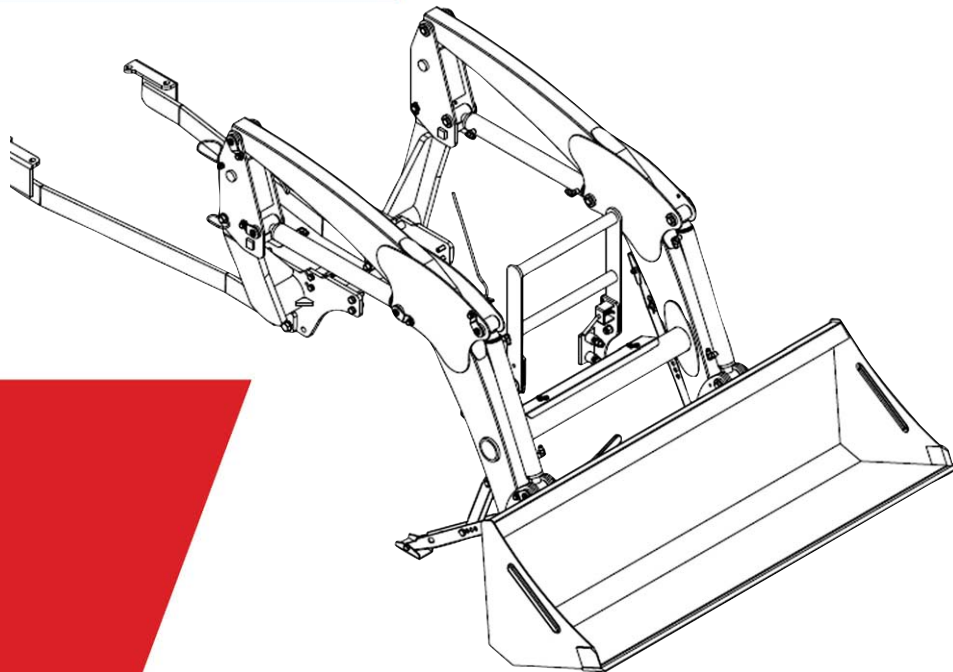


Branson Front Loader (BL25R Series)



Owner's Manual
Part Illustrations included

KUKJE MACHINERY CO., LTD.
www.kukje21.co.kr

CONGRATULATIONS!

You have invested in the best implement of its type on the market today.

The care you give your Branson implement will greatly determine your satisfaction with its performance and its service life. We urge a careful study of this manual to provide you with a thorough understanding of your new implement before operating, as well as suggestions for operation and maintenance.

As an authorized Branson dealer, we stock genuine Branson parts which are manufactured with the same precision and skill as our original equipment. Our trained service personnel are well informed on methods required to service Branson equipment, and are ready and able to help you.

Should you require additional information or assistance, please contact us.

YOUR AUTHORIZED
BRANSON DEALER

Branson reserves the rights to change the specifications. The models and specifications described here can be subjected to modifications for improvements without any prior notice by the manufacturer.

Operator's Manual

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RETAIL CUSTOMER'S RESPONSIBILITY UNDER THE BRANSON WARRANTY

It is the Retail Customer and/or Operator's responsibility to read the Operator's Manual, to operate, lubricate, maintain, and store the product in accordance with all instructions and safety procedures. Failure of the operator to read the Operator's Manual is a misuse of this equipment.

It is the Retail Customer and/or Operator's responsibility to inspect the product and to have any part(s) repaired or replaced when continued operation would cause damage or excessive wear to other parts or cause a safety hazard.

It is the Retail Customer's responsibility to deliver the product to the authorized Branson dealer from whom he purchased it, for service or replacement of defective parts which are covered by warranty. Repairs to be submitted for warranty consideration must be made within forty-five (45) days of failure.

It is the Retail Customer's responsibility for any cost incurred by the Dealer for travelling to or hauling of the product for the purpose of performing a warranty obligation or inspection.

UNDERSTAND SIGNAL WORDS

DANGER: Indicates an imminently hazardous situation which, if not avoided, death or serious injury.
This signal word is to be limited to the most extreme situations.

WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

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

LIMITED WARRANTY

☆☆

Branson warrants to the original purchaser of any new Branson equipment, purchased from an authorized Branson dealer, that the equipment be free from defects in material and workmanship for a period of one (1) year for non-commercial, state, and municipalities' use and ninety (90) days for commercial use from date of retail sale. The obligation of Branson to the purchaser under this warranty is limited to the repair or replacement of defective parts.

Replacement or repair parts installed in the equipment covered by this limited warranty are warranted for ninety (90) days from the date of purchase of such part or to the expiration of the applicable new equipment warranty period, whichever occurs later. Warranted parts shall be provided at no cost to the user at an authorized Branson dealer during regular working hours. Branson reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

DISCLAIMER OF IMPLIED WARRANTIES & CONSEQUENTIAL DAMAGES

Branson's obligation under this limited warranty, to the extent allowed by law, is in lieu of all warranties, implied or expressed, **INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE** and any liability for incidental and consequential damages with respect to the sale or use of the items warranted. Such incidental and consequential damages shall include but not be limited to: transportation charges other than normal freight charges; cost of installation other than cost approved by Branson; duty; taxes; charges for normal service or adjustment; loss of crops or any other loss of income; rental of substitute equipment, expenses due to loss, damage, detention or delay in the delivery of equipment or parts resulting from acts beyond the control of Branson.

THIS LIMITED WARRANTY SHALL NOT APPLY:

- 1. To vendor items which carry their own warranties, such as engines, tires, and tubes.
- 2. If the unit has been subjected to misapplication, abuse, misuse, negligence, fire or other accident.
- 3. If parts not made or supplied by Branson have been used in connection with the unit, if, in the sole judgement of Branson such use affects its performance, stability or reliability.
- 4. If the unit has been altered or repaired outside of an authorized Branson dealership in a manner which, in the sole judgement of Branson, affects its performance, stability or reliability.
- 5. To normal maintenance service and normal replacement items such as gearbox lubricant, hydraulic fluid, worn blades, or to normal deterioration of such things as belts and exterior finish due to use or exposure.
- 6. To expendable or wear items such as teeth, chains, sprockets, belts, springs and any other items that in the company's sole judgement is a wear item.

NO EMPLOYEE OR REPRESENTATIVE OF BRANSON IS AUTHORIZED TO CHANGE THIS LIMITED WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY UNLESS SUCH CHANGE IS MADE IN WRITING AND SIGNED BY BRANSON'S SERVICE MANAGER, SEOUL, KOREA

☆☆

Record the model number, serial number and date purchased. This information will be helpful to your dealer if parts or service are required.	MODEL NUMBER _____
MAKE CERTAIN THE WARRANTY REGISTRATION CARD HAS BEEN FILED WITH BRANSON/SEOUL, KOREA	SERIAL NUMBER _____
	DATE OF RETAIL SALE _____

DEALER PREPARATION CHECK LIST

BEFORE DELIVERING MACHINE – The following check list should be completed.

Use the Operator's Manual as a guide.

- Machine properly assembled.
- All safety decals readable (See decal page).
- All bolts tightened to torque specifications given in torque chart.
- Machine operates properly.
- Customer has appropriate mounting kit for his tractor and loader.
- Operators manual has been delivered to owner and he has been instructed on the safe and proper use of the front end loader.

CAUTION

It is recommended that the tractor be equipped with Rollover Protection System (ROPS) and seat belt be used for all loader operations.

WARNING

To avoid serious injury or death, do not handle large heavy objects (large round bales, machinery, etc.) with this loader.

It is the responsibility of the dealer to complete the procedures listed above before delivery of this implement to the customer.

Dealer's Signature _____

THIS CHECKLIST TO REMAIN IN OWNER'S MANUAL

It is responsibility of the dealer to complete the procedures listed above before of this implement to the customer

IMPORTANT SAFETY PRECAUTIONS

This symbol is used to call attention to safety precautions that should be followed by the operator to avoid accidents. When you see this symbol, carefully read the message that follows and heed its advice. Failure to comply with safety precautions could result in serious bodily injury.



In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel in the operation, transport, maintenance and storage of equipment. Lack of attention to safety can result in accident, personal injury, reduction of efficiency and worst of all—loss of life. Watch for safety hazards and correct deficiencies promptly. Use the following safety precautions as a general guide to safe operations when using this machine. Additional safety precautions are used throughout this manual for specific operating and maintenance procedures. Read this manual and review the safety precautions often until you know the limitations.

