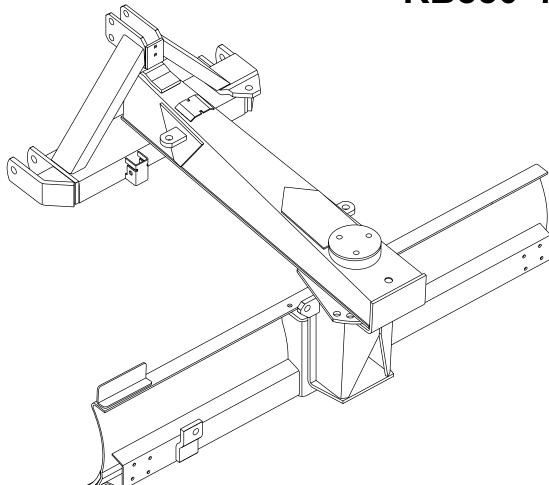
WOCDS

REAR BLADES

RB750-4

RB850-4



MAN0160 (Rev 05/16/2023)

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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 f	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.



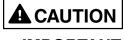
This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



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.

2 Introduction

MAN0160 (05/16/2023)

MAN0160 2023-05.indd 2 5/23/23 12:15 PM

TABLE OF CONTENTS

INTRODUCTION	2
SPECIFICATIONS	4
GENERAL INFORMATION	4
SAFETY RULES	Ę
TRAINING	Ę
PREPARATION	Ę
OPERATION	Ę
TRANSPORTATION	6
MAINTENANCE	6
STORAGE	6
SAFETY & INSTRUCTIONAL DECALS	7
OPERATION	ę
MOUNT BLADE TO TRACTOR	ί
BLADE ANGLE ADJUSTMENT	1(
REVERSE BLADE	1(
TILT ADJUSTMENT	11
OFFSET (SWING)	11
OPERATING TIPS	12
BACKFILLING	12
LEVELING AND GRADING	
PRE-OPERATION CHECKLIST	
OWNER SERVICE	13
BLADE CUTTING EDGE	13
LUBRICATION	13
BOLTS	13
CLEANING	13
ASSEMBLY	14
DEALER SET-UP INSTRUCTIONS	14
MAIN ASSEMBLY - ALL MODELS	15
MANUAL CONFIGURATION	18
HYDRAULIC CONFIGURATION	23
OPTIONAL EQUIPMENT - ALL MODELS	27
DEALER CHECKLISTS	3(
PARTS INDEX	31
INDEX	47
APPENDIX	48
BOLT TORQUE CHART	48
BOLT SIZE CHART	49
ADDDENIATIONS	



¡LEA EL INSTRUCTIVO!

Si no lee Ingles, pida ayuda a alguien que si lo lee 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.

MAN0160 (05/16/2023) Introduction 3

SPECIFICATIONS

MODEL RB750-4 RB850-4 **Blade Width** 7 ft. (2133 mm) 8 ft. (2438 mm) **Tractor HP Requirement** 100 HP Maximum 100 HP Maximum (75 kW) (75 kW)

Weight:

M = Manual 811 lbs. (368 kg) 856 lbs. (388 kg) H = Hydraulic 1010 lbs. (458 kg) 1050 lbs. (478 kg)

Model Codes:

M = All Manual: Angle, Tilt & Swing

MA = Manual Swing & Tilt; Hydraulic Angle for tractors with at least one hydraulic port MT = Manual Swing & Angle; Hydraulic Tilt for tractors with at least one hydraulic port SA = Manual Tilt; Hydraulic Swing & Angle for tractors with at least two hydraulic ports

TA = Manual Swing; Hydraulic Tilt & Angle for tractors with at least two ports H = All Hydraulic; Angle, Tilt & Swing for tractors with three hydraulic ports

Blade Position - Mechanical . . . Straight, forward or reverse;

Angle 15, 30, 45 & 60 degrees, right or left in forward;

15 & 30 degrees in reverse; Tilt 15 or 30 degrees up or down;

Offset 12" or 24" (305 mm or 610 mm) left or right of tractor center line;

Pitch adjustment in top link of tractor 3-point hitch

Blade Positions - Hydraulic . . . Straight, forward or reverse;

Angle 45 degrees right or left forward and reverse;

Tilt 22 degrees up or down;

Offset 24" (610 mm) right or left of tractor center line; Pitch adjustment in top link of tractor 3-point hitch

3-Point Hitch Category Category 2

Category 2 Quick attaching coupler, with bushing kit #18295

Category 3, with bushing kit #18295

Structural Strength:

A-Frame 8 x 4 (203 mm x 102 mm) Formed channel

Boom. All-welded box section King Pin 6-5/8" (168 mm) Tubing

Moldboard Formed moldboard and all welded box section

Pivot Assembly All-welded steel box section

GENERAL INFORMATION

The purpose of this manual is to assist you in operating and maintaining your Rear Blade. 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. However, 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 and left directions. These are determined by standing behind the tractor facing the direction of forward travel.

4 Introduction

MAN0160 (05/16/2023)

MAN0160 2023-05.indd 4 5/23/23 12:15 PM

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

- 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 torque chart specifications unless instructed otherwise in this manual.
- Do not connect a low-pressure hydraulic hose into a high-pressure system—it will burst the hose. Do not use a high-pressure hose in place of a low-pressure hose—it is possible to rupture the valve.
- 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.
- Make sure attachment is properly secured, adjusted, and in good operating condition.
- 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 systems in "locked up" position at all times.
- A minimum 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and equipment. Do not estimate.
- Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)
- Make sure circuit selector lever does not hit tractor cab, etc. throughout operating range of 3-point hitch of tractor. Bend lever, if necessary, to clear cab, but it should still be convenient to operate from the tractor seat.

OPERATION

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

MAN0160 (05/16/2023) Safety 5

SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



- Always comply with all state and local lighting and marking requirements.
- Never allow riders on power unit or attachment.
- 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 systems 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.
- Look down and to the rear and make sure area is clear before operating in reverse.
- Do not operate 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 equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.
- Before changing positions of manual swing, tilt, or angle positions:
 - Park tractor on level ground, apply parking brake, level implement boom, shut off tractor, and remove key.
 - Make manual changes slowly and carefully to prevent hazardous movement of mechanisms.
 - Never stand in positions where you could become entrapped during adjustment changes or if the 3-point hitch suddenly lowers.
- Always secure lock pins with safety pins to prevent lock pins from bumping out of the positioning holes. Failure to do so may result in accidents and/ or damage to blade.

TRANSPORTATION

- Before transporting, pivot the unit so red reflectors face the rear.
- Always comply with all state and local lighting and marking requirements.
- Never allow riders on power unit or attachment.

- Do not operate or transport on steep slopes.
- Do not operate or transport equipment while under the influence of alcohol or drugs.

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 working underneath, read manual instructions, securely block up, and check stability. Secure blocking prevents equipment from dropping due to hydraulic leak down, hydraulic system failure, or mechanical component failure.
- 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.
- 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 attachment is properly secured, adjusted, and in good operating condition.
- 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.)
- Do not disconnect hydraulic lines until machine is securely blocked or placed in lowest position and system pressure is released by operating valve levers.

STORAGE

- Secure equipment parking stand(s) in park position before detaching.
- Keep children, bystanders, and animals away from the equipment and the storage area.

6 Safety

MAN0160 (05/16/2023)

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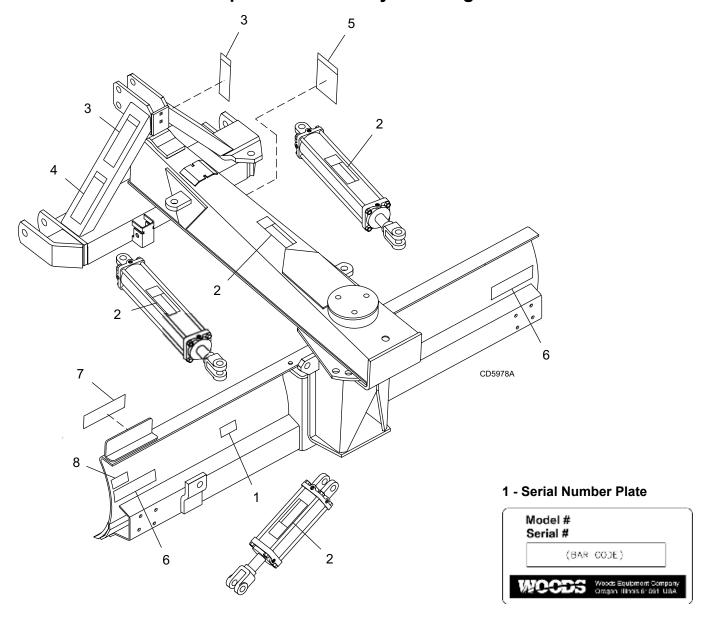
SAFETY & INSTRUCTIONAL DECALS



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Replace Immediately If Damaged!



2 - PN W19924



HIGH-PRESSURE HYDRAULIC OIL LEAKS CAN PENETRATE SKIN RESULTING IN SERIOUS INJURY, GANGRENE OR DEATH.

- Check for leaks with cardboard; never use hand.
- Before loosening fittings: lower load, release pressure, and be sure oil is cool.
- Consult physician immediately if skin penetration occurs.

- 6 PN 57123 **RED REFLECTOR 9"**
- 7 PN 1002940 **YELLOW REFLECTOR 9"**

MAN0160 (05/16/2023) Safety 7

SAFETY & INSTRUCTIONAL DECALS



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Replace Immediately If Damaged!

3 - PN 1002941



CRUSHING AND PINCHING HAZARD

- Be extremely careful handling various parts of the machine. They are heavy and hands, fingers, feet, and other 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 COULD RESULT IN SERIOUS INJURY OR DEATH.

4 - PN 1004250

WARNING

TO AVOID SERIOUS INJURY OR DEATH:

- Read Operator's Manual before operating, servicing, or repairing equipment. Follow all safety rules and instructions. (Manuals are available from dealer or call 1-800-319-6637.)
- Operate from tractor seat only.
- Lower equipment to ground, stop engine, remove key, and set brake before dismounting tractor.
- Never allow children or untrained persons to operate equipment.
- Never allow riders.
- Keep bystanders away from equipment during operation.
- Keep all shields in place and in good condition.

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

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. 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.

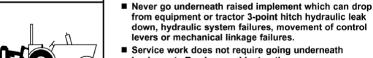
5 - PN 55121

WARNING

FALLING OFF CAN RESULT IN BEING RUN OVER.

- Tractor must be equipped with ROPS (or ROPS CAB) and seat belt. Keep foldable ROPS systems in "locked up" position at all times.
- Buckle Up! Keep seat belt securely fastened.
- Allow no riders.

RAISED IMPLEMENT CAN DROP AND CRUSH.



implement. Read manual instructions.

FALLING OFF OR GOING UNDERNEATH IMPLEMENT CAN RESULT IN SERIOUS INJURY OR DEATH.

8 - PN 1003193

A WARNING

Unit must not extend more than 4 feet left of center of the tractor when driving on public roads.

8 Safety

MAN0160 (05/16/2023)

MAN0160 2023-05.indd 8 5/23/23 12:15 PM

OPERATION

A WARNING

- Never allow children or untrained persons to operate equipment.
- Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.
- Before working underneath, read manual instructions, securely block up, and check stability. Secure blocking prevents equipment from dropping due to hydraulic leak down, hydraulic system failure, or mechanical component failure.
- Never allow riders on power unit or attachment.
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.
- 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.

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

A CAUTION

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.

MOUNT BLADE TO TRACTOR

IMPORTANT

The RB750-4 & RB850-4 should be mounted on tractors with a maximum horsepower rating of 100 hp (75 kW). The Rear Blade is a 3-point Category 2 implement. It will attach to ASAE standard Category 2 quick-attaching coupler or on 3-point Category 3 tractor, using a bushing kit.

NOTE: Only use on Category 3, 3-point hitch tractor whose lower lift arms adjust to 32" (813 mm) apart.

- 1. Set the tractor drawbar in short-high position.
- Attach tractor draft links to the A-frame with 1-1/8" pin (21) and secure with Klik pins (44).
- 3. Connect the tractor top link to top hole in A-frame, using 1 x 4-29/32" heat-treated pin (20) and cotter pin (31). Use 1 x 1-1/4" bushing (23) and 1-1/8 x 1-7/16" heat-treated bushing (24) with Category 2 quick-attaching coupler and category 3, 3-point hitch tractor.
- **4.** Level the boom by adjusting lift and top link.
- **5.** Position sway blocks to eliminate side sway or install sway braces if required.

