TRI-L
MANUFACTURING, INC.

Operators Manual & Warranty Information for BRUSHBOSS Grapple models:

BRUSHBOSS | BRUSHBOSS-JD5 | BRUSHBOSS-JD6 | BRUSHBOSS-WW



Do not discard.

This manual must accompany each unit.

Registration card must be filled out and sent in prior to first use.

Fill out and keep for your records:

Date purchased: _____ / _____ / _____

Purchase price: $ _____

Purchased from: _____

_____

_____

Warranty card postmarked: _____ / _____ / _____

Purchase notes: _____

_____

_____

_____

_____

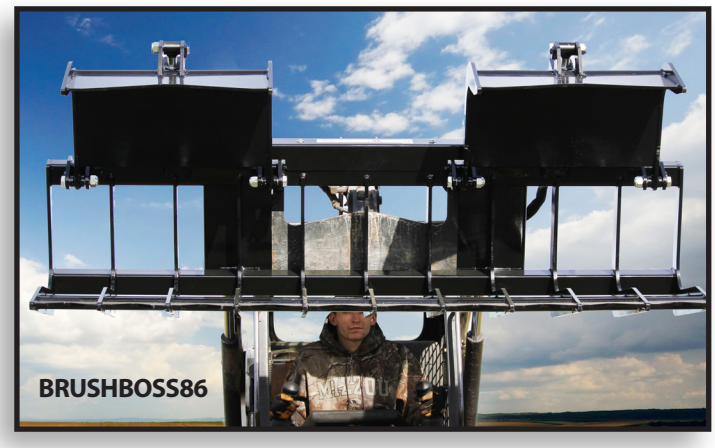
TRI-L
MANUFACTURING, INC.

BrushBoss Grapple

BRUSHBOSS **BRUSHBOSS-JD5 / JD6 / WW**
BRUSHBOSS77 **BRUSHBOSS77-JD5 / JD6 / WW**
BRUSHBOSS86 **BRUSHBOSS86-JD5 / JD6 / WW**



- 61" or 77" width
- One remote operates both cylinders; separate top claws secure unlevel loads
- Skid Steer mount equipped with supply hoses
- Tractor mounts do NOT include supply hoses, but come with 2 restrictors, and 2 quick disconnects



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Steel fabricators for veteran and suburban farmers.

BRUSHBOSS Grapple
Operator's Manual

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INTRODUCTION

Thank you for purchasing your new BRUSHBOSS Grapple. We hope you will enjoy years of productive and reliable use from it. The BRUSHBOSS Grapple is designed for moving debris materials. No other use is intended.

The BRUSHBOSS is the skid steer style, quick attach model. The BRUSHBOSS-JD5 is the John Deere 400/500 series, quick attach model. The BRUSHBOSS-JD6 is the John Deere 600/700 series, quick attach model. The BRUSHBOSS-WW is the John Deere Global / Euro Hook style, quick attach model. All of the above models are offered in either a 61" wide, or a 78" wide configuration.

Thoroughly read and understand this manual before operation. The illustrations in this manual may vary slightly in detail due to possible engineering and/or production changes. Tri L Manufacturing, Inc. reserves the right to redesign and/or change components as may be necessary without notification to anyone.

WARRANTY

SIX MONTH WARRANTY OF BRUSHBOSS PRODUCTS

Within six months from the date of purchase, if this product fails due to a defect in material or workmanship, Tri-L Manufacturing, Inc. will repair it, free of charge. **Customer is responsible for any shipping charges to and from the manufacturer.** Components manufactured by others are subject to the warranties of that manufacturer. Warranty does not cover damage incurred by use or misuse of the equipment, or damage that occurs to the item after it has left the manufacturer. Damages that result from lack of normal maintenance or neglect will not be covered under warranty. Read all instructions carefully before operating this piece of equipment.

Warranty service is available by simply contacting your dealer or distributor.

This warranty gives you specific legal rights, and you may have other rights, which may vary from state to state.

REGISTRATION

Registration card must be completed and mailed back to Tri-L *prior* to first use of equipment. We respect your privacy. Your personal information will never be shared without permission.

If you're registration card is lost or misplaced, please contact Tri-L Manufacturing, Inc. for a replacement. Again, the registration card must be completed fully and mailed back *prior* to first use of this piece of equipment.