THE TRACTOR

1. Read the tractor operator's manual to learn how to operate your tractor safely. Failure to do so could result in serious injury or death and equipment damage.
2. It is recommended that tractor be equipped with Rollover Protective System (ROPS) and a seat belt be used for all loader operations.
3. When operating loader directly off tractor remotes always remove or lockout detent on tractor's hydraulic valves.
This allows levers return to neutral position when released.
4. Add wheel ballast or rear weight for stability.
5. Move wheels to the tractor manufacturer's widest recommended settings to increase stability.

6. For better stability, use tractor with wide front axle rather than tricycle front wheels.
7. Move and turn the tractor at low speeds.
8. Stop tractor engine, place transmission in park (or neutral), engage parking brake, lower loader arms to ground, cycle all hydraulic controls to relieve pressure, allow machine moving parts to stop, remove ignition key to prevent unauthorized person from starting engine before dismounting tractor or servicing, repairing, or making adjustments to the equipment.
9. Wear personal protective equipment (PPE), such as, but not limited to, protection for eyes, ears, lungs, head, hands and feet when operating, servicing, or repairing equipment. Avoid wearing loose clothing or jewelry that may catch and entangle on equipment moving parts.

THE LOADER

1. Read the loader operator's manual to learn how to operate your loader safely. Failure to do so could result in serious injury or death and equipment damage.
2. Become familiar with all the machine's controls and all the caution, warning and danger decals affixed to the machine before attempting to start or operate.
3. Improper use of a loader can cause serious injury or death.
4. Do not lift or carry anybody on the loader or in the bucket or attachment.
5. Never allow anyone to get under the loader bucket or reach through the booms when the bucket is raised.
6. Do not walk or work under a raised loader bucket or attachment unless it is securely blocked or held in position.
7. Avoid overhead wires and obstacles when loader is raised. Contacting electrical lines can cause electrocution.
8. Make sure all parked loaders on stands are on a hard, level surface.
9. Use a piece of cardboard or wood rather than hands and wear eye protection when searching for hydraulic leaks.
Escaping hydraulic oil under pressure can penetrate skin. If oil is injected into skin, it must be surgically removed within a few hours by a doctor or gangrene may result.
10. Before disconnecting hydraulic lines, relieve all hydraulic pressure.

11. Do not tamper with the relief valve setting. The relief valve is preset at the factory. Changing the setting can cause overloading the loader and tractor and serious operator injury may result.
12. Always wear safety goggles when repairing or servicing machine.
13. When servicing or replacing pins in cylinder ends, buckets, etc., always use a brass drift and hammer. Failure to do so could result in injury from flying fragments.
14. Replace damaged or illegible safety decals. See decal page for required decals.
15. Do not modify or alter or permit anyone else to modify or alter the loader, any of its components or any loader function without first consulting your local dealer.

OPERATING THE LOADER

1. It is the loader owner's responsibility to instruct and have a person read operator's manual, safety decals and become familiar with machine controls before allowing them to operate loader.
2. Do not allow children to operate the loader.
3. Before starting or operating the equipment, make a walk around inspection and check for loose or damaged components. Correct any deficiency before starting.
4. Keep the area of operation clear of all persons, particularly small children. The operator should cease operation whenever anyone comes within the operating area.
5. Operate the loader from the "Operator's Seat Only."
6. Exercise caution when operating the loader with a raised loaded bucket or fork.
7. Avoid loose fill, rocks and holes. They can be dangerous for loader operation or movement.
8. Be extra careful when working on inclines.
9. Allow for the loader length when making turns.
10. Stop the loader arms gradually when lowering or lifting.
11. Use caution when handling loose or shiftable loads.
12. Carry loader arms at a low position during transport.
13. Lower loader arms, stop engine, and lock brakes before leaving the tractor seat.
14. Operate the loader controls only when properly seated at the controls.
15. Do not use loader for handling large, heavy objects such as logs, oil drums, etc.
16. Handling large, heavy objects is dangerous due to:
 - Possibility of rolling the tractor over.
 - Possibility of upending the tractor.
 - Possibility of the object rolling or sliding down the loader arms onto the operator.
17. This is a Front End Loader. **"Not a bulldozer"** . Do not fit front blade attachment or warranty for the tractor and front end loader will be void. !!!

IMPORTANT FEDERAL LAWS AND REGULATIONS* CONCERNING EMPLOYERS, EMPLOYEES AND OPERATIONS.

•(This section is intended to explain in broad terms the concept and effect of the following federal laws and regulations.

It is not intended as a legal interpretation of the laws and should not be considered as such).

U.S. Public Law 91-596 (The Williams-Steiger Occupational and Health Act of 1970) OSHA

This Act Seeks:

"...to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources..."

DUTIES

Sec. 5 (a) Each employer-

- (1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;
- (2) shall comply with occupational safety and health standards promulgated under this Act.

(b) Each employee shall comply with occupational safety and health standards and all rules, regulations and orders issued pursuant to this Act which are applicable to his own actions and conduct.

OSHA Regulations

Current OSHA regulations state in part: "At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee in the safe operation and servicing of all equipment with which the employee is, or will be involved." These will include (but are not limited to) instructions to:

Keep all guards in place when the machine is in operation;

Permit no riders on equipment;

Stop engine, disconnect the power source, and wait for all machine movement to stop before servicing, adjusting, cleaning or unclogging the equipment, except where the machine must be running to be properly serviced or maintained, in which case the employer shall instruct employees as to all steps and procedures which are necessary to safely service or maintain the equipment.

Make sure everyone is clear of machinery before starting the engine, engaging power, or operating the machine.

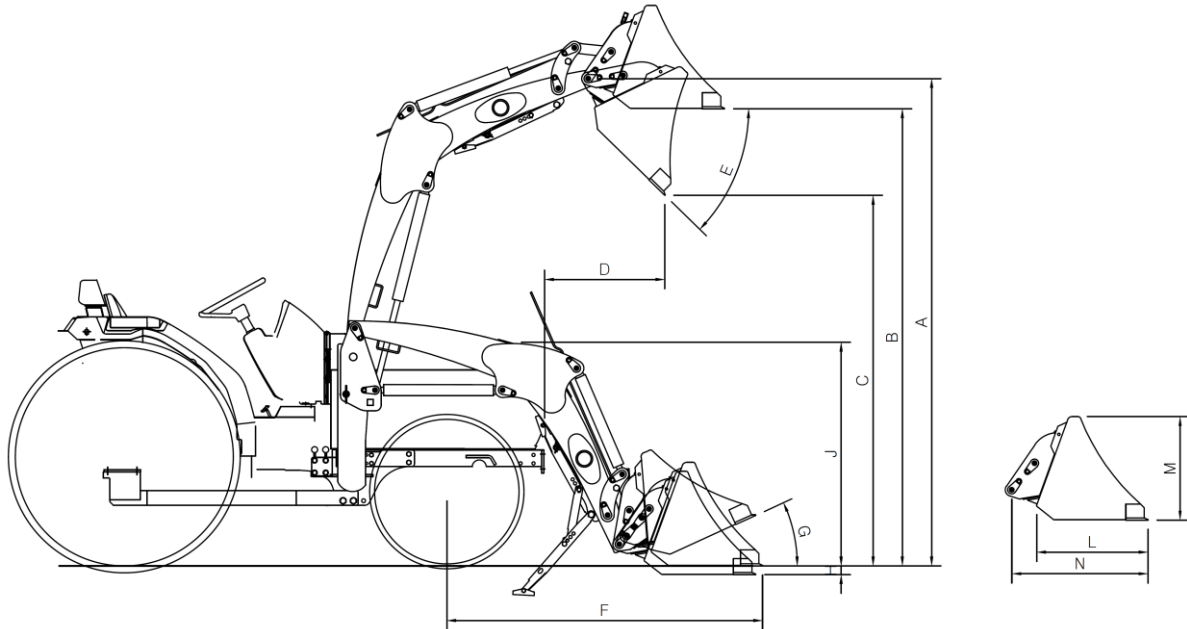
EMPLOYEE TRACTOR OPERATING INSTRUCTIONS:

1. Securely fasten your seat belt if the tractor has a ROPS.
2. Where possible, avoid operating the tractor near ditches, embankments, and holes.
3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. Stay off slopes too steep for safe operation.
5. Watch where you are going, especially at row ends, on roads, and around trees.
6. Do not permit others to ride.
7. Operate the tractor smoothly – no jerky turns, starts, or stops.
8. Hitch only to the drawbar and hitch points recommended by tractor manufacturers.
9. When tractor is stopped, set brakes securely and use park lock if available

Child Labor Under 16 Years Old

Some regulations specify that no one under the age of 16 may operate power machinery. It is your responsibility to know what these regulations are in your own area or situation. (Refer to U.S. Dept. of Labor, Employment Standard Administration, Wage & Home Division, and Child Labor Bulletin #102.)