NOTE: The drawbar may have to be removed on some tractors. Make sure blade is at least 6" (152 mm) from tractor tires throughout operating range of 3-point hitch.

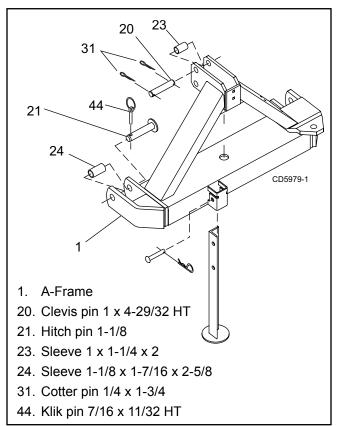


Figure 1. A-Frame Components

MAN0160 (05/16/2023) Operation 9

BLADE ANGLE ADJUSTMENT

- Before changing positions of manual swing, tilt, or angle positions:
 - Park tractor on level ground, apply parking brake, level implement boom, shut off tractor, and remove key.
 - Make manual changes slowly and carefully to prevent hazardous movement of mechanisms.
 - Never stand in positions where you could become entrapped during adjustment changes or if the 3-point hitch suddenly lowers.
- Always secure lock pins with safety pins to prevent lock pins from bumping out of the positioning holes. Failure to do so may result in accidents and/or damage to blade.

Mechanical

The blade may be angled 15, 30, 45 and 60 degrees for forward grading, and 15 and 30 degrees for backfilling to right or left from center position without unhooking the blade from the tractor.

- 1. Raise the blade a few inches off the ground by operating the lift control lever of the tractor 3-point hitch.
- 2. Remove the safety pin (10) and lock pin (2).
- 3. Set blade at desired position and replace pins.

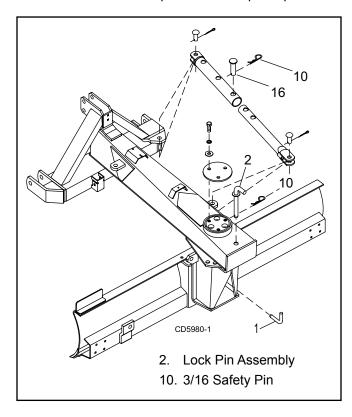


Figure 2. Mechanical Configuration Assembly

Hydraulic

The blade may be angled 45 degrees or to any position in between, to the right or left by hydraulic remote control from the tractor seat.

- 1. Raise the blade a few inches off the ground by operating the lift control lever of the tractor.
- Actuate the control valve the angling cylinder is connected to.
- On tractors with two circuit selector valves, select angling circuit and actuate the tractor control valve connected to selector valve.

NOTE: Do not operate the selector valve under load.

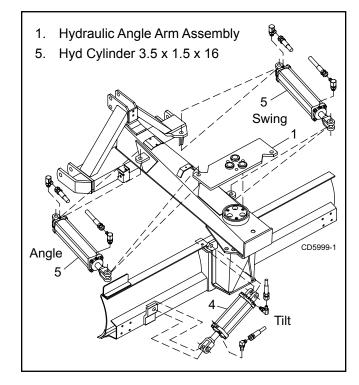


Figure 3. Hydraulic Configuration Assembly

REVERSE BLADE

The blade is reversible without removing it from the tractor.

- **1.** Raise blade off the ground.
- Mechanical Remove the lock pin (2), Figure 2, and rotate it counter-clockwise to the desired position and replace pins.
- 3. Hydraulic Detach the angling cylinder (7) from the hydraulic angle arm (1), Figure 3, and rotate it counter-clockwise to the desired position. Attach angling cylinder (7) to hydraulic angle arm (1).

NOTE: In some cases it may be necessary to offset to the right and tip up the right end of the blade to rotate it.

10 Operation

MAN0160 (05/16/2023)

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TILT ADJUSTMENT

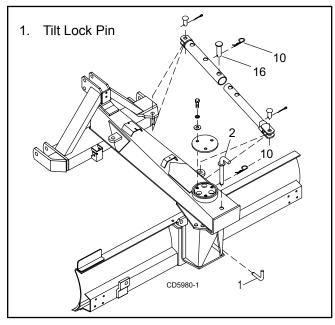


Figure 4. Mechanical Configuration - Tilt

Mechanical

The blade may be tilted 15 and 30 degrees up and down.

To tilt blade:

- 1. Remove tilt lock pin (1),
- 2. Rotate the blade to the desired position, and
- 3. Replace the pin.

NOTE: Additional tilting may be obtained by adjusting the draft links of the 3-point hitch.

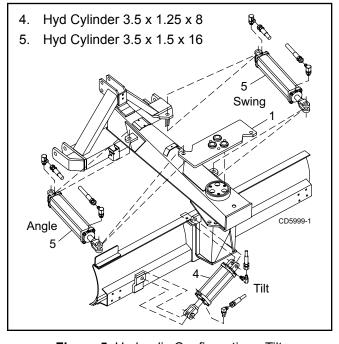


Figure 5. Hydraulic Configuration - Tilt

Hydraulic

The blade may be tilted 22 degrees up or down and to any position in between.

To prevent damage to the blade and hydraulic cylinder, do not use lock pin (1, Figure 4).

NOTE: In some cases it may not be possible to fully tilt and angle and still be able to raise the blade high enough to clear the ground. In this case, use less tilt.

NOTE: It is possible for the blade to contact other components if the blade is tilted when angled. Operate blade slowly when angling blade.

OFFSET (SWING)

Mechanical Adjustment

The blade may be offset 12" (305 mm) and 24" (610 mm), either side from the center position.

To offset the blade:

- 1. Park the tractor on level ground.
- Apply parking brake and raise blade 2" (51 mm) above the ground.
- **3.** Shut off the engine and level the boom.
- **4.** Remove safety pin (10) and lock pin (16), swing the boom to the desired position and replace the pins.

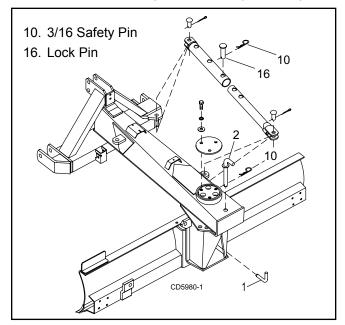


Figure 6. Mechanical Configuration - Offset

MAN0160 (05/16/2023) Operation 11

MAN0160_2023-05.indd 11 5/23/23 12:15 PM

Adjustment with Hydraulic Swing Cylinder

The swing cylinder rotates the boom 30 degrees right or left or to any position in between, resulting in a maximum of 24" (610 mm) offset to right or left.

To angle the blade:

- Raise blade a few inches above the ground by operating the lift control lever of the tractor.
- Actuate the control valve to which the swing cylinder is connected.
- On tractors having two circuit selector valves, select swing circuit and actuate tractor control valve connected to selector valve.

NOTE: Do not operate the selector valve under load.

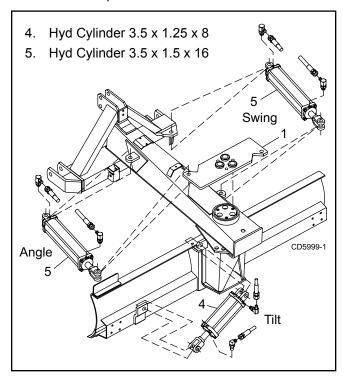


Figure 7. Hydraulic Configuration - Offset

OPERATING TIPS

A WARNING

- Look down and to the rear and make sure area is clear before operating in reverse.
- Do not operate 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.
- Before working underneath, read manual instructions, securely block up, and check stability. Secure blocking prevents equipment from dropping due to hydraulic leak down, hydraulic system failure, or mechanical component failure.

A CAUTION

 Stop power unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.

BACKFILLING

For backfilling ditches or trenches, reverse the blade by rotating counter-clockwise and back push.

LEVELING AND GRADING

Set the blade to the desired position of offset, angle and tilt for leveling and grading.

PRE-OPERATION CHECKLIST

(OWNER'S RESPONSIBILITY)

 Review and follow all safety rules and safety decal instructions on pages 5 through 8.									
 Check that equipment is properly and securely attached to tractor.									
 Check that all safety decals are installed and in good condition. Replace if damaged									
 Check that all hardware and cotter pins are properly installed and secured.									
 Check that all lubrication points are greased.									
 Check that blade cutting edge is in good condition.									
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.

12 Operation

MAN0160 (05/16/2023)

MAN0160_2023-05.indd 12 5/23/23 12:15 PM

OWNER SERVICE

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.
- 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 working underneath, read manual instructions, securely block up, and check stability. Secure blocking prevents equipment from dropping due to hydraulic leak down, hydraulic system failure, or mechanical component failure.
- Never perform service or maintenance with engine running.
- 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.
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.

A CAUTION

 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.

BLADE CUTTING EDGE

To reverse the cutting edge

- 1. Remove the 5/8" plow bolts.
- 2. Remove the cutting edge from the moldboard and reinstall with the sharp edge down.
- **3.** Replace cutting edge when both edges are worn.

LUBRICATION

Weekly

Oil the pivot pins with SAE 30 oil.

8 Hours

Grease optional skid shoes.

BOLTS

- 1. Check bolts periodically to be sure they are tight.
- 2. Replace bolts as needed.

NOTE: Replacement bolts must have the same strength markings on the heads. Refer to bolt torque on page 48.

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.
- 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.
- 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.

MAN0160 (05/16/2023) Owner Service 13

ASSEMBLY

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 working underneath, read manual instructions, securely block up, and check stability. Secure blocking prevents equipment from dropping due to hydraulic leak down, hydraulic system failure, or mechanical component failure.
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.
- 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.

A CAUTION

- 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.
- 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.

DEALER SET-UP INSTRUCTIONS

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

Assembly will be easier if components are aligned and loosely assembled before tightening hardware. Recommended torque values for hardware are located on page 48.

ASSEMBLY TABLE OF CONTENTS

MAIN ASSEMBLY
MANUAL CONFIGURATION
OFFSET LINKAGE - MODELS: M & MT
HYDRAULIC ANGLE KIT - MODELS: MA, SA, TA, AND OPTIONAL KIT 100487019
HYDRAULIC TILT KIT - MODELS: MT & TA
HYDRAULIC OFFSET KIT - MODEL: SA AND OPTIONAL KIT 1004872
HYDRAULIC CONFIGURATION
MODEL H
SELECTOR VALVE KIT 1004873 (OPTIONAL)
OPTIONAL EQUIPMENT - ALL MODELS
PNEUMATIC TAIL WHEEL (OPTIONAL)
SKID SHOE KIT 18296 (OPTIONAL)
END PLATE KIT 22658 (OPTIONAL)
PRE-DELIVERY & DELIVERY CHECKLIST

14 Assembly

MAN0160 (05/16/2023)

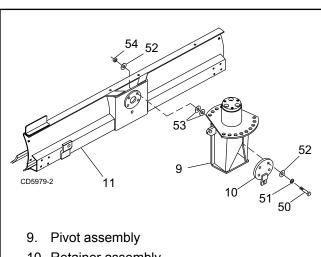
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MAIN ASSEMBLY - ALL MODELS

Attach Blade to Pivot Assembly

Assemble the main portion of the blade before starting on any of the optional configurations.

- 1. Place blade assembly (11) on floor with pivot attachment pointing up.
- Raise the top end approximately 4" (102 mm) above the ground with a wooden block. Place pivot assembly (9) on blade assembly (11).
- Stack two shim washers (53) on each of the four holes in blade. Place retainer assembly (10) on washers.
- **4.** Place washers (52) and lock washers (51) on bolts (50) and insert through retainer (10), washers (53), and pivot attachment (9).
- **5.** Secure by placing washers (52) and nuts (54) on bolts and torque to 300 lbs.-ft (403 N-m).



- 10. Retainer assembly
- 11. RB750 Molboard assembly
- 11. RB850 Molboard assembly
- 50. Screw, HHCS 3/4 NC x 3 GR5
- 51. Washer, Lock 3/4
- 52. Washer, Flat 3/4 Standard
- 53. Washer, Shim .75 x 1.50 x 18ga
- 54. Nut, Hex 3/4 NC

Figure 8. Blade and Pivot Assembly

Attach Boom to Pivot Assembly

- **1.** Grease inside of tube on rear of boom (4).
- 2. Set blade assembly upright. Place a block of wood under pivot assembly to secure.
- 3. Place boom parallel to blade and insert greased tube over post of pivot assembly (9). Rotate boom 90 degrees to lock lip on rear of boom over pivot assembly.
- Place jack stand under boom so boom is in a horizontal position.