Safety—You Can Live With It

SAFETY

TAKE NOTE! THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS MANUAL IS USED TO CALL **YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND THE SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.**



THIS SYMBOL MEANS:

ATTENTION!
BECOME ALERT!
YOUR SAFETY IS INVOLVED!

SIGNAL WORDS

Note the use of the signal words **DANGER, WARNING**, and **CAUTION** with the safety messages. The appropriate signal word for each has been selected using the following guidelines:

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components, which, for functional purposes, cannot be guarded.

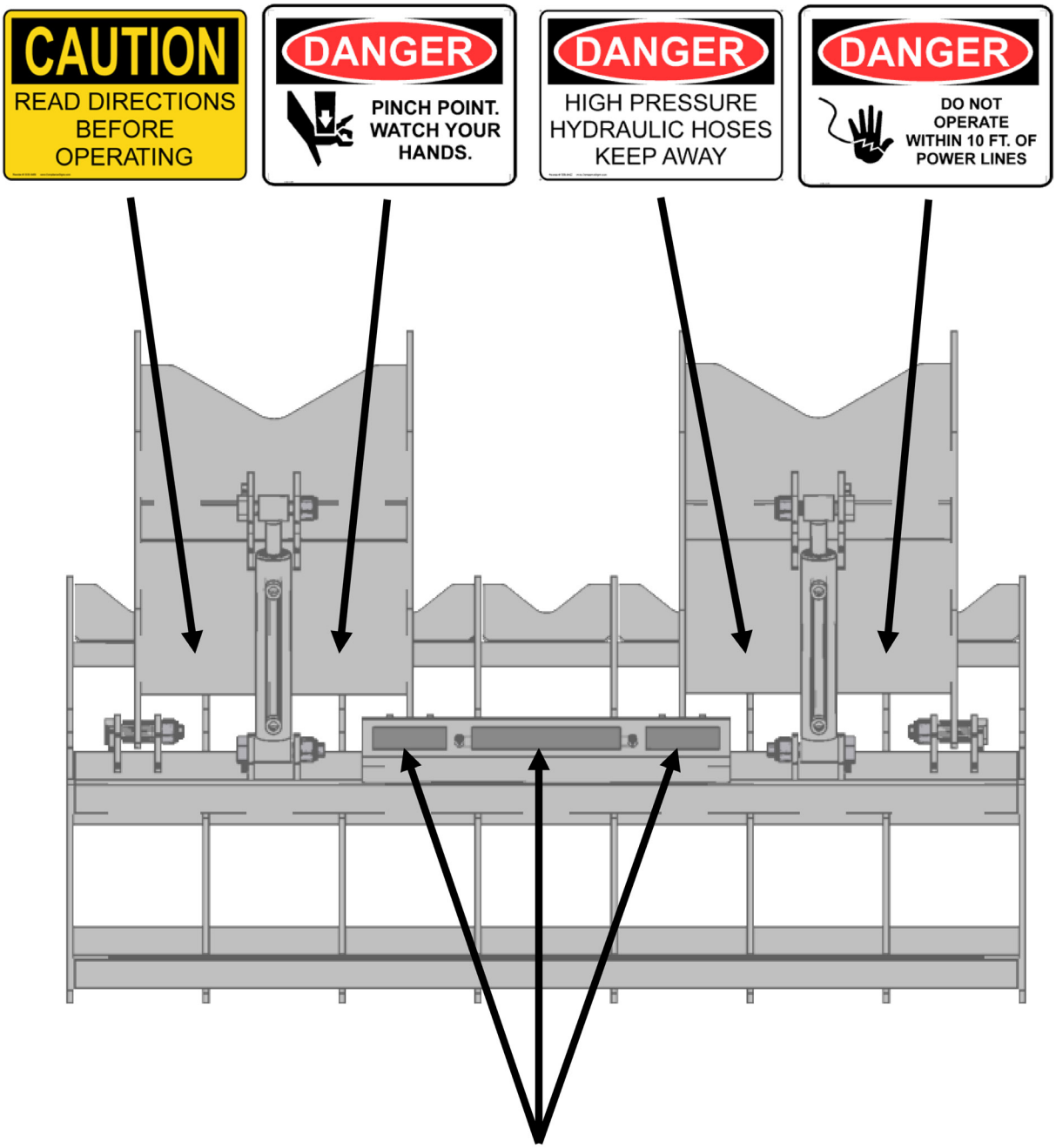
WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION: Indicates a potentially hazardous situation that, if not avoided may result in minor or moderate injury. It may also be used to alert against unsafe practices.