SECTION I LOADER SPECIFICATIONS



Loader model	BL25R / BL25R1	Remark
Tractor model	Branson 3220R/3520R/3520H/4020R/4720H/5220R	
Front tire	8 – 18(Ag)	
Rear tire	12,4 – 24(Ag)	

A	Maximum Lift Height to pivot pin	103,8 in.	2636 mm
B	Clearance with Attachment Level	97,3 in.	2471 mm
C	Clearance with Attachment Dumped	78,9 in.	2004 mm
D	Reach at Maximum Height	25,6 in.	650 mm
E	Maximum Dump Angle	44 degree	←
F	Reach with Attachment on Ground	67,3 in.	1709 mm
G	Maximum Rollback Angle	24,5 degree	←
H	Digging Depth Below Grade	1,96 in.	50 mm
J	Overall Height in Carry Position	47,6 in.	1209 mm
L	Depth of Attachment (to back of inner shell)	23,7 in.	601 mm
M	Height of Attachment	22,0 in.	461 mm
N	Depth of Attachment (to pivot pin)	29,0 in.	736 mm
Lift Capacity to Full Height @ Pivot Pins		2089 lbs	
Breakout Force @ Ground Level, pivot pin		3531 lbs	
Relief Valve Setting (Loader Control Valve)		2489 psi	
Rated Flow(Tractor System)		8,24 GPM	
Bucket Size		68,5 in.	
Weight(With Bucket)		1160 lbs	

Cycle Times	2,600 rpm(Full)
Raise Boom Frame	4.4
Lower Boom Frame	3.1
Dump Bucket	2.9
Retract Bucket	2.2

SECTION II

INTRODUCTION AND DESCRIPTION

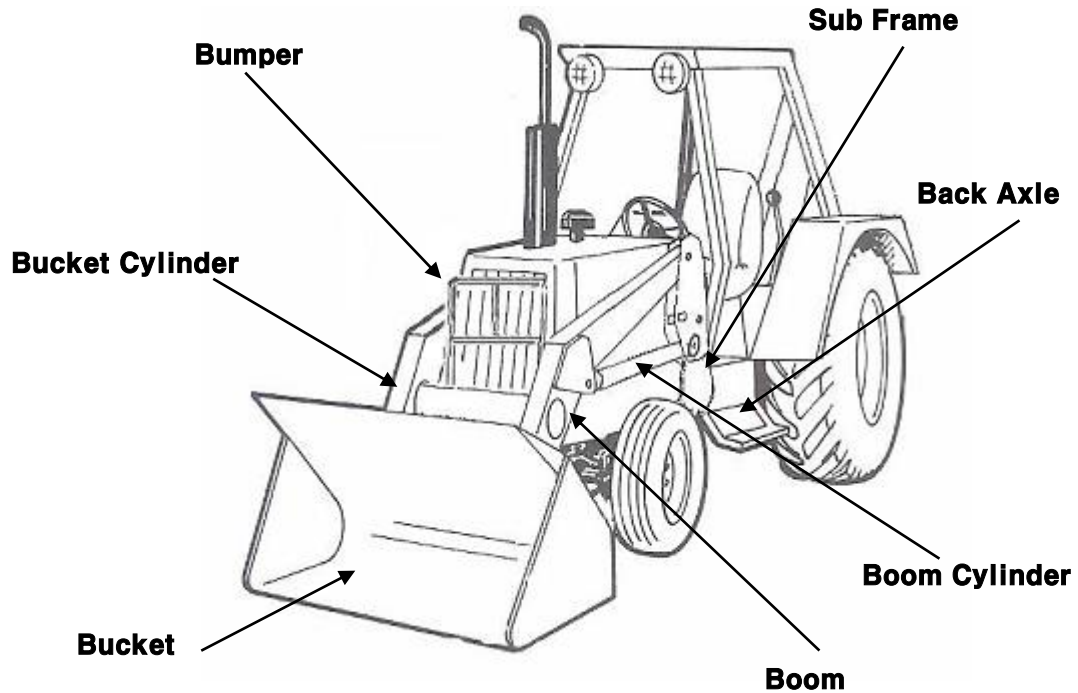
2-1 INTRODUCTION

We are pleased to have you as a Branson customer. Your Front end Loader has been carefully designed to give maximum service with minimum down time. This manual is provided to give you the necessary operating and maintenance instructions for keeping your loader in top operating condition. Please read this manual thoroughly. Understand what each control is for and how to use it. Observe all safety precautions decaled on the machine and noted throughout the manual for safe operation of implement. If any assistance or additional information is needed, contact your authorized Branson dealer.

2-2 DESCRIPTION

The Front End Loader is designed for four-wheel drive tractors. They are intended to lift only loose materials that will fit in the bucket. All cylinders are double-acting. Parking stands support loader so tractor can be "driven in" for quick attaching. Major components of loader are shown in Figure 2-1.

Figure 2-1 Major Component



SECTION III PREPARATION FOR USE

3-1 ATTACHING TO TRACTOR



WEIGHT SHOULD BE APPLIED TO TRACTOR REAR WHEELS AND/OR 3-POINT HITCH TO INCREASE STABILITY.



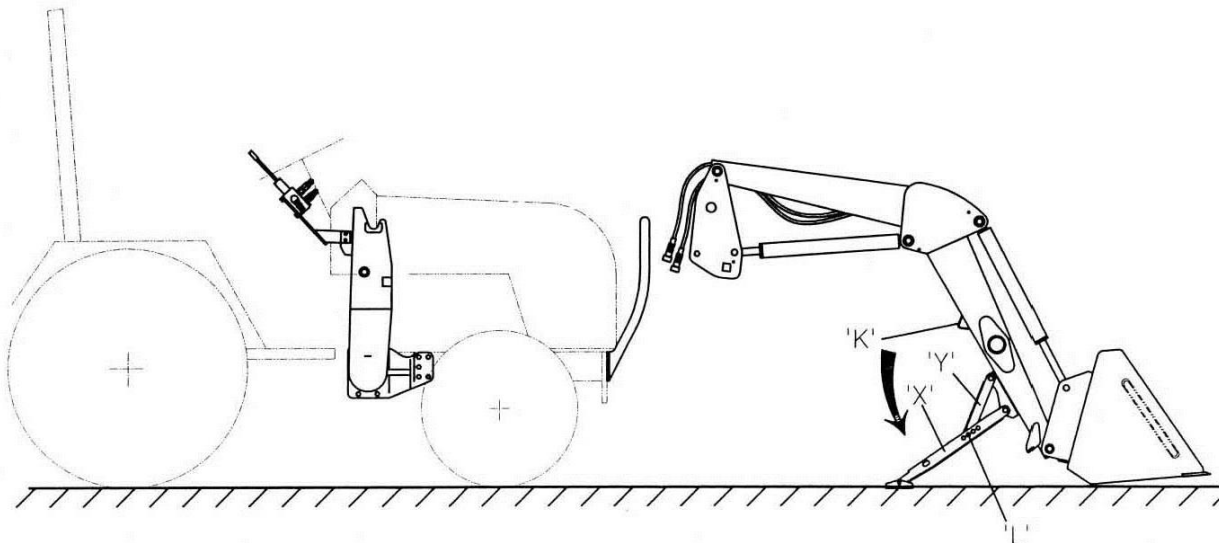
TO AVOID INJURY OR DEATH:

ALWAYS CONNECT LOADER HOSES TO APPROPRIATE TRACTOR AUXILIARY OUTLET. ALWAYS REMOVE OR LOCKOUT TRACTOR'S HYDRAULIC VALVES DETENT POSITIONS FOR LEVER NEUTRAL RETURN WHEN RELEASED.