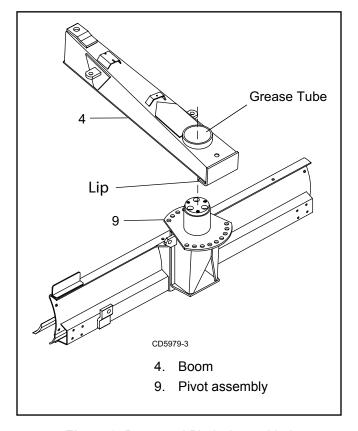


Figure 9. Boom and Blade Assembled

MAN0160 (05/16/2023) Assembly 15

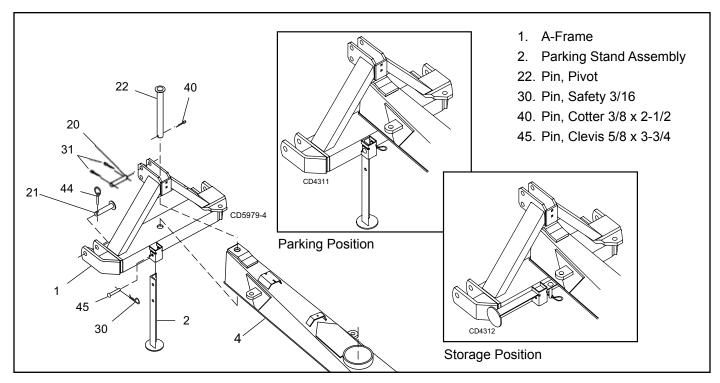


Figure 10. A-Frame to Boom Assembly

Attach A-Frame

Refer to Figure 10.

- **1.** Position A-frame (1) over end of boom and insert pivot pin (22). Secure with cotter pin (40).
- 2. Attach parking stand (2) in parking position as shown in Figure 10. Secure with clevis pin (45) and safety pin (30).

Install Manual Tube

Refer to Figure 11.

- **1.** Place manual tube (3) over holes on right side of A-Frame as shown in Figure 11.
- 2. Secure into position using three cap screws (41), six flat washers (42), (one on each side), and lock nuts (43).

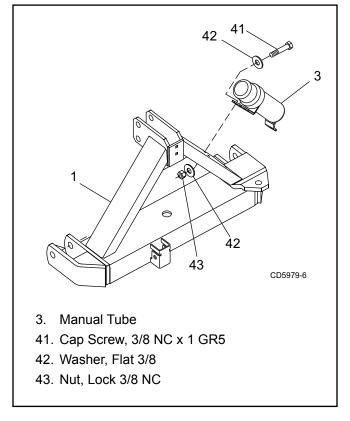


Figure 11. Manual Tube Installation

16 Assembly

MAN0160 (05/16/2023)

Install Slow Moving Vehicle Sign

NOTE: If installing optional hydraulic kits that include double relief valves on Model SA or the complete hydraulic system for Model H, do not install bracket (5, Step 1) at this time. Begin with Step 2.

Refer to Figure 12.

- 1. Place bracket (5) to top of boom and secure with two carriage bolts (34), flat washers (36), lock washers (37), and hex nut (38).
- Attach SMV socket (6) to bracket (5) using two carriage bolts (34), flat washers (36), lock washers (37), and hex nuts (38).
- **3.** Attach SMV sign (8) to SMV sign bracket (7) using two round head screws (32) and nuts (33).
- Insert sign and bracket assembly into socket (6) to display SMV sign.

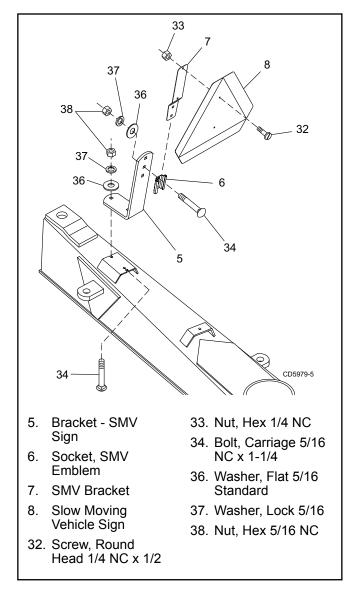


Figure 12. Slow Moving Vehicle Sign Installation

Proceed to page listed below to complete desired blade assembly.

M =	All Manual: Angle, Tilt & Swing	18
MT =	Manual Swing & Angle: Hydraulic Tilt for tractors with at least one hydraulic port	18
MA =	Manual Swing & Tilt: Hydraulic Angle for tractors with at least one hydraulic port	19
SA =	Manual Tilt: Hydraulic Swing & Angle for tractors with at least two hydraulic ports	19
TA =	Manual Swing: Hydraulic Tilt & Angle for tractors with at least two ports	19
Н =	All Hydraulic: Angle, Tilt & Swing for tractors with three hydraulic ports	23

MAN0160 (05/16/2023)

Assembly 17

MANUAL CONFIGURATION

Models: M & MT

Install Offset Linkage

- 1. Model M only Place boom and pivot assembly to desired position. Align holes at bottom of pivot assembly and insert tilt lock pin (1) as shown. Rotate pin to lock into position.
- 2. With boom 90 degrees to the blade, place retaining cap (3) on boom as shown in Figure 13.
- 3. Install three cap screws (12), lock washers (14), and flat washers (13) to secure boom to blade assembly.

NOTE: For model MT, do not install front cap screw, (12) at this time.

- Rotate boom to desired position. Install lock pin assembly (2) through end of boom and pivot assembly. Secure with safety pin (10).
- **5.** Insert inner swing link (4) into outer swing link (5).
- **6.** Attach outer swing link to the A-Frame and insert clevis pin (15). Secure with cotter pin (11).
- 7. Attach inner swing link (4) to the boom and insert clevis pin (15). Secure with cotter pin (11).
- 8. Rotate A-Frame to desired position. Align holes in inner and outer swing links and insert lock pin (16). Secure with safety pin (10).

NOTE: For Model MT, proceed to page 20 for hydraulic tilt cylinder installation instructions.

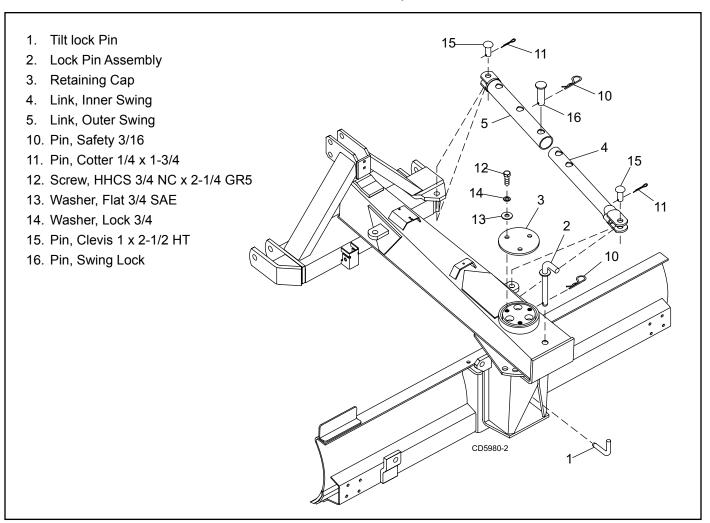


Figure 13. Manual Configuration

18 Assembly

MAN0160 (05/16/2023)

Models: MA, SA, & TA or Optional Hydraulic Angle Kit 1004870

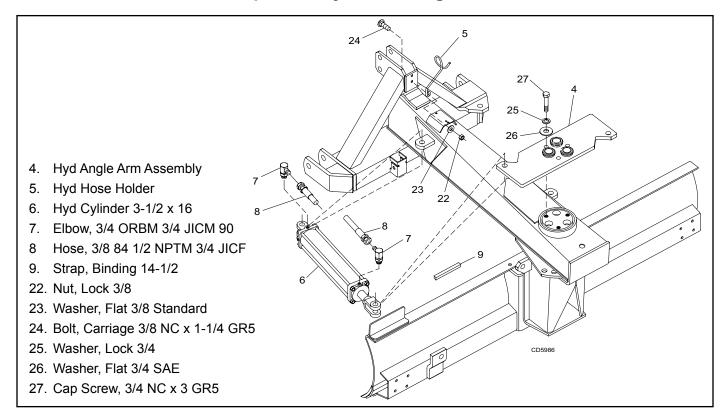


Figure 14. Angle Kit Installation

Install Hydraulic Angle Cylinder

Refer to Figure 14.

- 1. Remove lock pin assembly (2) and safety pin (10) from rear of boom, if previously installed. See Figure 13 on page 18 for lock pin assembly location.
- 2. Remove hardware and retaining cap (3) from top of boom if previously installed. See Figure 13 on page 18 for retaining cap location.
- 3. Place hydraulic angle arm assembly (4) on boom as shown Figure 14.
- **4.** Secure into position using three cap screws (27), lock washers (25), and flat washers (26).
- **5.** Attach hydraulic cylinder (6) to boom and hydraulic angle arm assembly as shown. Secure with pins supplied with the cylinder.
- **6.** Attach hose holder (5) to A-Frame using carriage bolt (24), flat washer (23), and lock nut (22).
- Install adjustable elbows (7) and hoses (8) (Models MA and TA) to cylinder.

NOTE: Do not install 84" hoses (8) if Hydraulic Offset cylinder is to be installed.

8. Route hoses as shown in Figure 15.

NOTE: For model SA, Proceed to page 22 for hydraulic offset cylinder and relief valve installation instructions.

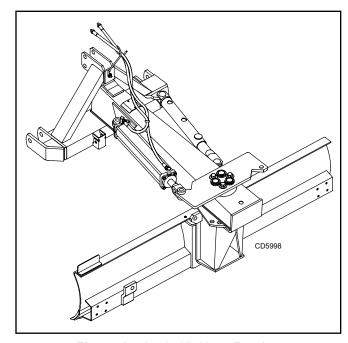


Figure 15. Angle Kit Hose Routing

MAN0160 (05/16/2023) Assembly 19

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Models: MT & TA

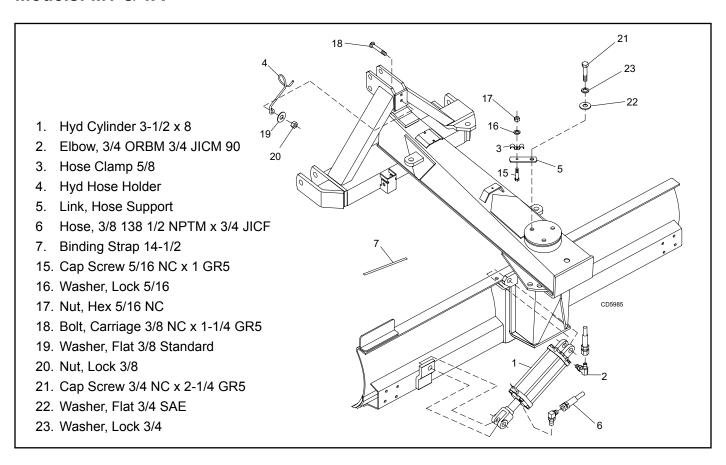


Figure 16. Tilt Kit Installation with Manual Angle Control

Install Hydraulic Tilt Kit 1004871

Refer to Figure 16.

NOTE: Remove tilt lock pin (1) before installing hydraulic tilt kit. See Figure 13 on page 18 for lock pin location

- 1. Attach hydraulic cylinder (1) to blade assembly and pivot assembly as shown. Secure with pins supplied with the cylinder.
- 2. Install adjustable elbows (2) and hoses (6) to cylinder.
- 3. Attach hose holder (4) to A-Frame using carriage bolt (18), flat washer (19), and lock nut (20). For models with hydraulic angle (TA) proceed to page 21 for hose routing.
- **4.** Attach hose clamp (3) to hose support (5) using cap screw (15), lock washer (16), and hex nut (17). Do not tighten at this time.
- **5.** Remove cap screw (21), lock washer (23), and flat washer (22) from forward position on retaining cap as shown.
- **6.** Position hose support (5) over hole and reinstall hardware.
- 7. Route hoses as shown in Figure 17.

- **8.** Position hose support (5) and tighten hardware.
- Place hoses in hose clamp (3) and tighten hardware. Leave adequate slack in hoses to allow for tilt and angling of blade.

