8 | Metrie | c 10.9 | Diameter & Thread Pitch |
| (Millimeters) | Size | N-m | lbs-ft | N-m | lbs-ft | N-m | lbs-ft | N-m | lbs-ft | (Millimeters) |
| 6 x 1.0 | 10 mm | 8 | 6 | 11 | 8 | 8 | 6 | 11 | 8 | 6 x 1.0 |
| 8 x 1.25 | 13 mm | 20 | 15 | 27 | 20 | 21 | 16 | 29 | 22 | 8 x 1.0 |
| 10 x 1.5 | 16 mm | 39 | 29 | 54 | 40 | 41 | 30 | 57 | 42 | 10 x 1.25 |
| 12 x 1.75 | 18 mm | 68 | 50 | 94 | 70 | 75 | 55 | 103 | 76 | 12 x 1.25 |
| 14 x 2.0 | 21 mm | 109 | 80 | 151 | 111 | 118 | 87 | 163 | 120 | 14 x 1.5 |
| 16 x 2.0 | 24 mm | 169 | 125 | 234 | 173 | 181 | 133 | 250 | 184 | 16 x 1.5 |
| 18 x 2.5 | 27 mm | 234 | 172 | 323 | 239 | 263 | 194 | 363 | 268 | 18 x 1.5 |
| 20 x 2.5 | 30 mm | 330 | 244 | 457 | 337 | 367 | 270 | 507 | 374 | 20 x 1.5 |
| 22 x 2.5 | 34 mm | 451 | 332 | 623 | 460 | 495 | 365 | 684 | 505 | 22 x 1.5 |
| 24 x 3.0 | 36 mm | 571 | 421 | 790 | 583 | 623 | 459 | 861 | 635 | 24 x 2.0 |
| 30 x 3.0 | 46 mm | 1175 | 867 | 1626 | 1199 | 1258 | 928 | 1740 | 1283 | 30 x 2.0 |

Typical Washer Installations Bolt

Lock Washer (T)

Flat Washer Œ

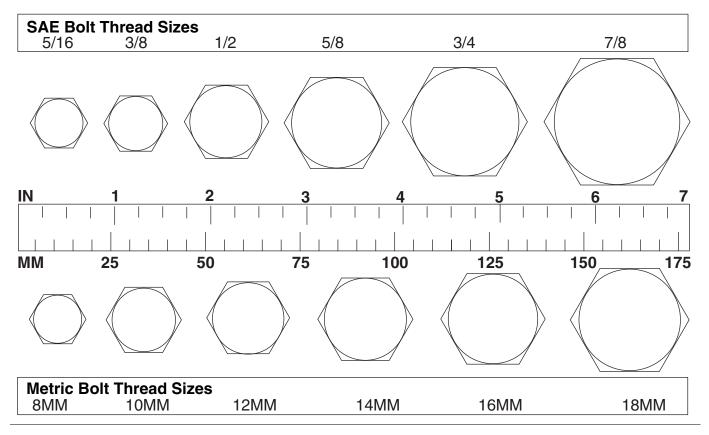
36 Appendix

Bolt Torque & Size Charts (Rev. 3/28/2007)

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BOLT SIZE CHART

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



ABBREVIATIONS

| AG Agriculture | |
|--|---|
| ASABE American Society of Agricultural & Biological Engineers (formerly ASAE) | L |
| ASAE American Society of Agricultural Engineers | |
| ATF Automatic Transmission Fluid | |
| BSPPBritish Standard Pipe Parallel | |
| BSPTMBritish Standard Pipe Tapered Male | |
| CVConstant Velocity | |
| CCW Counter-Clockwise | |
| CWClockwise | |
| F Female | |
| FT Full Thread | |
| GA Gauge | |
| GR (5, etc.) Grade (5, etc.) | |
| HHCSHex Head Cap Screw | |
| HT Heat-Treated | |
| JICJoint Industry Council 37° Degree Flare | |
| LHLeft Hand | |
| LTLeft | |
| mMeter | |
| mmMillimeter | |
| M Male | |

| MPa | Mega Pascal |
|---------|-------------------------------------|
| N | Newton |
| NC | National Coarse |
| NF | National Fine |
| NPSM | National Pipe Straight Mechanical |
| NPT | National Pipe Tapered |
| NPT SWF | National Pipe Tapered Swivel Female |
| ORBM | O-Ring Boss - Male |
| P | Pitch |
| PBY | Power-Beyond |
| psi | Pounds per Square Inch |
| PTO | Power Take Off |
| QD | Quick Disconnect |
| RH | Right Hand |
| ROPS | |
| RPM | Revolutions Per Minute |
| RT | Right |
| SAE | Society of Automotive Engineers |
| UNC | Unified Coarse |
| UNF | Unified Fine |
| UNS | Unified Special |
| | |