It is recommended that tractor wheels be moved to the widest setting and rear ballast be applied to increase tractor stability. Three point hitch mounted weights are available from your Branson dealer. Air pressure in front tires should be adequate for heavy loads. Refer to tractor owner's manual for further instructions. Attach loader to tractor as follows:

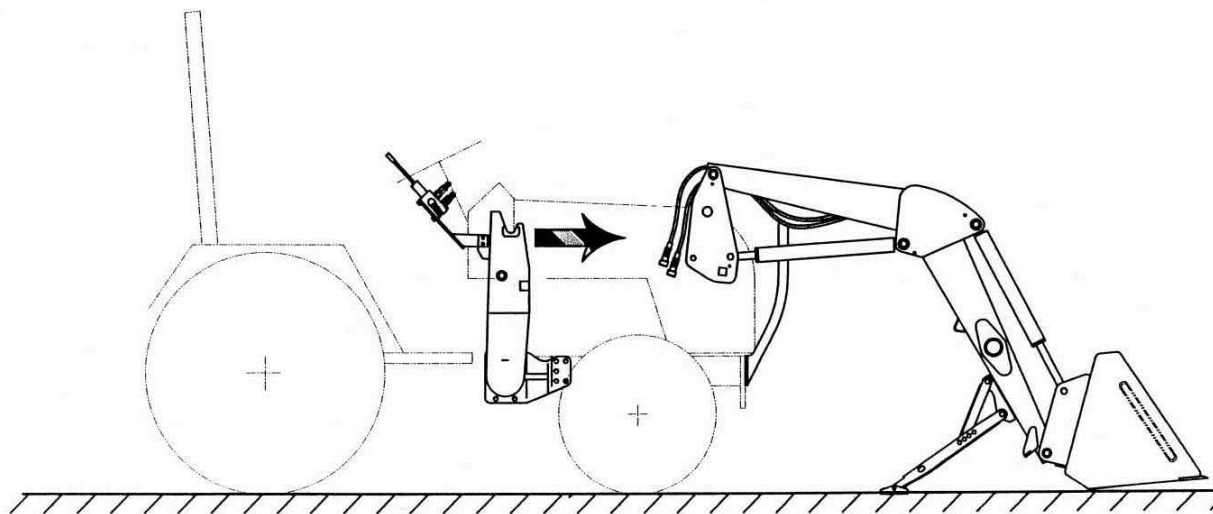
Step 1 : Prepare the Loader (Stand up the Loader)

- A. Remove the Pin and R-Pin from 'K' .
- B. Open the Stand (X) by the Bracket (Y).
- C. Assembly the Pin and R-Pin at the 'L' .



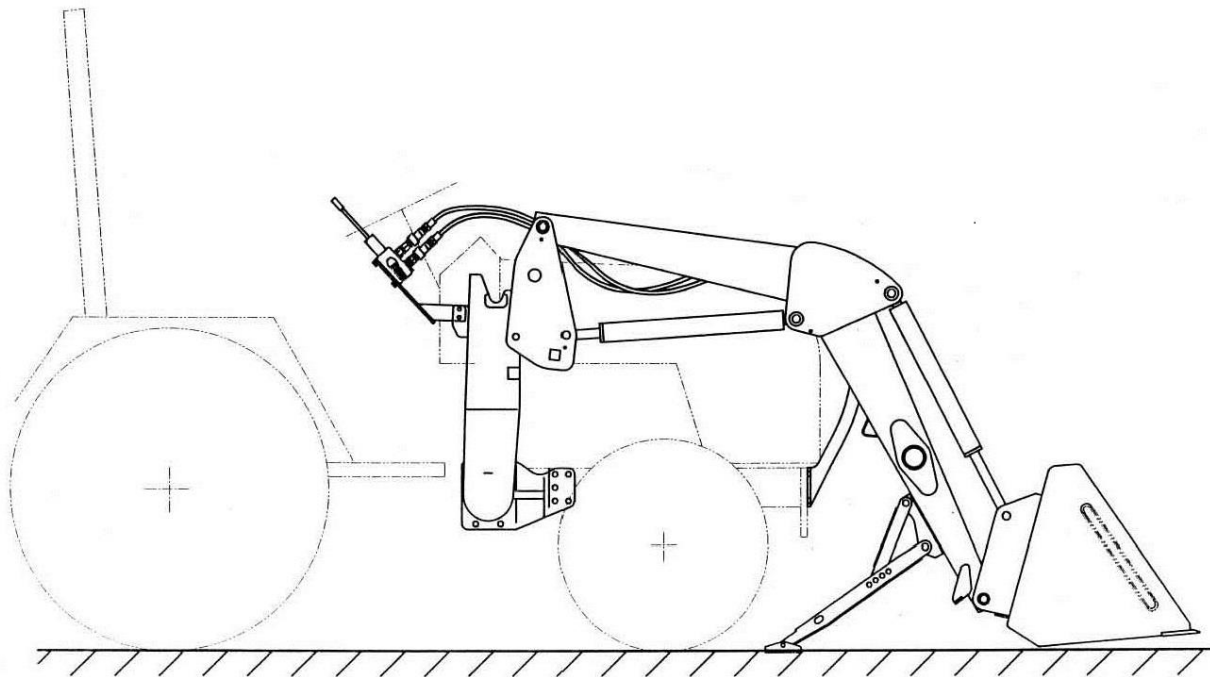
Step 2 : Drive tractor into Loader

A. Slowly drive tractor into loader.



Step 3 : Connect the hydraulic hose

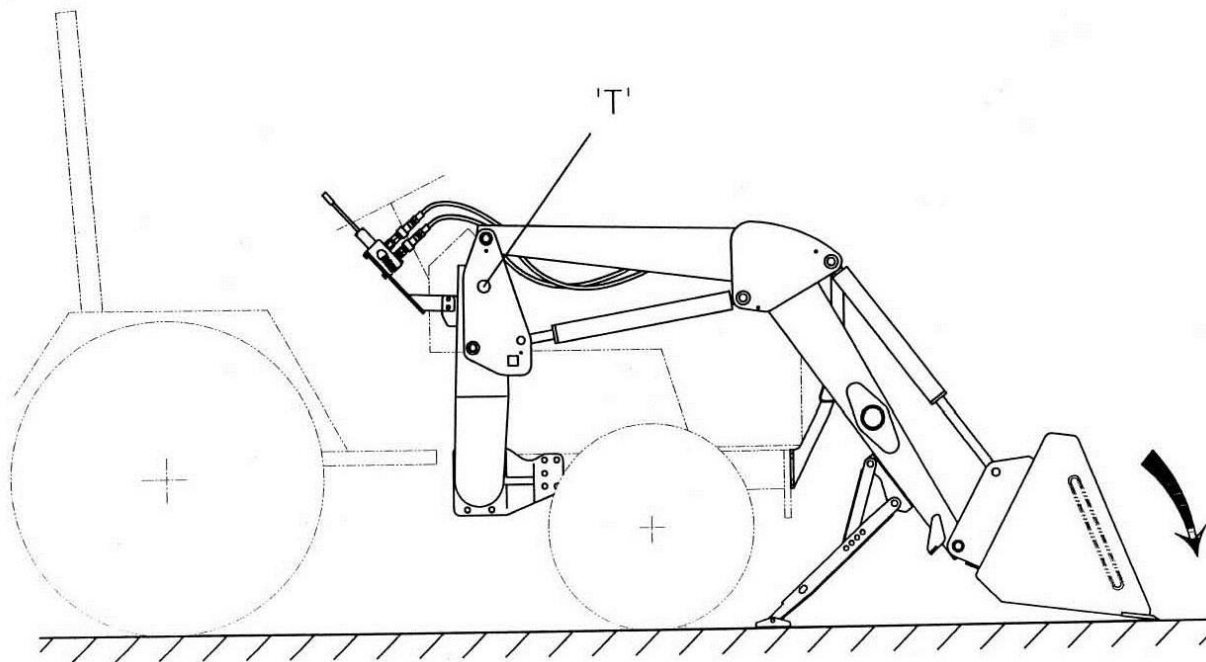
A. Connect the hydraulic quick coupler.