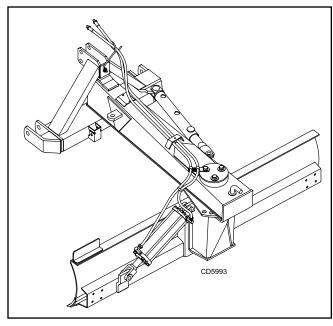


Figure 17. Tilt Kit Hose Routing

20 Assembly

MAN0160 (05/16/2023)

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Model: TA

Install Hydraulic Tilt Kit

NOTE: If Rear Blade is equipped with hydraulic angle cylinder, route tilt kit hydraulic hoses as shown in Figure 18.

- Attach hose clamp (3) to boom as shown in Figure 19.
- 2. Position tape marked on hoses (6) at hose clamp (3).
- **3.** Secure hose clamp (3) with cap screw (15), lock washer (16), and hex nut (17).

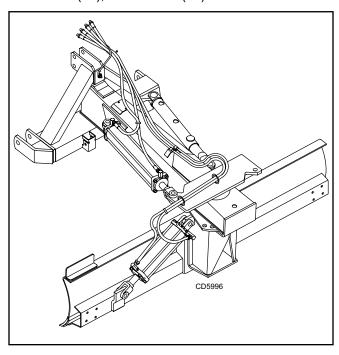


Figure 18. Hydraulic Tilt and Angle Kit Hose Routing

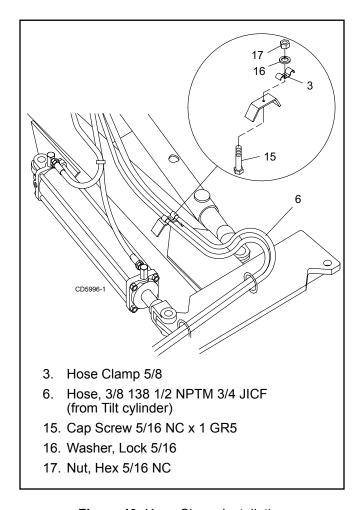


Figure 19. Hose Clamp Installation

Model: SA or Optional Offset Kit 1004872

- 1. Bracket SMV Sign
- 2. Valve Double Relief 1600 psi
- 3. Hyd Cylinder 3-1/2 x 16
- 4. Elbow, 3/4 ORBM 3/4 JICM 90
- 5. Elbow, 3/4 JICM x 3/4 ORMB 45
- 6. Hose, 3/8 18 3/4 ORBM 3/4 JICF
- 7. Hose, 3/8 24 3/4 ORBM 3/4 JICF
- 8. Hose, 3/8 28 3/4 ORBM 3/4 JICF
- 9. Hose, 3/8 34 3/4 ORBM 3/4 JICF
- 10. Hose, 3/8 66 1/2 NPTM 3/4 JICF
- 10. 1103C, 5/0 00 1/2 N1 1W 5/4 0
- 11. Binding Strap, 14-1/2
- 21. Cap Screw, 5/16 NC x 5-1/2 GR5
- 22. Washer, Flat 5/16 Standard
- 23. Washer, Lock 5/16
- 24. Nut, Hex 5/16 NC

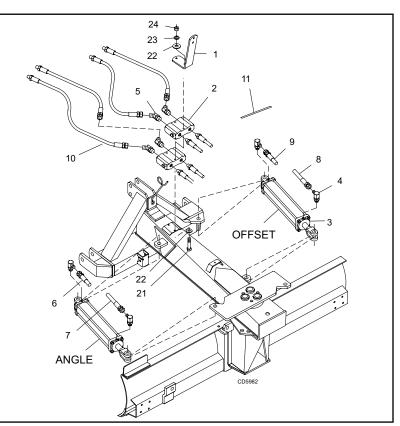


Figure 20. Offset Kit Installation

Install Hydraulic Offset Cylinder

Refer to Figure 20.

NOTE: Hydraulic angle cylinder must be installed with this offset kit.

- Install hydraulic angle kit as instructed on page 19. Remove 84" hoses from angle cylinder if previously installed.
- 2. Attach hydraulic cylinder (3) between A-Frame and boom as shown in Figure 20. Secure with pins supplied with the cylinder.
- 3. Install adjustable elbows (4) to cylinder (3).
- Remove bracket (1) and hardware if previously installed.
- Install 45–degree elbows (5) into relief valves (2). Position elbows outward as shown.
- **6.** Attach both valve blocks (2) and bracket (1) to boom using two cap screws (21), four flat washers (22), two lock washers (23), and hex nuts (24).
- 7. Attach hoses (10) to elbows (5) as shown.
- **8.** Attach hoses (8 & 9) to back side of relief valves (2) and offset cylinder (3) as shown in Figure 21.
- **9.** Attach hoses (6 & 7) to back of relief valves (2) and angle cylinder as shown in Figure 21.

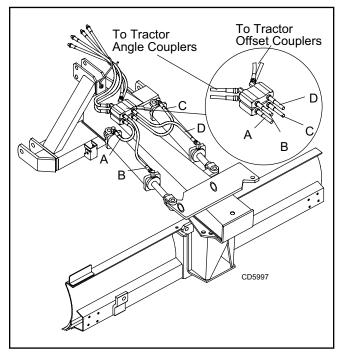


Figure 21. Hose Connection

22 Assembly

MAN0160 (05/16/2023)

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HYDRAULIC CONFIGURATION

Model: H

Install Hydraulic Cylinders

Refer to Figure 22.

- 1. Place hydraulic angle arm (1) on boom as shown.
- 2. Secure into position using three cap screws (33), lock washers (35), and flat washers (34).
- **3.** Attach hydraulic angle cylinder (5) to boom and hydraulic angle arm assembly as shown. Secure with pins supplied with the cylinder.
- **4.** Attach hydraulic offset cylinder (5) to A-Frame and boom as shown. Secure with pins supplied with the cylinder.

- Attach hydraulic tilt cylinder (4) to pivot assembly and blade as shown. Secure with pins supplied with the cylinder.
- Install two adjustable elbows (6) to each of the hydraulic cylinders as shown.
- 7. Install two hoses (15) to the hydraulic tilt cylinder.

NOTE: Do not install angle and offset cylinders hoses at this time.

8. Attach hose holder (9) to back side of A-Frame as shown. Secure using one carriage bolt (28), flat washer (29), and lock nut (30).

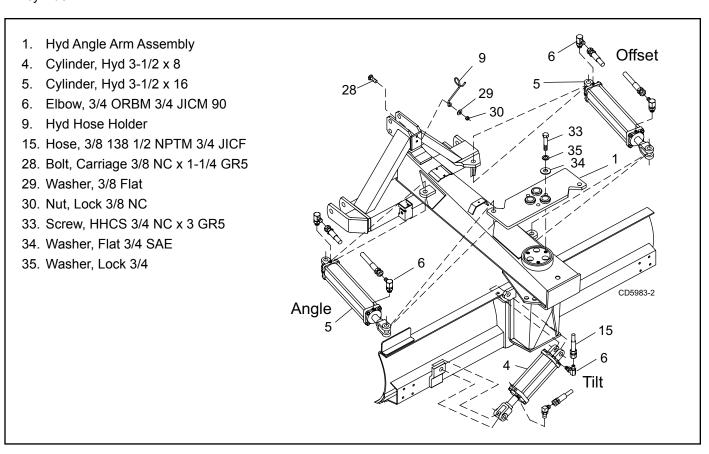


Figure 22. Hydraulic Cylinder Installation

MAN0160 (05/16/2023) Assembly 23

Install Relief Valves and Hoses

- **1.** Install 45–degree elbows (5) into relief valves (2). Position elbows outward as shown in Figure 23.
- 2. Attach both valve blocks (2) and SMV bracket (1) to boom using two cap screws (21), four flat washers (22), two lock washers (23), and hex nuts (24).
- 3. Attach hoses (10) to elbows (5) as shown.
- **4.** Attach hoses (8 & 9) to back side of relief valves (2) and offset cylinder (3) as shown.
- **5.** Attach hoses (6 & 7) to back of relief valves (2) and angle cylinder as shown in Figure 23.
- Attach hose clamp (12) to boom as shown in Figure 25.
- 7. Position tape marked on hoses (20) at hose clamp (12).
- **8.** Secure hose clamp (12) with cap screw (30), lock washer (23), and hex nut (24).
- 9. Route hoses as shown in Figure 24.

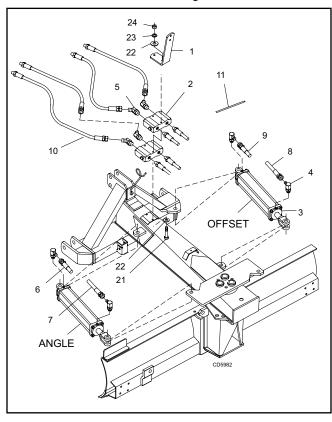
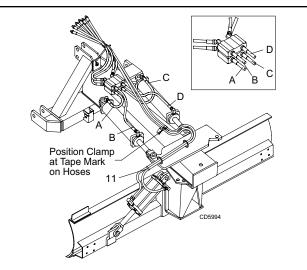
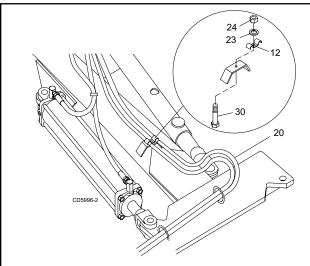


Figure 23. Relief Valve and Hose Installation



- Bracket SMV Sign
- 2. Valve Double Relief 1600 psi
- 5. Elbow, Hyd 3/4 JICM x 3/4 ORMB 45°
- 6. Hose, 3/8 18 3/4ORBM 3/4 JICF
- 7. Hose, 3/8 24 3/4ORBM 3/4 JICF
- 8. Hose, 3/8 28 3/4ORBM 3/4 JICF
- 9. Hose, 3/8 34 3/4ORBM 3/4 JICF
- 10. Hose, 3/8 66 1/2 NPTM 3/4 JICF
- 11. Binding Strap, 14-1/2

Figure 24. RB750H/RB850H Hose Routing



- 12. Clamp, Feedline Hose 5/8
- 20. Hose, 3/8 138 1/2 NPTM 3/4JICF (from Tilt cylinder)
- 21. Cap Screw, 5/16 NC x 5-1/2 GR5
- 22. Washer, Flat 5/16 Standard
- 23. Washer, Lock 5/16
- 24. Nut, Hex 5/16 NC
- 30. Cap Screw, 5/16 NC x 1 GR5

Figure 25. Hose Clamp Installation

24 Assembly

MAN0160 (05/16/2023)

Install Selector Valve Kit 1004873 (Optional)

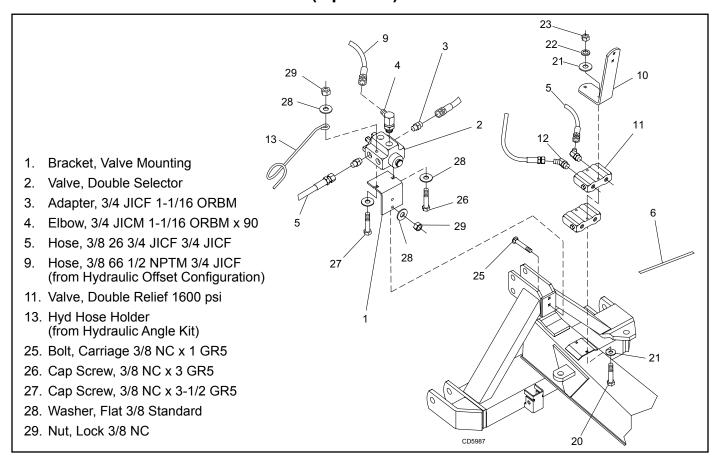


Figure 26. Selector Valve Kit Installation

Refer to Figure 26.

NOTE: Double relief valves must be installed for use with this option.

- **1.** Remove hoses on the tractor side of double relief valves. Two of these hoses will be reused to complete the selector valve installation.
- 2. Remove hose holder (13) and hardware from the A-Frame if previously installed during angle kit assembly.
- 3. Attach double selector valve (2) to valve mounting bracket (1). Secure with cap screw (26), cap screw (27), four flat washers (28), and lock nuts (29).

NOTE: Cap screw (27) is 3-1/2 inches long and used for attaching hose holder (13) to the top of the selector valve as shown in Figure 26.

Hose holder can be positioned on either side of the selector valve, depending on the location of the tractor remote couplers.

- **4.** Attach selector valve and bracket assembly to the A-Frame. Secure in place using two carriage bolts (25), flat washers (28), and lock nuts (29).
- 5. Install four adapter fittings (3) in the side ports of the selector valve (2).