If you have questions not answered in this manual, if you require additional copies of this manual, or if the manual is damaged, please contact your dealer or Tri-L Manufacturing, Inc, P.O. Box 2029, Ozark, MO 65721. Phone: 417-581-8999. Fax: 417-485-4224.

SAFETY SIGN LOCATIONS

The types of safety signs and locations on the equipment are shown in the illustration below. Good safety requires that you familiarize yourself with the various safety signs, the type of warning and the area, or particular function related to that area, that requires your **SAFETY AWARENESS.** REMEMBER: If safety signs have been damaged, removed, become illegible, or parts replaced without decals, new decals *MUST* be applied. New decals are available from your authorized distributor or factory.



Non-skid material.

SAFETY DECAL CARE

- Keep safety decals and signs clean and legible at all times.
- Replace safety decals and signs that are missing or have become illegible.
- Replaced parts that displayed a safety sign should also display the current sign.
- Safety decals or signs are available from your distributor or dealer parts department, or the factory.

HOW TO INSTALL SAFETY DECALS

- Be sure that the installation area is clean and dry.
- Decide on the exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of decal backing paper.



EQUIPMENT SAFETY GUIDELINES

Every year, many accidents occur which could have been avoided by a few seconds of thought, and a more careful approach to operating equipment. Study the following precautions and insist that those working with you, or for you, read and follow them as well.

In order to provide a better view, certain photographs or illustrations in this manual may show an assembly with a safety shield removed. However, equipment should never be operated in this condition. Keep all shields in place. **If shield removal becomes necessary for repairs, replace the shield prior to use.**

- Read and understand this instruction manual in its entirety before using the BRUSHBOSS. Also, read and understand all safety decals.

- All users should first read this manual and develop a thorough understanding of safety precautions and how the BRUSHBOSS works. Review these safety instructions with all users annually.

- Replace any **CAUTION, WARNING, DANGER**, or instruction safety decal that is not readable or is missing. Locations of such decals are indicated in this manual.

- **WARNING!** Do not make any modifications to the BRUSHBOSS. When making repairs, use only the manufacturer's genuine parts. Using substandard parts could weaken the integrity of the BRUSHBOSS.

- **DANGER!** Be careful around hydraulic fluid lines. Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death. Hydraulic leaks under pressure may not be visible. **Never use your hands to locate a hydraulic leak on attachments.** Use a small piece of cardboard or wood. Before disconnecting hydraulic lines, shut off hydraulic supply and relieve all hydraulic pressure. If injured by escaping hydraulic fluid, see a doctor immediately. Openings in the skin and minor cuts are susceptible to infection from hydraulic fluid. Gangrene can result from neglect of such injuries. Without immediate medical treatment, serious infection and reactions can occur.

- **DANGER!** Do not attempt to operate this equipment under the influence of drugs or alcohol.

- Do not alter or remove any safety features.

- Because it is possible that this equipment may be used in dry areas or in the presence of combustibles, special precautions should be taken to prevent fires and fire-fighting equipment should be readily available.

- To prevent injury or death, use a tractor or skid-steer equipped with a Roll Over Protective System (ROPS). Fasten your seatbelt before starting the engine.

- Don't hurry the learning process or take the unit for granted. Ease into it and become familiar with your new equipment.

- Never attempt to operate the grapple while it is not securely attached to your prime mover.

REMEMBER: Your best assurance against accidents is a careful and responsible operator. If there is any portion of this manual or function you do not understand, contact the local authorized dealer or the manufacturer.



BEFORE OPERATION

Do not work on or under the BRUSHBOSS while it is elevated. Always place the BRUSHBOSS on solid, level ground before performing any maintenance.

- Visually inspect the BRUSHBOSS for loose bolts, worn parts, or cracked welds, and make the necessary repairs. Replace any damaged, fatigued, or excessively worn parts.

- Grease pivot bolts after every 10 hours of use.

- Check and fill hydraulic fluid to levels necessary for safe operation.

- Be sure that there are no tools lying on or in the equipment.

- Practice operation of your equipment and its attachments. Completely familiarize yourself with your new equipment.