Bolt Torque & Size Charts (Rev. 3/28/2007)

| _ | | _ | | | | |
|--|--|---|--|--|--|--|
| | | _ | | | | |
| | WARRANTY | 1 | | | | |
| | All Models Except Mow'n Machine TM Zero-Turn Mowers | | | | | |
| Please Enter J | information Below and Save for Future Reference. | | | | | |
| Date Pur | rchased: From (Dealer): | | | | | |
| | Jumber: Serial Number: | | | | | |
| Woods Equipr below, the du | ment Company ("WOODS") warrants this product to be free from defect in material and workmans uration of this Warranty shall be for TWELVE (12) MONTHS COMMENCING ON THE D O THE ORIGINAL PURCHASER. | ship. Except as otherwise set forth | | | | |
| | odel loaders and backhoes are warranted for two (2) years from the date of delivery to the original p periods for specific parts or conditions are listed below: | purchaser. | | | | |
| Part or Condition Warranted | Model Number | Duration (from date of delivery to the original purchaser) | | | | |
| | All units invoiced after 4/30/2012 | | | | | |
| | BW1260, BW1620, BW1800, BW1260X, BW1800X, BW2400 | ↓ | | | | |
| | BW240HD, BW180HD, BW180HB, BW126HB, BW126XHD, BW180XHD | ↓ | | | | |
| Gearbox | BB48X, BB60X, BB72X, BB84X, BB600X, BB720X, BB840X, BB6000X, BB7200X, BB8400X, DS1260, DS01260, DS1440, TS1680, BW126-3, BW180-3, BW240, BW126X, BW180X | 6 years | | | | |
| components | PHD25, PHD35, PHD65, PHD95, DS96, DS120, RCC42, RD990X, PRD6000, PRD7200, PRD8400, S15CD, S20CD, S22CD, S25CD, S27CD, S30CD BW15LH, TC/R74, TC/R68, TC/R60, TBW144, TBW180, TBW204 | | | | | |
| | RDC54, RD60, RD72, TBW150C, TS/R60, TS/R52, TS/R44, HC48, HC54, HC60, HC72 | 3 years (1 year if used in rental or commercial applications) | | | | |
| Blade spindles | RD990X, PRD6000, PRD7200, PRD8400, TBW144, TBW180, TBW204 | 3 years | | | | |
| Rust-through | BB600, BB720, BB840, BB6000, BB7200, BB8400, BW126-3, BW126HB, BW180-3, BW180HB, BW180HD, BW1260, BW1800, BW240, BW240HD, DS1260, DS01260, DS1440, TS1680 | 10 years | | | | |
| improper oper modified or re This Warranty than those obt | cumstances will this Warranty apply in the event that the product, in the good faith opinion of ration, improper maintenance, misuse, or an accident. This Warranty does not apply in the event tha epaired by someone other than WOODS, a WOODS authorized dealer or distributor, and/or a Wo y does not cover normal wear or tear, or normal maintenance items. This Warranty also does not co tainable through WOODS. | at the product has been materially OODS authorized service center. over repairs made with parts other | | | | |
| third party, thi | This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty. | | | | | |
| WOODS. War | WOODS makes no warranty, express or implied, with respect to engines, batteries, tires or other parts or accessories not manufactured by WOODS. Warranties for these items, if any, are provided separately by their respective manufacturers. | | | | | |
| its sole discret purchase wit | igation under this Warranty is limited to, at WOODS' option, the repair or replacement, free of char tion, deems it to be defective or in noncompliance with this Warranty. The product must be retu thin thirty (30) days after such defect or noncompliance is discovered or should have been of | urned to WOODS with proof of discovered, routed through the | | | | |
| replacement w | distributor from whom the purchase was made, transportation charges prepaid. WOODS within a reasonable time after WOODS receives the product. THERE ARE NO OTHER REMEDING OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THI | ES UNDER THIS WARRANTY. | | | | |
| | THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. WOODS | | | | | |

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Woods Equipment Company

2606 South Illinois Route 2 Post Office Box 1000 Oregon, Illinois 61061 USA

800-319-6637 tel 800-399-6637 fax www.WoodsEquipment.com



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WARRANTY

(Replacement Parts For All Models Except Mow'n Machine[™] Zero-Turn Mowers)

Woods Equipment Company ("WOODS") warrants this product to be free from defect in material and workmanship for a period of ninety (90) days from the date of delivery of the product to the original purchaser with the exception of V-belts, which will be free of defect in material and workmanship for a period of 12 months.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of WOODS, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not cover normal wear or tear, or normal maintenance items.

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WOODS' obligation under this Warranty is limited to, at WOODS' option, the repair or replacement, free of charge, of the product if WOODS, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. **The product must be returned to WOODS with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid.** WOODS shall complete such repair or replacement within a reasonable time after WOODS receives the product. THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.

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No agent, representative, dealer, distributor, service person, salesperson, or employee of any company, including without limitation, WOODS, its authorized dealers, distributors, and service centers, is authorized to alter, modify, or enlarge this Warranty.

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