- **6.** Install four 26" hoses (5) between adapter fittings (3) in side ports of the selector valve (2) and the relief valve (11). See Figure 27 for hose connections.
- Install two elbows (4) into the top ports of the selector valve.
- 8. Install two 66" hoses (9) into elbows (4) on the top of the selector valve.

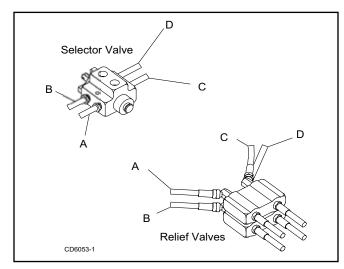


Figure 27. Selector Valve Hose Connections

MAN0160 (05/16/2023) Assembly 25

Install Selector Valve Kit 1004873 (Optional) Cont'd

- 9. Attach handle kit (1004296) to selector valve.
- 10. Route hoses as shown in Figure 29.

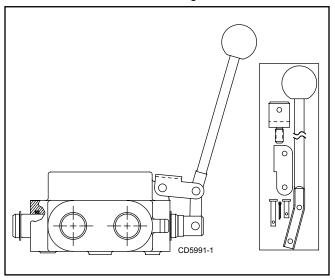


Figure 28. 1004296 Handle Kit Installed

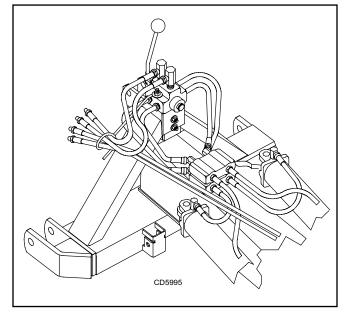


Figure 29. Selector Valve Hose Routing

26 Assembly

MAN0160 (05/16/2023)

OPTIONAL EQUIPMENT - ALL MODELS

Install Pneumatic Tail Wheel W28775 (Optional)

IMPORTANT

When grading with tail wheel attached, do not attach upper link of tractor 3-point hitch to blade without using floating links (2 & 3). Without floating links, equipment damage may result and void warranty.

Refer to Figure 30.

The tail wheel is very helpful for finish grading and leveling work. The ratchet controls the approximate cutting height.

- 1. Remove top link of tractor 3-point hitch.
- 2. Attach float links (2 & 3) and sleeve (4) to inside of the top holes of A-Frame. 3/4 dia. welded pin on side of float links must face outward and be located on the bottom end.

NOTE: Do not use with Category 2 quick-attach couplers.

- 3. Secure into position with top link pin.
- **4.** Attach bracket (9) to boom assembly with clevis pin (10), two flat washers (12) and two cotter pins (13). Secure together with cap screw (14).
- 5. Attach tail wheel arm (15) and yoke (24) to bracket (9) with clevis pin (11), washers (26), and cotter pin (13).
- **6.** Attach ratchet (8) between bracket (9) and tail wheel arm (15). Secure with pins supplied with ratchet.
- **7.** Attach top link to float links (2 & 3) using clevis pin (5), two SAE flat washers (6), and cotter pins (7).

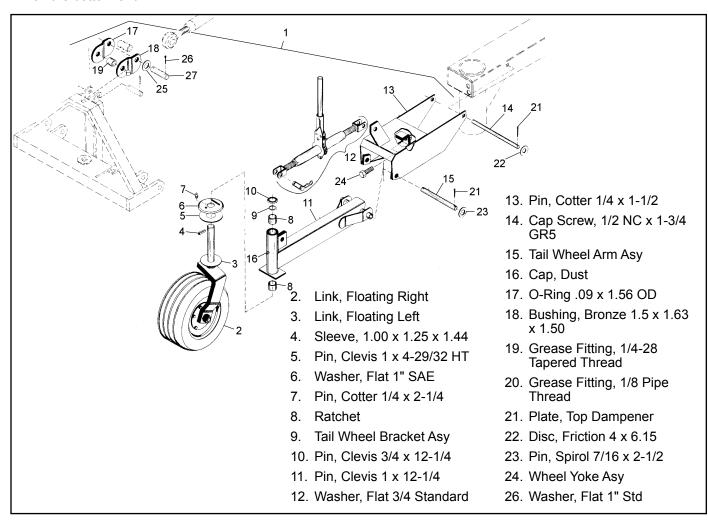


Figure 30. Pneumatic Tail Wheel Installation

MAN0160 (05/16/2023) Assembly 27

Install Skid Shoe Kit 18296 (Optional)

- 1. Attach the bracket (1) to the blade with four cap screws (8) and lock nuts (9) as shown in Figure 31. Torque hardware to 85 lbs.-ft (115 N-m).
- 2. Insert skid assembly (3) into tube of bracket (1) and secure with klik pin (4).
- **3.** The cutting edge height is controlled by adjusting the skid shoes with a combination of spacers (2) and washers (10).
- **4.** To raise the cutting edge, place spacer(s) (2) and washer(s) (10) under skid shoe bracket (1).

To lower the cutting edge, place spacer(s) (2) and washer(s) (10) on top of skid shoe bracket (1).

NOTE: Before using, make sure that skid shoes rotate freely. If not, work them loose to avoid premature wear. Rotating shoes will last longer.

Grease at assembly and after every eight hours of use.

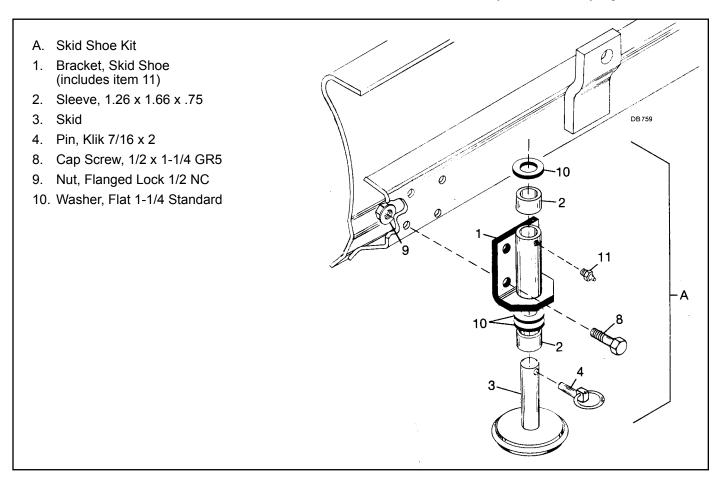


Figure 31. Skid Shoe Installation

28 Assembly

MAN0160 (05/16/2023)

Install End Plate Kit 22658 (Optional)

- 1. Attach end plates (3) to each end of blade assembly. Use two carriage bolts (4) and flanged lock nuts (5) to each plate.
- 2. Torque to 85 lbs.-ft (115 N-m).

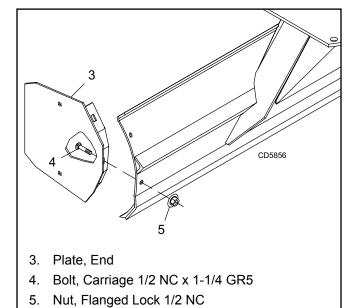


Figure 32. End Plate Installation

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 checklists 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 all bolts to be sure they are properly torqued.

Check that all cotter pins and safety pins are properly installed. Replace if damaged.

Check and grease all lubrication points.

DEALER DELIVERY CHECKLIST (DEALER'S RESPONSIBILITY)

	Show customer now to make adjustments.
	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.
	Instruct customer how to lubricate and explain importance of lubrication.
	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 that when equipment is transported on a road or highway, a Slow Moving Vehicle (SMV) sign should be used to provide adequate warning to operators of other vehicles.

30 Dealer Checklists

MAN0160 (05/16/2023)



PARTS INDEX

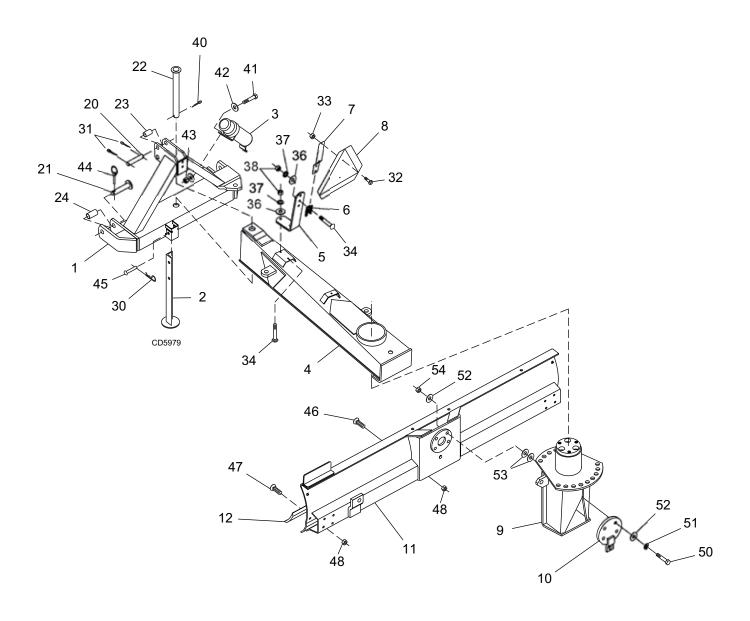
REAR BLADES

RB750-4 RB750-4H RB850-4 RB850-4H

MAIN ASSEMBLY	-33
MODELS: M & MT	34
MODELS: MA, SA, & TA	35
MODEL: H	-37
HYDRAULIC TILT KIT 1004871 FOR MODELS: MT & TA	38
HYDRAULIC OFFSET KIT 1004872 FOR MODEL: SA	39
HYDRAULIC ANGLE KIT 1004870	40
SELECTOR VALVE KIT 1004873	41
SELECTOR VALVE 1004261	42
RELIEF VALVE 1004260	42
HYDRAULIC CYLINDER ASSEMBLY	43
PNEUMATIC TAIL WHEEL ASSEMBLY	44
WHEEL HUB, TIRE & WHEEL ASSEMBLY	45
SKID SHOE KIT 18296	46
END PLATE KIT 22658	46

MAN0160 (05/16/2023) Parts 31

RB750-4 & RB850-4 MAIN ASSEMBLY



32 Parts MAN0160 (05/16/2023)

MAN0160_2023-05.indd 32 5/23/23 12:15 PM

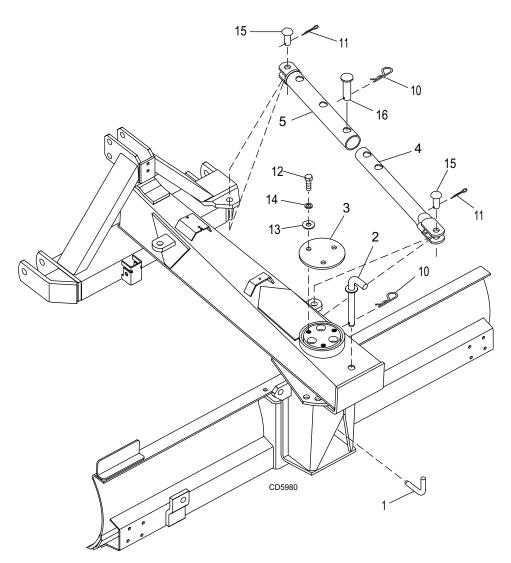
RB750-4 & RB850-4 MAIN ASSEMBLY PARTS LIST

REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	1005001	1	A-Frame with Decals	37	2472	4*	Washer, 5/16 Lock
2	28418RP	1	Parking Stand Assembly	38	4529	4*	Nut, Hex 5/16 NC GR5
3	1003828	1	Manual Tube	40	744	1*	3/8 x 2-1/2 Cotter Pin
4	1005002	1	Boom with Decals	41	839	3*	Cap screw, 3/8 NC x 1 GR5
5	1004262RP	1	Bracket - SMV Sign	42	565	6*	Washer, 3/8 Flat
6	62484	1	Socket SMV Emblem	43	6698	3*	Nut, Lock 3/8 NC
7	1004251	1	SMV Bracket	44	27542	2	7/16 x 11/32 Klik Pin HT
8	24611	1	Slow Moving Vehicle Sign	45	8099	1	Pin, Clevis 5/8 x 3-3/4 HT
9	28363RP	1	Pivot Assembly	46	26920	2	Bolt, Plow 5/8 NC x 1-3/4 GR5
10	27549RP	1	Retainer Assembly	47	21261	6	Bolt, 5/8 NC x 2.0 Plow GR8
11	1004857	1	RB750-4 Moldboard Assembly	48	6239	8*	Nut, Lock 5/8 NC
			or	50	14334	4*	Cap screw, 3/4 NC x 3 GR5
11	1004858	1	RB850-4 Moldboard Assembly	51	2522	4*	Washer, 3/4 Lock
12	25263	1	Edge, Cutting .50 x 6.0 x 83	52	1257	8*	Washer, 3/4 Flat
			or	53	11036	8	Washer, 3/4 x 1-1/2 x 18 ga
12	25270	1	Edge, Cutting .50 x 6.0 x 95	54	1450	4*	Nut, Hex 3/4 NC
20	26148	1	Pin, Clevis 1 x 4-29/32 HT	NI/O			Decal, Model RB750
21	27573	2	Hitch Pin 1-1/8	N/S			(discontinued Order Woods Decal, 4225)
22	27546	1	Pivot Pin	N/S	1004256		Decal, Model Decal RB850
23†	14695	1	Sleeve, 1 x 1-1/4 x 2				
24†	26100	2	Sleeve, 1-1/8 x 1-7/16 x 2-5/8			*	Standard Hardware, obtain locally
30	18270	1*	3/16 Safety Pin			N/S	Not Shown
31	923	4*	1/4 x 1-3/4 Cotter Pin				Optional sleeves for Category
32	1282	2*	Screw, 1/4 NC x 1/2			†	2 Quick Hitch and Category 3 three point hitch; order bushing
33	5288	2*	Nut, 1/4 NC				kit 18295
34	14458	4*	Bolt, Carriage 5/16 NC x 1-1/4				lls, see pages 7 and 8.
36	4378	4*	Washer, 5/16 Flat	Order decals separately.			