DURING OPERATION

Loads should be carried with the weight centered on the bottom of the bucket. The heaviest side should be closest to the back of the bucket, not at the front edge of the bucket. The grapples should be closed to secure the load. Movements should be smooth and gradual. Avoid sudden starts and stops. Raise the load only as high as is necessary to cross the terrain.

- **WARNING!** Do not allow others to be near you while operating the BRUSHBOSS. Always be aware of your surroundings, and the possibility of someone entering your workspace. Keep a safe distance between your equipment and others.

- **WARNING!** Do not carry loads so large, or in any manner that obstructs the operators view, or would allow the load to fall onto the operator.

- **DANGER!** Do not operate the BRUSHBOSS from anywhere other than the correct operator's position.

- **CAUTION!** When leaving equipment unattended, always lower the BRUSHBOSS to rest on the ground, close the grapple claws, set the parking brake, turn off the engine, and remove the ignition key.

- **CAUTION!** Be aware of handling differences while the BRUSHBOSS is attached, and make changes to your driving accordingly. The added weight could cause a tip hazard situation when driving or steering too quickly. Allow for the extra clearance your BRUSHBOSS attachment requires.

- **CAUTION!** Be aware of your loader's specifications, and do not exceed the lift capacity.

- **CAUTION!** Make sure loads are secure. If the load appears unstable, open the BRUSHBOSS and reposition the load to provide maximum stability.

- **DANGER!** Be aware of electrical and other utility lines, and **do not allow contact.** It is unlawful to operate this machinery within 10 feet of high voltage power lines. Call local utilities for the location of buried utility lines, gas, water, and sewer, as well as any other hazard you may encounter. Death or serious injury could result if contact is made with electrical lines.

- **DANGER!** Never allow anyone to ride on the BRUSHBOSS Grapple. Death or serious injury could occur.

- **DANGER!** Keep hands and clothing clear of moving parts. Do not wear loose-fitting clothing, which may catch in moving parts. Always wear protective clothing and substantial shoes. It is recommended that suitable protective hearing and sight protectors are worn (ear plugs and safety glasses).

- **CAUTION!** Do not clean, lubricate, or adjust your equipment while it is moving.

- Periodically clean the equipment to keep the BRUSHBOSS clean and free of dirt, grease, debris, and oil. Prevent the buildup of combustible materials. Do not work on or under the BRUSHBOSS while it is elevated. Always place the BRUSHBOSS on solid, level ground before performing any maintenance.



FOLLOWING OPERATION

Do not work on or under the BRUSHBOSS while it is elevated. Always place the BRUSHBOSS on solid, level ground before performing any maintenance.

- Visually inspect the BRUSHBOSS for loose bolts, worn parts, or cracked welds, and make the necessary repairs. Replace any damaged, fatigued, or excessively worn parts.

- Grease pivot bolts after every 10 hours of use.

- Store unit in a protected area, away from children and livestock. Do not permit children to play on or around the stored unit. Always store unit with grapple claws closed.

- Cap hydraulic hoses to prevent unwanted debris from contaminating fluid lines.



PERFORMING MAINTENANCE

Good maintenance is your responsibility. Poor maintenance is an invitation for trouble.

- Pivots bolts should be greased after every 10 hours of use. Thoroughly clean grease fittings before greasing. Dirt allowed into lubricants will rapidly wear parts.

- Do not work on or under the BRUSHBOSS while it is elevated. Always place the BRUSHBOSS on solid, level ground before performing any maintenance.