Step 4 : Mount the column on the sub frame

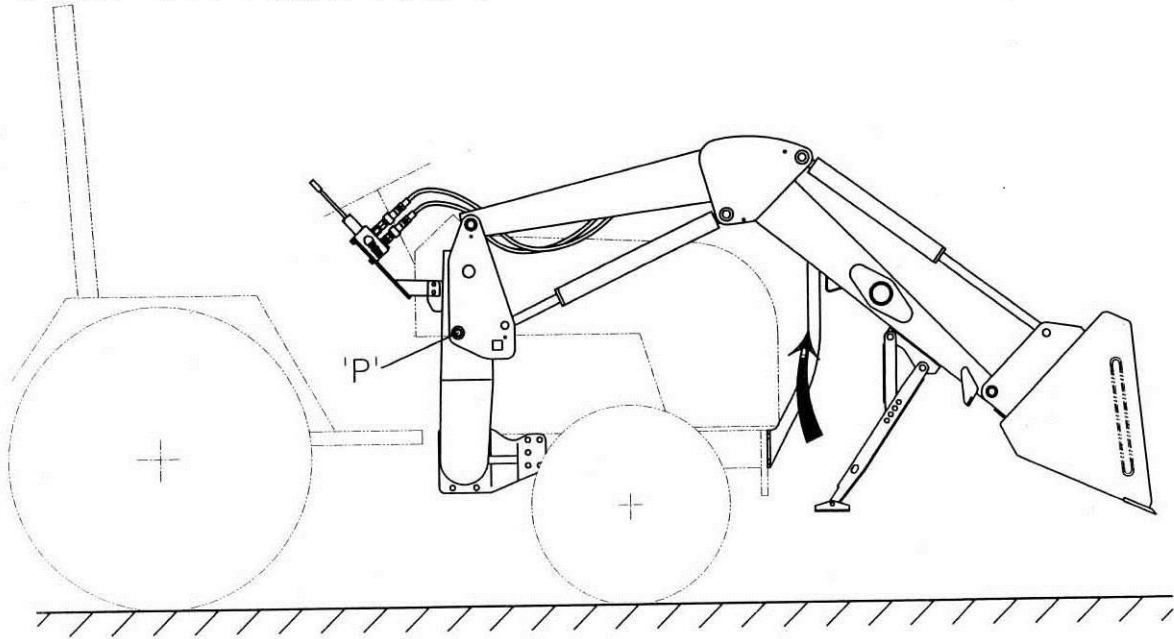
A. Slowly dump the bucket.

※ It may mount the Column RH. and Column LH. on the Sub-Frame point 'T'.



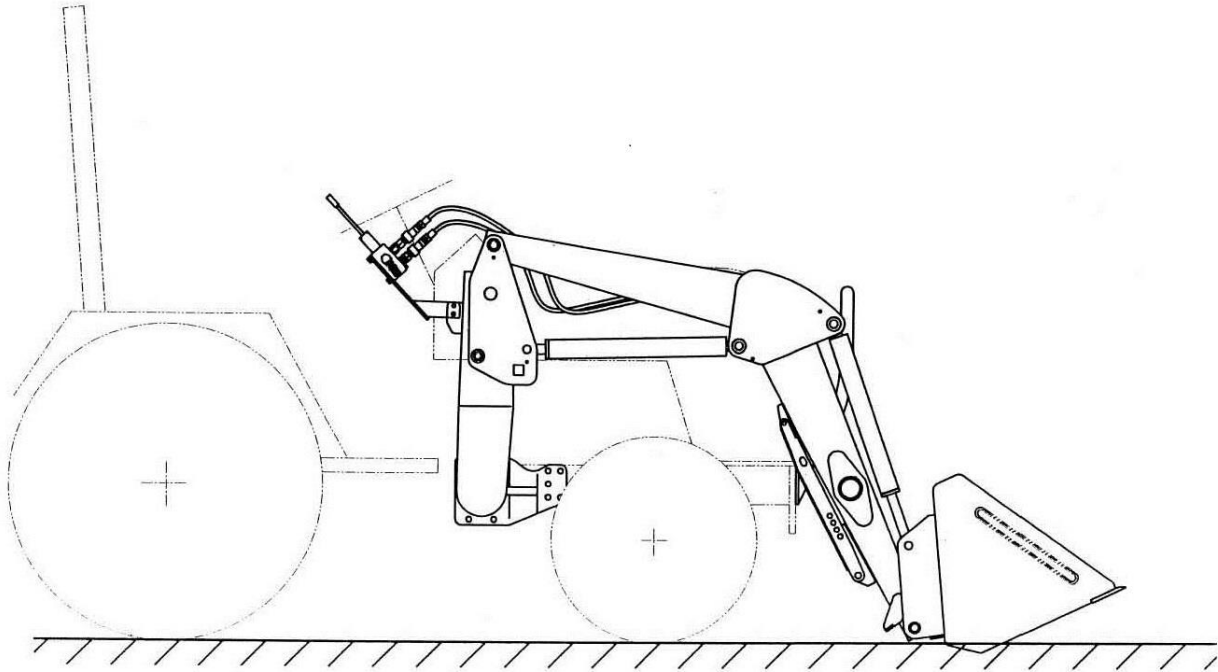
Step 5 : Assemble the Lever-pin

- A. Raise the boom as show.
it may arrange the hole.
- B. Assemble the Lever-Pin 'P'
- C. Close the stand. (Opposite step 1)



Step 6 : Finish

A. Slowly down the Boom and crowd the Bucket.



SECTION IV OPERATING INSTRUCTIONS



DO NOT LIFT ROUND HAY BALES. ROUND BALES CAN ROLL DOWN LOADER ARMS CAUSING SERIOUS INJURY OR DEATH TO OPERATOR.

4-1 GENERAL SAFETY

Only qualified people familiar with this manual should operate this machine. Operator should wear hard hat, safety glasses and safety shoes. The operator should read, understand and practice all safety messages shown on the caution, warning and danger decals affixed to the loader to avoid serious injury or death. It is recommended that tractor be equipped with Rollover Protective System (ROPS) and a seat belt be used. Check for ditches, stumps, holes or other obstacles that could upset tractor or damage loader. Fluid and/or weights for rear tires is recommended for added stability. See tractor operator's manual. Three point hitch mounted weights are available from your Branson dealer. Always turn off tractor engine, set parking brake and lower loader to ground before dismounting tractor. See page 4 for additional safety precautions.

4-2 OPERATION

The loader should be operated with the tractor engine running at 1200–1700 rpm. Excessive speeds are dangerous and may cause bucket spillage and unnecessary strain on both the tractor and loader.

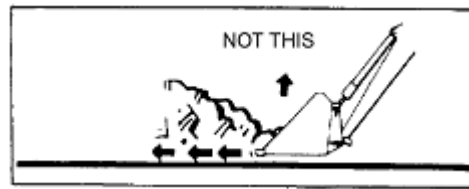
The following text and illustrations offer suggested loader and tractor operating techniques.

FILLING THE BUCKET

Approach and enter the pile with a level bucket. Ease lever back and toward you to lift and rollback the bucket.



The lift and rollback of the bucket will increase efficiency because a level bucket throughout the lifting cycle resists bucket lift and increases breakaway effort.



NOTE: Do not be concerned if the bucket is not completely filled during each pass. Maximum productivity is determined by the amount of material loaded in a given period of time. Time is lost if two or more attempts are made to fill the bucket on each pass

LIFTING THE LOAD

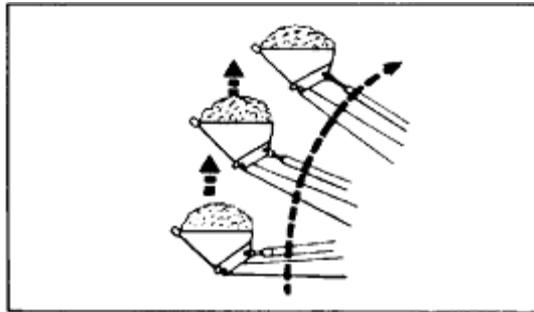
⚠ WARNING ⚠

DO NOT LIFT OR CARRY ANYONE IN THE BUCKET OR ON ANY OTHER POSITION OF THE LOADER OR LOADER ATTACHMENT. INADVERTENT MOVEMENT OF THE LOADER OR ATTACHMENT COULD RESULT IN SERIOUS INJURY OR DEATH FROM FALLING OR CRUSHING.