Order decais separately.

MAN0160 (05/16/2023) Parts 33

RB750-4 & RB850-4 - MODELS: M & MT



REF	PART	QTY	DESCRIPTION
1	27543	1	Tilt Lock Pin
2	27544	1	Lock Pin Assembly
3	28360RP	1	Retaining Cap
4	27552RP	1	Swing Link Inner
5	27555RP	1	Swing Link Outer
10	18270	2*	3/16 Safety Pin
11	923	2*	1/4 x 1-3/4 Cotter Pin
12	13759	3*	Cap Screw, 3/4 NC x 2-1/4 GR5
13	2864	3*	Washer, 3/4 SAE Flat
14	2522	3*	Washer, 3/4 Lock
15	W8341	2	Pin, Clevis 1 x 2-1/2 HT
16	26446	1	Lock Pin

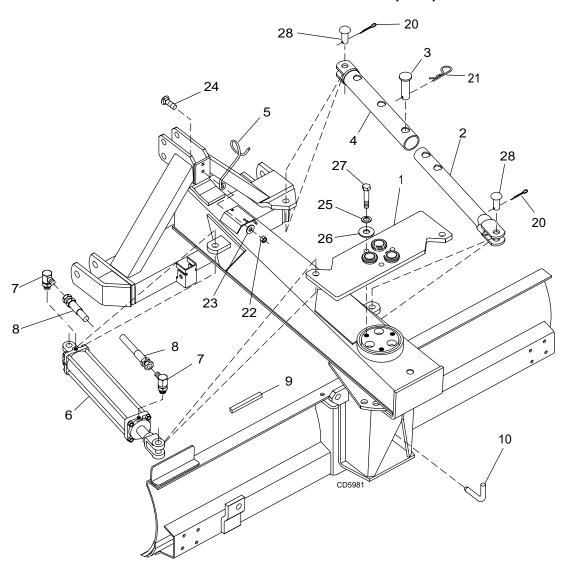
^{*} Standard Hardware, obtain locally

For Model **MT** proceed to page 38 for Hydraulic Tilt Kit Parts List.

34 Parts MAN0160 (05/16/2023)

MAN0160_2023-05.indd 34 5/23/23 12:15 PM

RB750-4 & RB850-4 MODELS: MA, SA, & TA



REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	27599RP	1	Hydraulic Angle Arm Assembly	20	923	4*	1/4 x 1-3/4 Cotter Pin
2	27552RP	1	Swing Link, Inner	21	18270	2*	3/16 Safety Pin
3	26446	1	Lock Pin	22	6698	1*	Nut, Lock 3/8 NC
4	27555RP	1	Swing Link, Outer	23	565	1*	Washer, 3/8 Flat
5	3443	1	Hyd Hose Holder	24	20973	1*	Bolt, Carriage 3/8
6	597277	1	Hyd Cylinder 3.5 x 1.50 x 16.0				NC x 1-1/4 GR5
7	316004	2	Elbow, 3/4 ORBM 3/4 JICM 90°	25	2522	3*	Washer, 3/4 Lock
8	1004284	2	Hose, 3/8 84 1/2 NPTM 3/4 JICF	26	2864	3*	Washer, 3/4 SAE Flat
O	1004204	2	1105e, 3/0 04 1/2 NF 1W 3/4 31CF	27	14334	3*	Cap Screw, 3/4 NC x 3 GR5
9	W8641	3*	Binding Strap, 14-1/2	- -		-	,
10	27543	1	Tilt Lock Pin	28	W8341	2	Pin Clevis, 1 x 2-1/2 HT

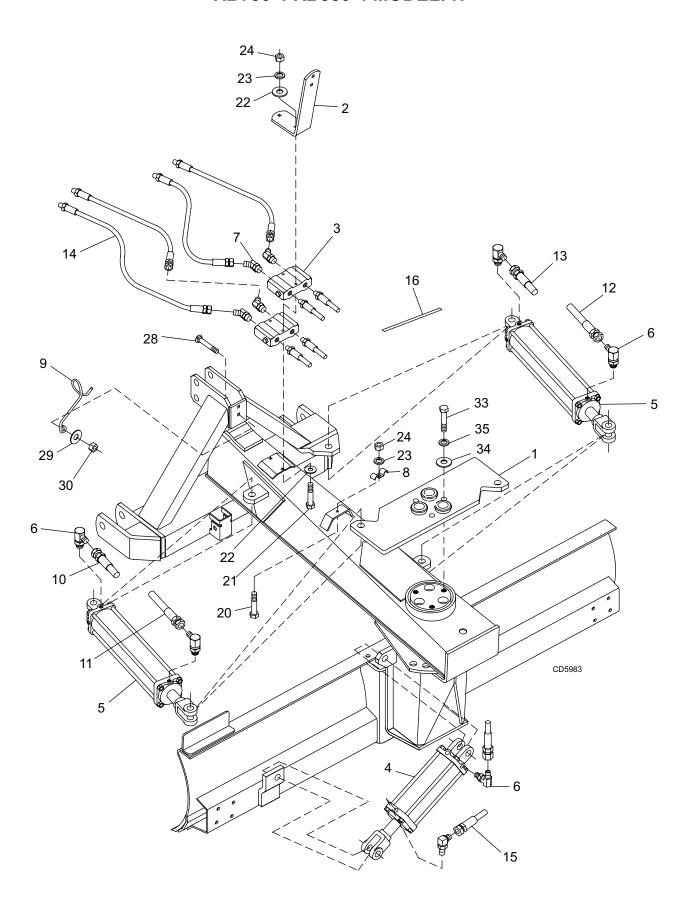
Standard Hardware, Obtain Locally

For Model **TA** proceed to page 38 for Hydraulic Tilt Kit Parts list. For Model **SA** proceed To page 39 For Hydraulic Offset Parts List.

MAN0160 (05/16/2023) Parts 35

MAN0160_2023-05.indd 35 5/23/23 12:15 PM

RB750-4 RB850-4 MODEL: H



36 *Parts* MAN0160 (05/16/2023)

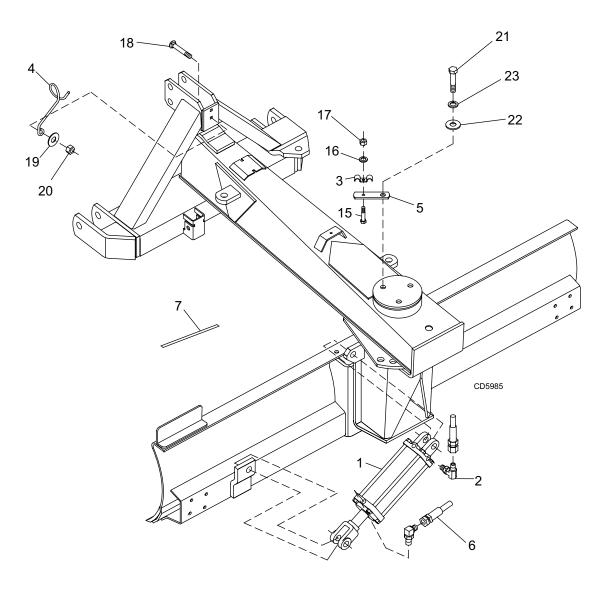
MAN0160_2023-05.indd 36 5/23/23 12:15 PM

RB750-4 & RB850-4 MODEL: H - PARTS LIST

REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	27599RP	1	Hyd Angle Arm Assembly	15	1004285	2	Hose, 3/8 138 1/2 NPTM 3/4 JICF
2	1004262RP	1	Bracket - SMV Sign (From Main Asy)	16	W8641	6*	Binding Strap, 14-1/2
3	1004260	2	Valve Double Relief 1600psi	20	14562	1*	Cap Screw, 5/16 NC x 1 GR5
4	597274	1	Hyd Cylinder 3.5 x 1.25 x 8.0	21	W300107	2*	Cap Screw, 5/16
5	597277	2	Hyd Cylinder 3.5 x 1.50 x 16.0	22	4378	4*	NC x 5-1/2 GR5 Washer, 5/16 Flat
6	316004	6	Elbow, 3/4 ORBM	23	2472	5*	Washer, 5/16 Lock
U	310004	U	3/4 JICM 90°	24	4529	5*	Nut, Hex 5/16 NC GR5
7	1004288	4	Elbow, 3/4 ORBM 3/4 JICM 45°	28	20973	1*	Bolt, Carriage 3/8 NC x 1-1/4 GR5
8	56	1	Hose Clamp 5/8	29	565	1*	Washer, 3/8 Flat
9	3443	1	Hyd Hose Holder	30	6698	1*	Nut, Lock 3/8 NC
10	360181	1	Hose, 3/8 18 3/4 ORBM 3/4 JICF	33	14334	3*	Cap Screw, 3/4 NC x 3 GR5
11	260202	1	Hose, 3/8 24 3/4ORBM	34	2864	3*	Washer, 3/4 SAE Flat
11	360203	ı	3/4 JICF	35	2522	3*	Washer, 3/4 Lock
12	1004286	1	Hose, 3/8 28 3/4 ORBM 3/4 JICF				Oleve In all I and a second
13	1004287	1	Hose, 3/8 34 3/4 ORBM 3/4 JICF			*	Standard Hardware, obtain locally
14	1004283	4	Hose, 3/8 66 1/2 NPTM 3/4 JICF				

MAN0160 (05/16/2023) Parts 37

RB750-4 & RB850-4 HYDRAULIC TILT KIT 1004871 FOR MODELS: MT & TA

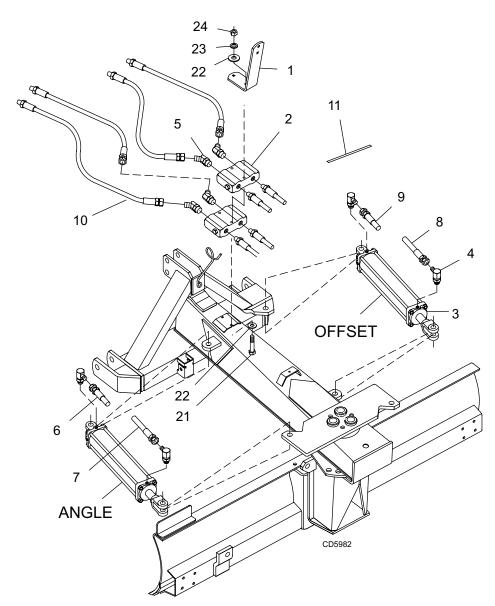


REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	597274	1	Hyd Cylinder 3.5 x 1.25 x 8.0	19	565	1*	Washer, 3/8 Flat
2	316004	2	Elbow, 3/4 ORBM 3/4 JICM 90°	20	6698	1*	Nut, Lock 3/8 NC
3	56	1	Hose Clamp 5/8	21#	13759	3*	Cap Screw, 3/4 NC x 2-1/4 GR5
4	3443	1	Hyd Hose Holder	22#	2864	3*	Washer, 3/4 SAE Flat
5†	1004832	1	Link - Hose Support	23#	2522	3*	Washer, 3/4 Lock
6	1004285	2	Hose, 3/8 138 1/2 NPTM 3/4 JICF			*	Standard Hardware, obtain locally
7	W8641	3*	Binding Strap, 14-1/2				Not used if blade has
15	14562	1*	Cap Screw, 5/16 NC x 1 GR5			†	hydraulic angle option.
16	2472	5*	Washer, 5/16 Lock				Not included in this kit; from
17	4529	5*	Nut, Hex 5/16 NC GR5			#	blade with mechanical angle adjustment configuration.
18	20973	1*	Bolt, Carriage 3/8 NC x 1-1/4 GR5				adjustment sormgulation.