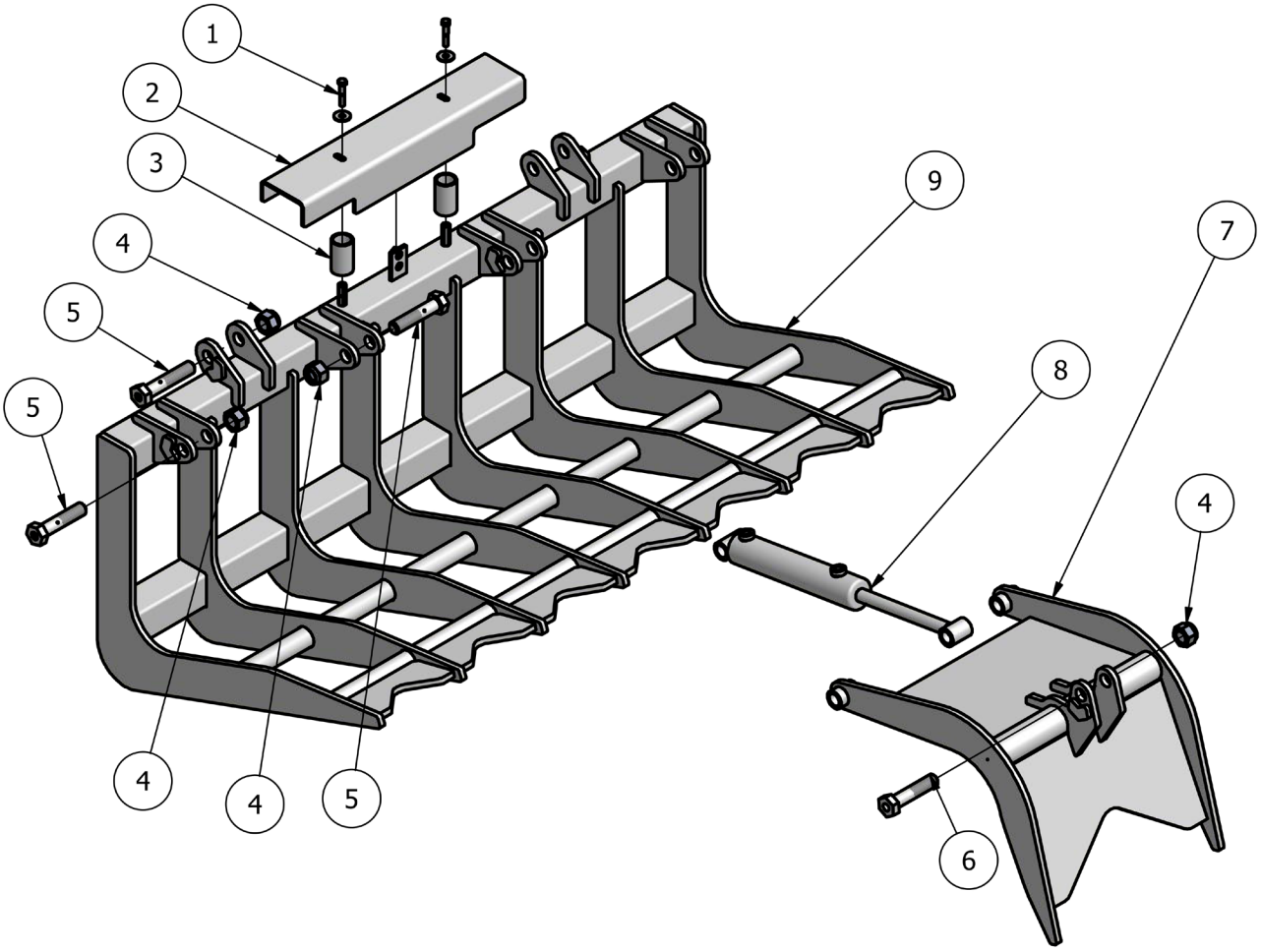
- Replace all shields and guards after servicing and before moving.

- After servicing, be sure all tools, parts, and service equipment are removed.