⚠ CAUTION ⚠

MAKE SURE MATERIAL IN BUCKET CANNOT ROLL OUT AND DOWN ON TRACTOR WHEN BUCKET IS RAISED TO FULL HEIGHT. KEEP CLEAR OF OVERHEAD OBSTRUCTIONS SUCH AS TREES, LIMBS OR POWER LINES WHEN RAISING THE BUCKET.

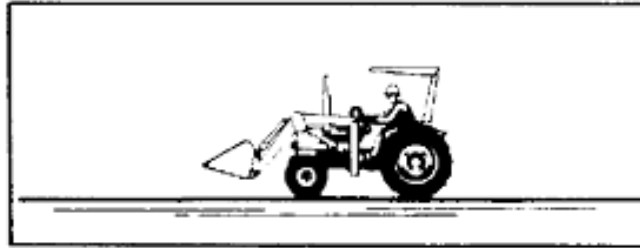
When lifting the load, keep the bucket positioned to avoid spillage.



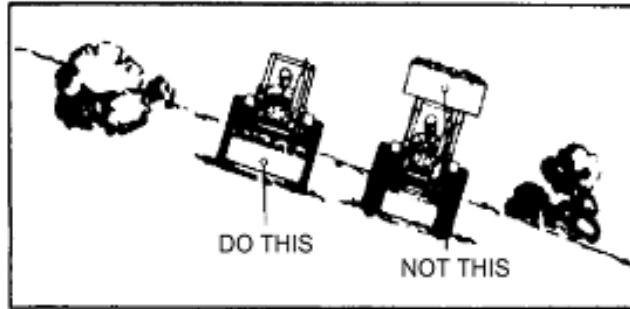
CARRYING THE LOAD

Position the bucket just below the level of the tractor hood for maximum stability and visibility, whether the bucket is loaded or empty.

Use extreme caution when operating the loader on a slope, keep the bucket as low as possible, this keeps the bucket and tractor center of gravity low and will provide maximum tractor stability.



OPERATING THE LOADER ON A HILLSIDE IS DANGEROUS. EXTREME CARE IS RECOMMENDED.

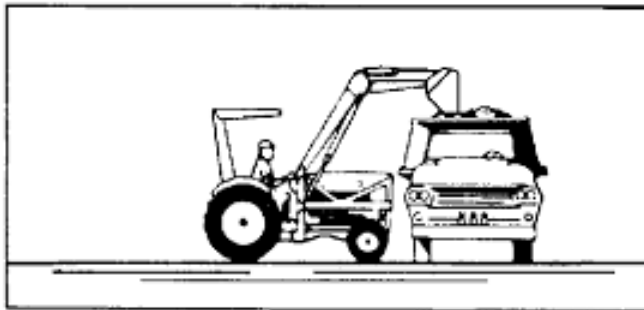


When transporting the load, keep the bucket as low as possible to avoid tipping, in case a wheel drops in a rut.



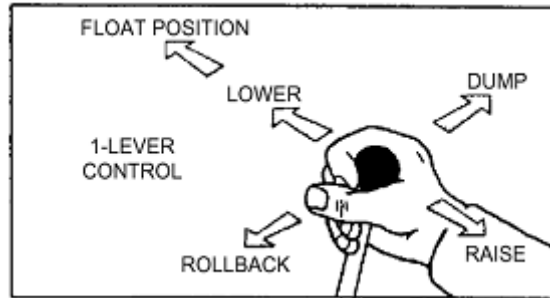
DUMPING THE BUCKET

Lift the bucket high enough to clear the side of the vehicle. Move the tractor in as close to the side of the vehicle as possible, then dump the bucket.



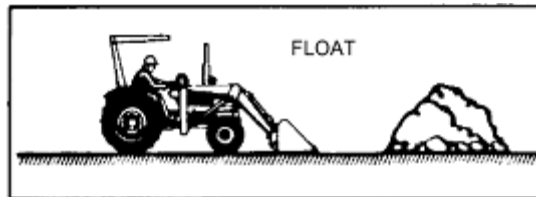
LOWERING THE BUCKET

After the bucket is dumped, back away from the vehicle while lowering and rolling back the bucket.

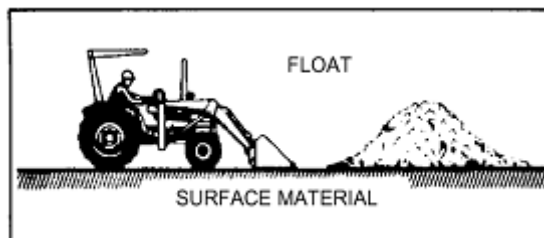


OPERATING WITH FLOAT CONTROL

During hard surface operation, keep the bucket level and put the lift control in the float position to permit the bucket to float on the working surface. If hydraulic down pressure is exerted on the bucket, it will wear faster than normal.

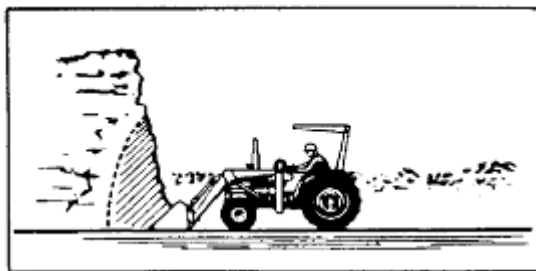


The float will also prevent the mixing of surface material with stockpile material. The float position will reduce the chance of surface gouging when removing snow or other material.

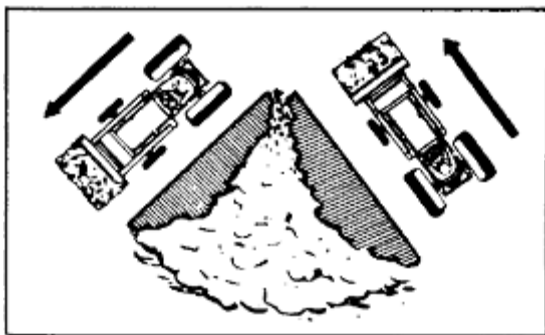


LOADING FROM A BANK

Choose a forward gear that provides sufficient ground speed for loading.



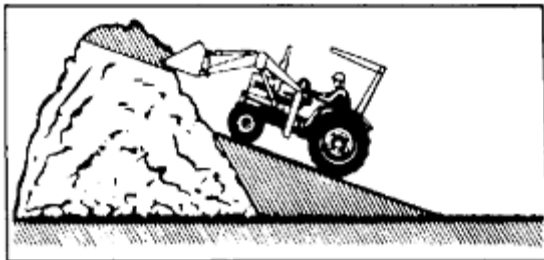
Exercise caution when undercutting high banks. Dirt slides can be dangerous. Load from as low as possible for maximum efficiency. Loader lift and breakaway capacity diminish as loading height is increased.



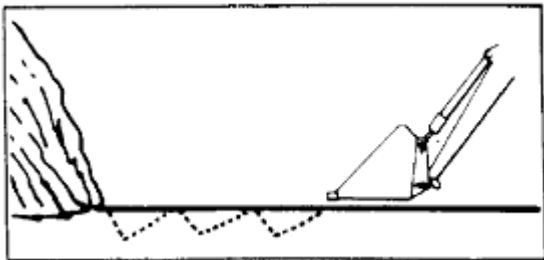
Side cutting is a good technique for cutting down a big pile.



If the pile sides are too high and liable to cause cave-in, use the loader to break down the sides until a slot can be cut over the top.

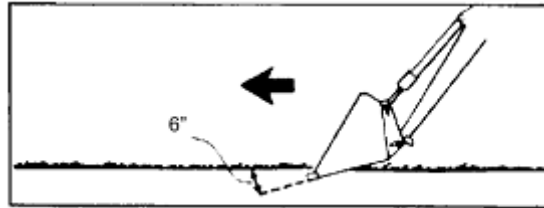


Another method for large dirt piles is to build a ramp approach to the pile.

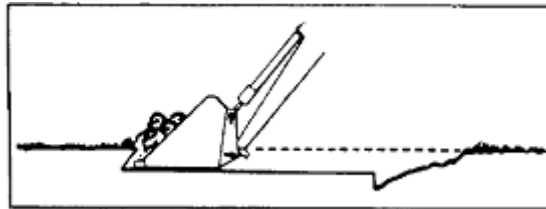


It is important to keep the bucket level when approaching a bank or pile. This will help prevent gouging the work area.