38 *Parts* MAN0160 (05/16/2023)

MAN0160_2023-05.indd 38 5/23/23 12:15 PM

RB750-4 & RB850-4 HYDRAULIC OFFSET KIT 1004872 FOR MODEL: SA

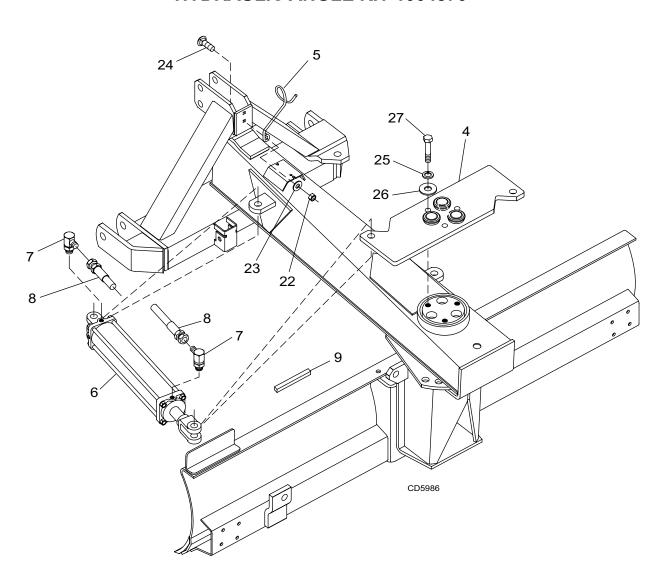


REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	1004262RP	1	Bracket - SMV Sign (From Main Asy)	10	1004283	4	Hose, 3/8 66 1/2 NPTM 3/4 JICF
2	1004260	2	Valve Double Relief 1600 psi	11	W8641	6*	Binding Strap, 14-1/2
3#	597277	1	Hyd Cylinder 3.5 x 1.50 x 16.0	21	W300107	2*	Cap Screw, 5/16 NC x 5-1/2 GR5
4#	316004	6	Elbow, 3/4 ORBM	22#	4378	2*	Washer, 5/16 Flat
	0.000.	Ü	3/4 JICM 90°	23#	2472	2*	Washer, 5/16 Lock
5	1004288	4	Elbow, 3/4 ORBM 3/4 JICM 45°	24#	4529	2*	Nut, Hex 5/16 NC GR5
6	360181	1	Hose, 3/8 18 3/4 ORBM 3/4 JICF			*	Standard Hardware,
7	360203	1	Hose, 3/8 24 3/4				obtain locally
,	300203	'	ORBM 3/4 JICF				Quantity shown is for this
8	1004286	1	Hose, 3/8 28 3/4 ORBM 3/4 JICF			#	kit. Additional items come from Model MA or Hydraulic Angle Kit 1004870.
9	1004287	1	Hose, 3/8 34 3/4 ORBM 3/4 JICF				7.1.1910 1.1.1 100 107 0.

MAN0160 (05/16/2023) Parts 39

MAN0160_2023-05.indd 39 5/23/23 12:15 PM

HYDRAULIC ANGLE KIT 1004870

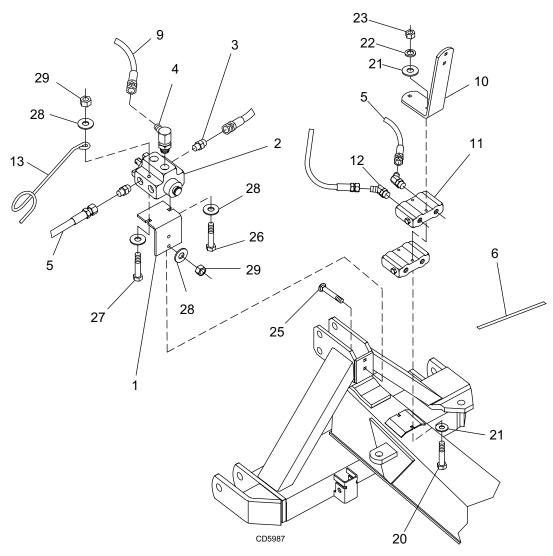


REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
4	27599RP	1	Hyd Angle Arm Assembly	23	565	1*	Washer, 3/8 Flat
5	3443	1	Hyd Hose Holder	24	20973	1*	Bolt, Carriage 3/8 NC x 1-1/4 GR5
6	597277	1	Hyd Cylinder 3.5 x 1.50 x 16.0	25	2522	3*	Washer, 3/4 Lock
7	316004	2	Elbow, 3/4 ORBM	26	2864	3*	Washer, 3/4 SAE Flat
,	010004	2	3/4 JICM 90°	27	14334	3*	Cap Screw, 3/4 NC x 3 GR5
8	1004284	2	Hose 3/8 84 1/2 NPTM 3/4 JICF				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
9	W8641	3*	Binding Strap, 14-1/2			*	Standard Hardware, obtain locally
22	6698	1*	Nut, Lock 3/8 NC				Obtain locally

40 Parts MAN0160 (05/16/2023)

MAN0160_2023-05.indd 40 5/23/23 12:15 PM

SELECTOR VALVE KIT 1004873

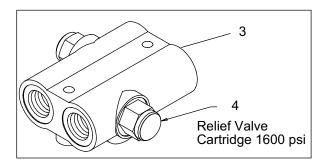


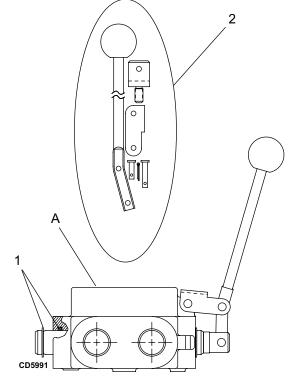
REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	27598	1	Valve, Mounting Bracket	21#	4378	4*	Washer, 5/16 Flat
2	1004261	1	Valve, Double Selector	22#	2472	5*	Washer, 5/16 Lock
3	316017	4	Adapter, 3/4 JICM 1-1/16 ORBM	23#	4529	5*	Nut, Hex 5/16 NC GR5
4	W37501	2	Elbow, 3/4 JICM 1-1/16	25	6697	2*	Bolt, Carriage 3/8 NC x 1 GR5
7	**********	_	ORBM x 90°	26	7747	1*	Cap Screw, 3/8 NC x 3 GR5
5	1004281	4	Hose, 3/8 26 3/4 JICF 3/4 JICF	27	31138	1*	Cap Screw, 3/8 NC x 3-1/2 GR5
6	W8641	3*	Binding Strap, 14-1/2	28	565	1*	Washer, 3/8 Flat
9#	1004283	2	Hose, 3/8 66 1/2 NPTM 3/4 JICF	29	6698	1*	Nut, Lock 3/8 NC
10#	1004262RP	1	Bracket - SMV Sign				
11#	1004260	2	Valve, Double Relief 1600psi			*	Standard Hardware, obtain locally
12#	1004288	4	Elbow, 3/4 ORBM 3/4 JICM 45°			#	Not included in this kit. Included in Hydraulic Angle
13#	3443	1	Hyd Hose Holder			π	and Offset configuration.
20#	W300107	2*	Cap Screw, 5/16 NC x 5-1/2 GR5				

MAN0160 (05/16/2023) Parts 41

MAN0160_2023-05.indd 41 5/23/23 12:15 PM

SELECTOR VALVE 1004261 RELIEF VALVE 1004260



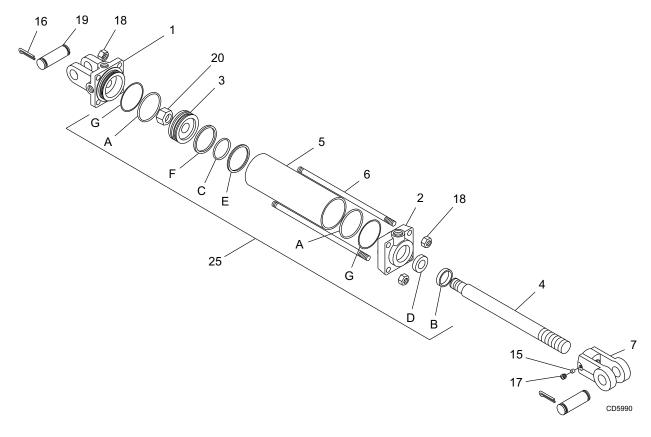


REF A	PART 1004261	QTY	DESCRIPTION Valve, Double Selector
1	1004295	1	Seal kit, Double Selector Valve
2	1004296	1	Kit, Selector Valve Handle
3	1004260	1	Valve, Hyd Double Relief 1600 psi
4	1004297	1	Relief Valve Cartridge, 1600 psi

42 Parts MAN0160 (05/16/2023)

MAN0160_2023-05.indd 42 5/23/23 12:15 PM

HYDRAULIC CYLINDER ASSEMBLY & PARTS LIST

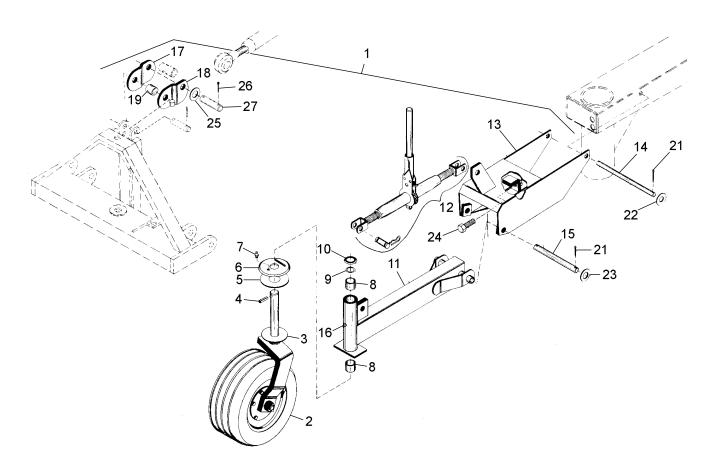


REF	PART	QTY	DESCRIPTION	REI	F	PART	QTY	DESCRIPTION
	597274		Cylinder, Hyd 3-1/2 x 8 (Tilt) (1003196 no longer available)	25		1005000		Seal Kit (for 1003196 and 1003198)
	597277		Cylinder, Hyd 3-1/2 x 16 (Angle - Offset) (1003198 no longer available)	OR				(Includes items A - G) Seal Kit (for Cylinder 597274)
1	N/S	1	Clevis Cap	25		600250		(Includes items A-G)
2	N/S	1	Rod Cap	OR	2			
3	N/S	1	Piston, 3.50 OD	25		600382		Seal Kit (for Cylinder 597277) (Includes items A-G)
4	N/S	1	Rod, 1.25 OD (for 1003196) or			efore orderi		l kits, check part number
4	N/S	1	Rod, 1.50 OD (for 1003198)	Α			2	O-Ring
5	N/S	1	Tube	В			1	Rod Wiper
6	N/S	4	Tie Rod	С			1	O-Ring (Piston Seal Expander)
7	N/S	1	Rod, Clevis	D			1	Rod Seal
15	N/S	1	Nylon Thread Patch	E			1	Piston Seal
17		1*	Screw, Set 3/8 NC x 1/2 (Torque to 20 lbsft.)	- F			2	Piston Wear Ring
18	N/S	8*	Nut, Hex 5/8 UNF (Torque to 160 lbsft.)	G			2	Backup Washer
19	1631	2	Pin, Clevis				*	Standard Hardware,
20	N/S	1*	Nut, Lock 1-14 UNS					obtain locally
_5	14/0	•	(Torque to 300 lbsft.)				N/S	Not Serviced Separately