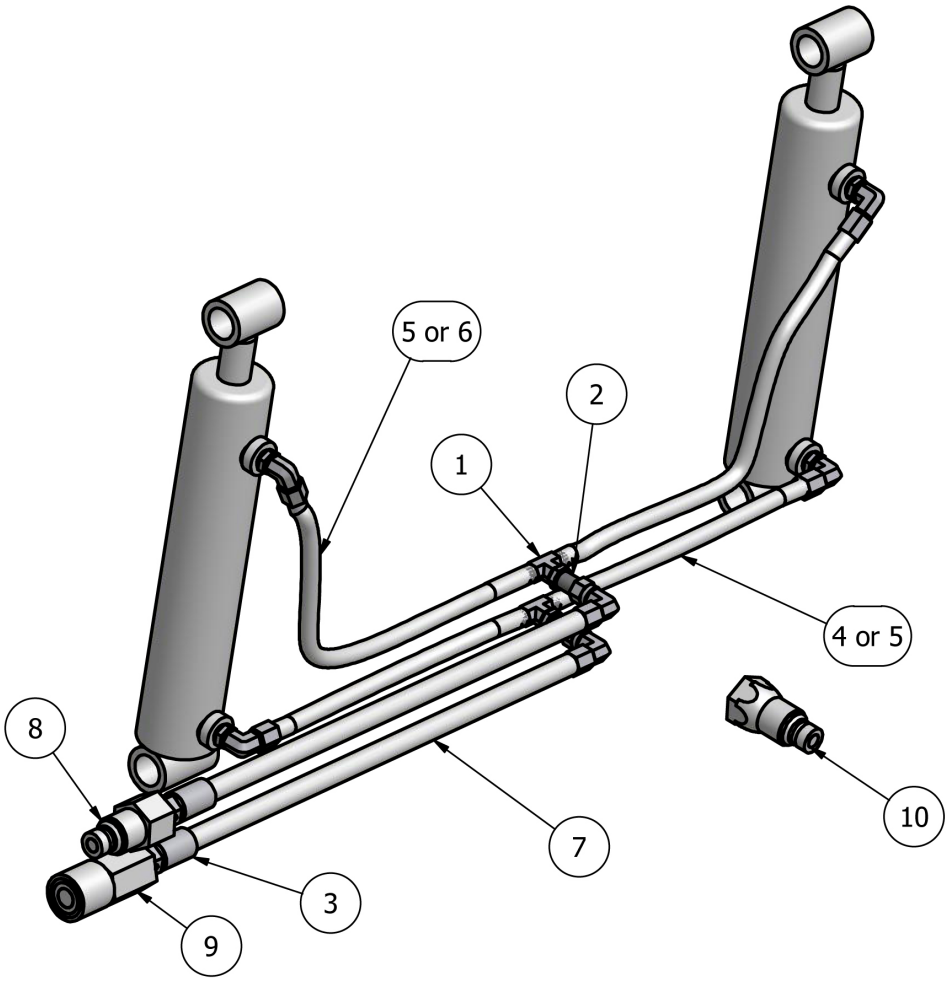
- Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. The manufacturer will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.

- If equipment has been altered in any way from original design, the manufacturer does not accept any liability for injury or warranty.

- A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this equipment.



No.	Quantity	Part Number	Description
1	2	208020	2" LONG Hex Bolt, 3/8" - 16 UNC, with washer
2	1	106017	Hydraulic Hose Cover/Step
3	2	110025	Spacer for Cover/Step
4	8	202004	1" - 8 Nylock Nut
5	6	208010	1" - 8 UNC, 4 1/2" Hex Bolt, drilled for grease fitting
6	2	209010	1" - 8 UNC, 5 1/2" Hex Bolt, drilled for grease fitting
7	2	406102	BRUSHBOSS Grapple Claw Assembly
8	2	215006	2 x 6 Welded Hydraulic Cylinder
9	1	406101	BRUSHBOSS Bottom Fork Assembly



No.	Quantity	Part Number	Description
1	2	214011	Bulkhead Longnose Tee, 9/16-18 (06) JIC Male
2	2	214015	Bulkhead Tee Hex Nut 9/16"
3	2	214016	1/2-14 (08) NPT Male x 1/2-14 (08) NPT Female .062 Straight Restrictor
4	2	213012	1/4" hose 3000 PSI 26" OAL 9/16-18 (06) JIC Female Swivel TO MPX 90° 3/8-18 (06)
5	2	213013	1/4" hose 3000 PSI 33" OAL 9/16-18 (06) JIC Female Swivel TO MPX 90° 3/8-18 (06)
6	2	213014	1/4" hose 3000 PSI 41" OAL 9/16-18 (06) JIC Female Swivel TO MPX 90° 3/8-18 (06)
7	2	213010	3/8" hose 3000 PSI 72" OAL 9/16-18 (06) JIC Female Swivel x 1/2-14 (08) NPT Male Straight
8	1	214012	BC Quick Disconnect Male
9	1	214013	BC Quick Disconnect Female
10	2	214008	1/2-14 (08) NPT Female Quick Disconnect

NOTE: The 61" Grapple uses part numbers 213012 and 213013. The 71" Grapple uses part numbers 213013 and 213014.

Part numbers 213010, 214012, and 214013 are included only on the skid steer mount BRUSHBOSS.
Part number 214008 is included only with the BRUSHBOSS-JD5, BRUSHBOSS-JD6, and BRUSHBOSS-WW. For these models, you will need to purchase two hoses at length to fit your tractor. Hoses should be 3/8" 3000 PSI with 9/16-18 (06) JIC Female 90° Swivel to 1/2-14 (08) NPT Male.



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