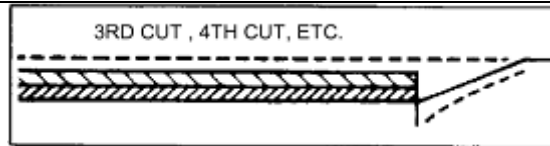
PEELING AND SCRAPING



Use a slight bucket angle, travel forward, and hold the lift control forward to start the cut. Make a short, angle cut approximately 6" deep and break out cleanly.

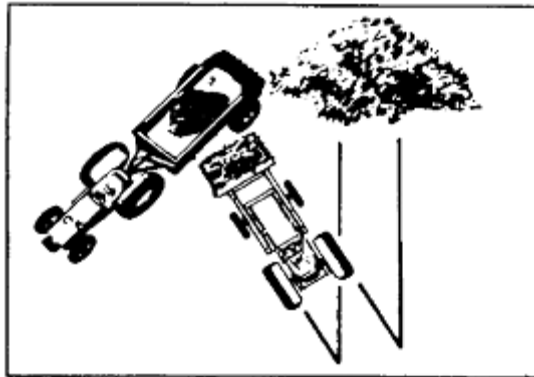


With the bucket level, start a cut at the notch approximately 2" deep. Hold the depth by feathering the bucket control to adjust the cutting lip up or down. When the front tires enter the notch, adjust the lift cylinder to maintain proper depth.



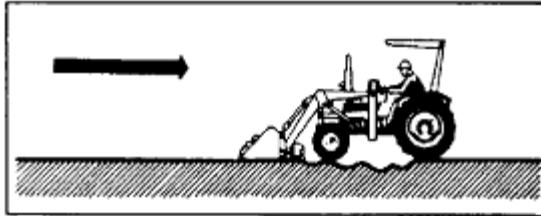
Make additional passes until the desired depth is reached. During each pass, only use the bucket control while at working depth. This will allow you to concentrate on controlling the bucket angle to maintain a precise cut.

LOADING LOW TRUCKS OR SPREADERS FROM A PILE



For faster loading, minimize the angle of turn and length of run between pile and spreader.

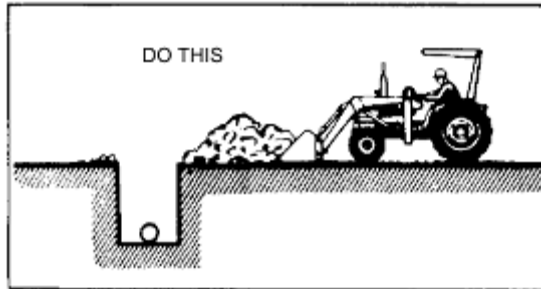
BACKFILLING



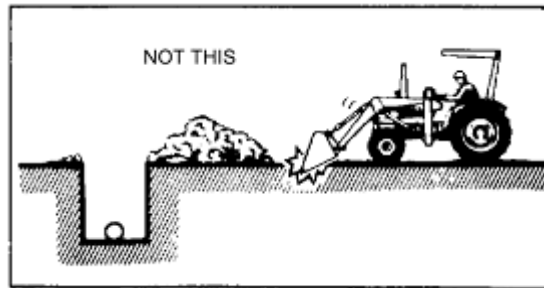
Backgrade occasionally with a loaded bucket to keep the working surface free of ruts and holes. Hold the lift control forward in **FLOAT POSITION** so the **full weight** of the bucket is scraping the ground. Use only the heel of the bucket while backgrading.

IMPORTANT: To prevent damage to cylinders:

- (1) Do not backgrade with bucket cylinders extended.
- (2) Always backgrade with valve in **float position**.

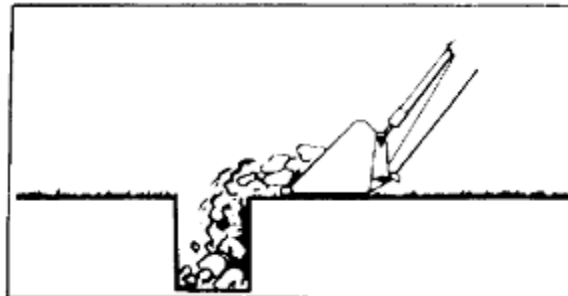


approach the pile with a flat bucket.

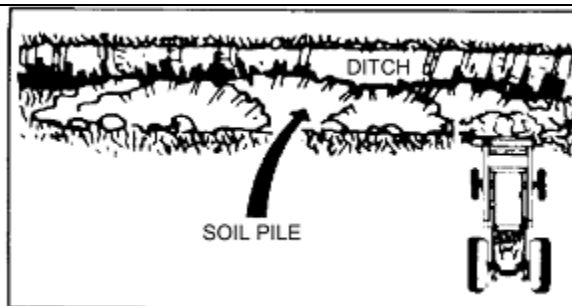


Poor methods actually move no more dirt and make it more difficult to hold a level grade.

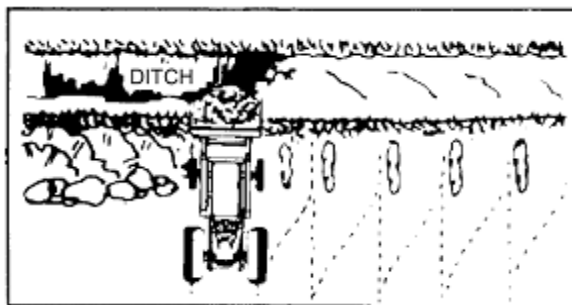
Do not use the bucket in the dumped position for bulldozing or backgrading. This method, shown above, will impose severe shock loadings on the dump linkage, the bucket cylinder, and the tractor.



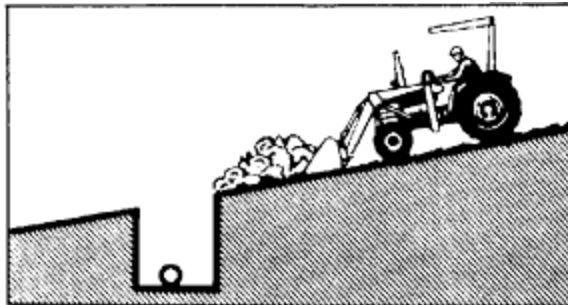
Leave dirt in the bucket because dumping on each pass wastes time.



Operate at right angles to the ditch. Take as big a bite as the tractor can handle without lugging down.



Leave dirt which drifts over the side of the bucket for final clean-up.



Pile dirt on the high side for easier backfilling on a slope.

HANDLING LARGE HEAVY OBJECTS

WARNING

Do not use front end loaders for handling large, heavy objects such as large, round or rectangular bales, logs and oil drums.

Handling large heavy objects can be extremely dangerous due to:

- Possibility of rolling the tractor over.
- Possibility of upending the tractor.
- Possibility of the object rolling or sliding down the loader arms onto the operator.

4-3 TRANSPORTING

When transporting on road or highway, day or night, use tractor flashing warning lights unless prohibited by law. Carry load as low as possible maintaining adequate ground clearance and visibility. Reduce tractor ground speed when transporting a load. Take extra care when traveling over rough terrain or on slopes.



WHEN TRANSPORTING THE LOAD, KEEP THE BUCKET AS LOW AS POSSIBLE TO RESIST TIPPING, IN CASE A WHEEL DROPS IN A RUT. THIS WILL AVOID TIPPING AND POSSIBLE INJURY.

4-4 LOADER DETACHING AND STORAGE

NOTE

When loader hydraulics are disconnected from tractor the tractor hydraulic circuit must be completed. Failure to do so will result in tractor hydraulic pump damage.

A. Remove parking stands from storage. Raise boom and install as shown in Figure 3-1.



NEVER STAND UNDER LOADER WHILE INSTALLING/REMOVING PARKING STANDS.

B. Lower boom until parking stands contact ground.

C. Extend bucket cylinders (dump) until cutting edge of bucket is firmly on the ground.

D. Remove pin from front mounting bracket.

E. Remove nuts and clamps securing loader sub-frame to rear mounting bracket.

F. With tractor at IDLE SPEED carefully roll bucket back until sub-frame raises off rear bracket.

G. Carefully activate boom cylinders until cross tube is free of pressure within front bracket channel.

H. Disconnect hydraulic hoses.

I. Carefully back tractor out of loader.

J. Pin clamps back to sub-frame and place pin back in front mounting bracket for storage.

K. Clean dirt and debris from loader. Dirt will hold moisture and cause rust.

L. If loader is to be stored for an extended period of time, perform lubrication per paragraph 4-2 Also apply a coat of heavy grease to exposed cylinder rods to prevent rusting.