MAN0160 (05/16/2023) Parts 43

MAN0160_2023-05.indd 43 5/23/23 12:15 PM

PNEUMATIC TAIL WHEEL ASSEMBLY

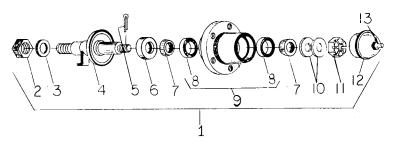


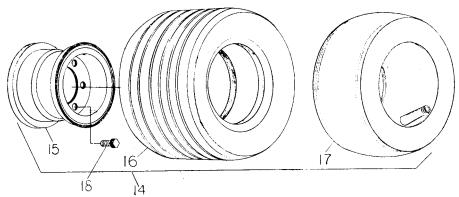
REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	W28775	1	Tail Wheel, Pneumatic	15	W28776	1	Tail Wheel Arm Assembly
			Complete	16	W12881	1	Cap, Dust
2	29030RP	1	Link, Floating Right	17	12889	1	O-Ring .09 x 1.56 OD
3	29031RP	1	Llnk, Floating Left				Bushing, Bronze 1.5
4	W29034	1	Sleeve, 1.00 x1.25 x 1.44	18	W11011	2	x 1.63 x 1.50
5	26148	1	Pin, Clevis 1 x 4-29/32 HT	19	1972	1*	Grease Fitting, 1/4-28 Tapered Thread
6	1863	2*	Washer, Flat 1" SAE	20	195	1	Grease Fitting, 1/8
7	6185	2*	Pin, Cotter 1/4 x 2-1/4	20	100		Pipe Thread
8	S0105410E	1	Ratchet	21	14135RP	1	Plate, Top Dampener
9	28781RP	1	Tail Wheel Bracket Assembly	22	19459	1	Disc, Friction 4 x 6.15
10	28788	1	Pin, Clevis 3/4 x12-1/4	23	W7276	1	Pin, Spirol 7/16 x 2-1/2
11	28789	1	Pin, Clevis 1 x 12-1/4	24	14125	1	Wheel Yoke Assembly
12	1257	2*	Washer, Flat 3/4 Standard	25		1	Tire, Wheel & Hub
13	1285	4*	Pin, Cotter 1/4 x 1-1/2	26	832	2	Washer, Flat 1" Standard
14	24576	1*	Cap Screw, 1/2 NC x 1-3/4 GR5			*	Standard Hardware, obtain locally

44 Parts MAN0160 (05/16/2023)

MAN0160_2023-05.indd 44 5/23/23 12:15 PM

WHEEL HUB, TIRE & WHEEL ASSEMBLY





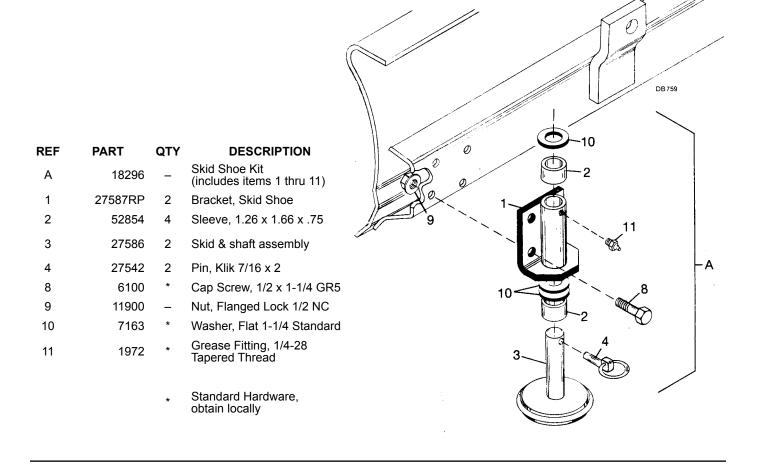
DB-418

TIRE INFLATION: 45 LBS.

REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	14130RP	1	Wheel Hub & Axle Assembly	11	5849	1	Nut, Slotted Hex 3/4 NF
2	3626	1	Nut, Hex 1-14 UNS	12	14133RP	1	Hub Cap Assembly w/fitting
3	1863	1*	Washer, Flat 1" SAE	13	N/S	1*	Grease Fitting, 1/4 Tapered Thread
4	14131	1	Axle Assembly				•
_	1000	1*	Din Cotton 2/40 x 4 4/2	14	14255	1	Wheel & Tire 18 x 9.5 - 8
5	1266	1"	Pin, Cotter 3/16 x 1-1/2	15	N/S	1	Rim 18 x 9.5 x 8
			Seal, 1.50 x 2.44 x .31 (Note: Point spring-loaded lip outward in assembly	16	N/S	1	Tire, Rib 18 x 9.5 x 8 6-ply
6	314	1		17	N/S	1	Inner Tube, 18 x 9.50 x 8
			of seal to housing)	18	1258	5	Bolt, Wheel 1/2 NF x 1-1/8
7	1017028	2	Bearing Cone				
8	1017036	2	Bearing Cup			*	Standard Hardware,
9	14132	1	Wheel Hub, Housing w/cups			•	obtain locally
10	1257	2*	Washer, Flat 3/4 Standard			N/S	Not Serviced Separately

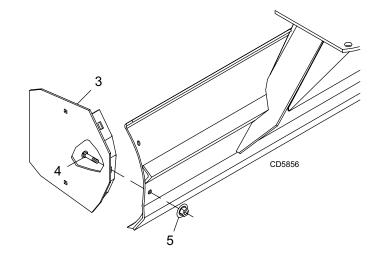
MAN0160 (05/16/2023) Parts 45

SKID SHOE KIT 18296



END PLATE KIT 22658

REF	PART	QTY	DESCRIPTION
3	N/S		Plate, End
4	2615	*	Bolt, Carriage 1/2 NC x 1-1/4 GR5
5	11900		Nut, Flanged Lock 1/2 NC
		*	Standard Hardware, obtain locally
		N/S	Not Serviced Separately



46 Parts MAN0160 (05/16/2023)

MAN0160_2023-05.indd 46 5/23/23 12:15 PM

INDEX

ADJUSTMENTS

Blade Angle Adjustment

Hydraulic 10

Mechanical 10

Offset (Swing)

Hydraulic Swing Cylinder 12

Mechanical Adjustment 11

Operating Tips 12

Reverse Blade 10

Tilt Adjustment

Hydraulic 11

Mechanical 11

ASSEMBLY

Dealer Set-Up Instructions 14

Hydraulic Configuration

Cylinders 23

Relief Valves and Hoses 24

Selector Valve Kit 25, 26

Main Assembly 15

A-Frame 16

Blade to Pivot Assembly 15

Boom to Pivot Assembly 15

Manual Tube 16

Slow Moving Vehicle Sign 17

Manual Configuration

Hydraulic Angle Kit 19

Hydraulic Offset Kit 22

Hydraulic Tilt Kit 20

Offset Linkage 18

Optional Equipment

End Plate Kit 29

Pneumatic Tail Wheel 27

Skid Shoe Kit 28

DEALER CHECKLISTS

Delivery Checklist

(Dealer's Responsibility) 30

Pre-Delivery Checklist

(Dealer's Responsibility) 30

GENERAL

Appendix

Abbreviations 49

Bolt Size Chart 49

Bolt Torque Chart 48

General Information 4

Introduction 2

Obtaining Replacement Manuals 2

Product Registration 2

Specifications 4

Warranty 2

OPERATION

Backfilling 12

Blade Angle Adjustment 10

Leveling And Grading 12

Mount Blade To Tractor 9

Offset (Swing) 11

Hydraulic Swing Cylinder 12

Operating Tips 12

Pre-Operation Checklist

(Owner's Responsibility) 12

Reverse Blade 10

Tilt Adjustment 11

OWNER SERVICE

Blade Cutting Edge 13

Bolts 13

Cleaning

After Each Use 13

Periodically or Before Extended Storage 13

Lubrication 13

PARTS

Parts Index 31

SAFETY

Checklist

Delivery Checklist

(Dealer's Responsibility) 30

Pre-Delivery Checklist

(Dealer's Responsibility) 30

Pre-Operation Checklist

(Owner's Responsibility) 12

Safety Decals 7

Safety Rules 5

Safety Symbols Explained 2

MAN0160 (05/16/2023)

Index 47

MAN0160_2023-05.indd 47 5/23/23 12:15 PM

BOLT TORQUE CHART

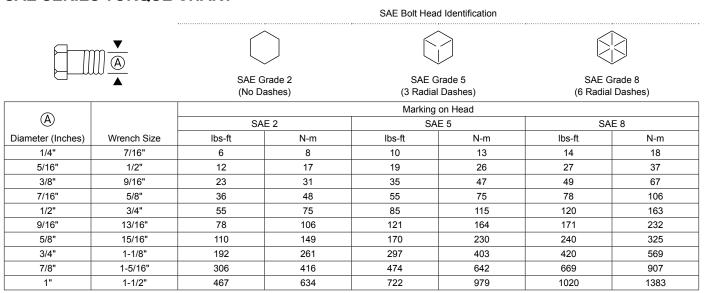
Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application.

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.

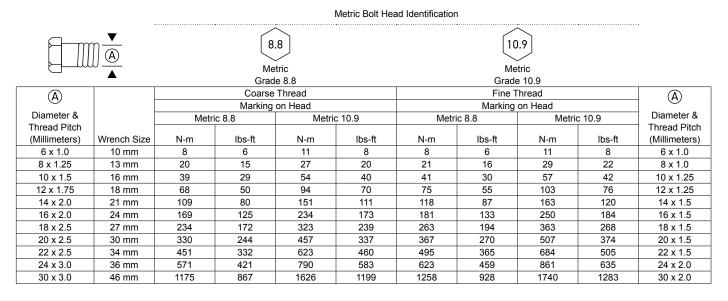
SAE SERIES TORQUE CHART



TYPICAL WASHER INSTALLATIONS



METRIC SERIES TORQUE CHART



48 Appendix

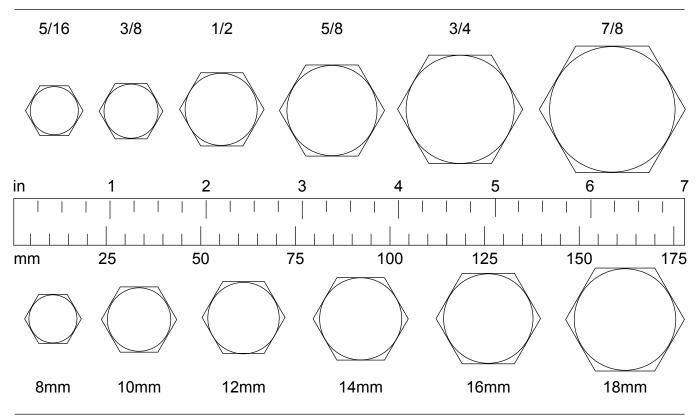
MAN0160 (05/16/2023)

MAN0160_2023-05.indd 48 5/23/23 12:15 PM

BOLT SIZE CHART

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

SAE BOLT THREAD SIZES



METRIC BOLT THREAD SIZES

ABBREVIATIONS

AG Agriculture	HT Heat-Treated	ORBM O-Ring Boss - Male
ASABE American Society of Agricultural &	JIC Joint Industry Council 37° Degree Flare	P Pitch
Biological Engineers (formerly ASAE)	LH Left Hand	PBY Power-Beyond
ASAE American Society of Agricultural Engineers	LT	psi Pounds per Square Inch
ATF Automatic Transmission Fluid	m	PTO Power Take Off
BSPP British Standard Pipe Parallel	mm	QD Quick Disconnect
BSPTM British Standard Pipe Tapered Male	M	RH Right Hand
CV Constant Velocity	MPa Mega Pascal	ROPS Roll-Over Protective Structure
CCW Counter-Clockwise	N Newton	RPM Revolutions Per Minute
CW	NC	RT Right
F Female	NF National Fine	SAE Society of Automotive Engineers
FT Full Thread	NPSM National Pipe Straight Mechanical	UNC Unified Coarse
GA	NPT National Pipe Tapered	UNF Unified Fine
GR (5, etc.) Grade (5, etc.)	·	UNS Unified Special
HHCS	NPT SWF National Pipe Tapered Swivel Female	ONS Special

P
PBY Power-Beyon
psi Pounds per Square Inc
PTO Power Take C
QD Quick Disconne
RH Right Har
ROPS Roll-Over Protective Structure
RPM Revolutions Per Minut
RT Rig
SAE Society of Automotive Engineer
UNC Unified Coars
UNF
UNS Unified Speci

MAN0160 (05/16/2023) Appendix 49

MAN0160_2023-05.indd 49 5/23/23 12:15 PM

PART NO. MAN0160

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MAN0160_2023-05.indd 50 5/23/23 12:15 PM