SECTION V MAINTENANCE

5-1 MAINTENANCE CHECK LIST

Perform scheduled maintenance as outlined below. Lower machine to ground, turn off tractor and set parking brake before doing maintenance inspections or work. All bolts should be torqued as recommended in torque chart on inside of back cover unless otherwise indicated.



CAUTION

USE A PIECE OF CARDBOARD OR WOOD RATHER THAN HANDS AND WEAR EYE PROTECTION WHEN SEARCHING FOR HYDRAULIC LEAKS. ESCAPING HYDRAULIC OIL UNDER PRESSURE CAN PENETRATE SKIN. IF OIL IS INJECTED INTO SKIN, IT MUST BE SURGICALLY REMOVED WITHIN A FEW HOURS BY A DOCTOR OR GANGRENE MAY RESULT.



WARNING

THE LOADER CAN FALL FROM HYDRAULIC SYSTEM FAILURE. TO AVOID SERIOUS INJURY OR DEATH, SECURELY SUPPORT LOADER BEFORE WORKING UNDERNEATH.

BEFORE EACH USE

1. Inspect hydraulic lines and fittings for wear or leaks. Repair or replace if needed.
2. Inspect all pivot pins for wear. Make certain cotter pins are installed to retain each pivot pin.
3. Check all bolts for tightness.
4. Perform BEFORE EACH USE lubrication per paragraph 5-2.
5. During operation, listen for abnormal sounds which might indicate loose parts or other damage.

AFTER EACH USE

1. Clean all debris from machine.

5-2 LUBRICATION (Figure 5-1)

NOTE

The multipurpose grease referenced in this section is an NLGI Grade 2 type grease.

BEFORE EACH USE

1. Boom Pivot Pins- Apply multi-purpose grease to each fitting (1 fitting each side)
2. Boom Cylinders- Apply multi-purpose grease to each fitting (2 fittings each cylinder)
3. Bucket Cylinders- Apply multi-purpose grease to each fitting (2 fittings each cylinder)
4. Bucket Pivot Pin- Apply multi-purpose grease to each fitting (1 fitting each side)
5. Link Pivot Pin- Apply multi-purpose grease to each fitting (2 or 3 fitting each side)
6. Tractor Hydraulic Oil- Cycle boom and bucket cylinders 2 or 3 times before use then check tractor hydraulic oil level per tractor operator's manual.

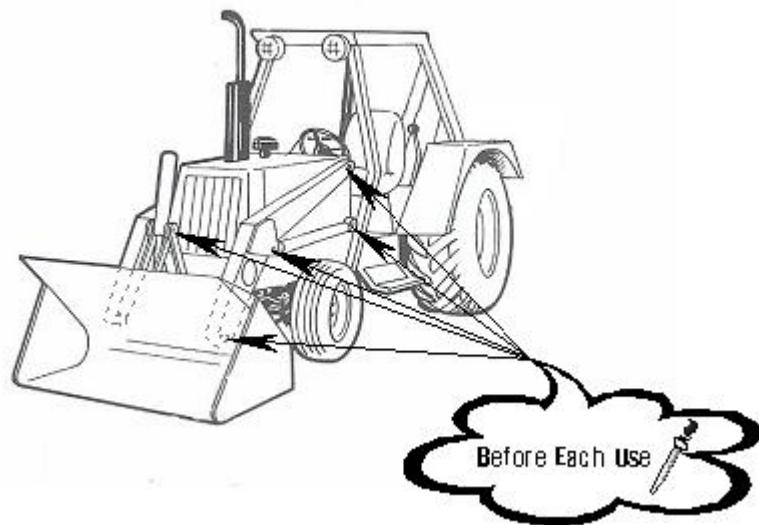


Figure 5-1 Lubrication Points

5-3 HYDRAULIC SYSTEM PRESSURE REQUIREMENTS

A tractor hydraulic system pressure setting of 2400 psi is recommended for maximum efficiency and service. The Branson control valve is pre-set at factory and should not be adjusted

5-4 TROUBLESHOOTING

Troubleshooting procedures are listed in table 5-1. If the problem cannot be solved or replacement parts are necessary, contact your authorized Branson dealer. Please have ready your machine name, model number, serial number, purchase date, and exact cause or description of problem.

TABLE 5-1

PROBLEM	POSSIBLE CAUSE	REMEDY
1. Loader slow and/or will not dump.	Hydraulic oil too heavy. Oil filter plugged. Hydraulic pump worn. Oil line restricted or leaking. Quick couplers not properly connected. Control valve does not shift properly. Air in hydraulic system. Cylinder leaks internally. Faulty valve.	Change to proper oil. Clean or replace filter. Repair or replace pump. Check all hoses and tubes for leaks, damage or restrictions. Replace damaged or restricted hoses or tube lines. Check connection – Replace if necessary. Inspect, clean, repair or replace valve. Cycle lift cylinders and bucket cylinders several times to free system of air. Replace seals. Replace or repair valve.

PROBLEM	POSSIBLE CAUSE	REMEDY
2. Loader chatters or vibrates when raising or lowering.	Air leak in pump inlet line. Air in hydraulic system. Oil level too low.	Check, tighten or replace inlet line. Cycle lift and bucket cylinders. Add oil as required.
3. Pump noisy.	Inlet line restricted or leaking. Oil level too low. Pump worn or damaged.	Check for air leaks restrictions or collapsed hose. Tighten or replace hose. Clean filter if necessary. Add oil as required. Repair or replace pump.
4. Oil leaks.	Defective fittings or hoses. Loose Connections. Worn or damaged O-ring or wiper seal in cylinder rod end. Worn or damaged O-rings in valve.	Replace defective parts. Tighten fittings. Install a seal repair kit. Install an O-ring repair kit.

PROBLEM	POSSIBLE CAUSE	REMEDY
5. Insufficient lift capacity.	Improper hydraulic pump operation. Load is greater than boom lift capacity. Internal boom cylinder leakage. Improper hydraulic valve operation.	Repair or replace pump. Check loader specifications. Replace any worn parts and install a seal repair kit. Repair or replace valve.
6. Excessive wear on bucket	Bucket is riding on cutting edge instead of wear pads.	Use boom "FLOAT" position or bucket level indicator to ensure bucket rides on wear pads.
7. Slow leakdown.	Worn control valve. Worn cylinder piston seals.	Have authorized Branson dealer replace seals.
8. Hydraulic cylinders inoperative.	Hose from control valve improperly connected.	Refer to plumbing diagrams in Section V.
9. Loader lift and bucket tilt controls do	Hoses improperly connected.	Refer to plumbing diagrams in Section V and correct hose connections.

SECTION VI INSTALL INSTRUCTION

⚠ CAUTION ⚠

THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE THOROUGHLY UNDERSTOOD BEFORE ATTEMPTING MACHINE ASSEMBLY.

1. Do not lift heavy parts or assemblies. Use crane, jack, tackle, fork trucks, or other mechanical devices.
2. Select an area for assembly that is clean and free of any debris which might cause persons working on the assembly to trip.
3. Arrange parts to be assembled neatly in the work area and have tools and other mechanical assisting devices in easy reach.
4. Inspect all parts and assemblies thoroughly and remove any sharp edges, grease, oil, or dirt which might cause pieces to slip when handling.
5. Preview the assembly instructions in your operator's manual before proceeding further.
6. If the assembly instructions call for parts or assemblies to be blocked up, use only blocking material that is in good condition and is capable of handling the weight of the assembly to be blocked. Also, insure that the blocking material is on a clean, dry surface.
7. Never put hands or any other body under blocked up assemblies if at all possible.
8. Always wear goggles or safety glasses when hammering, grinding or drilling metal parts.
9. If the assembly calls for welding or cutting, be sure that there are no flammable materials close at hand and that bystanders have taken necessary precautions.

AFTER COMPLETING ANY ASSEMBLY STEP, THOROUGHLY READ THE NEXT STEP IN THE ASSEMBLY INSTRUCTIONS BEFORE PROCEEDING WITH THAT STEP.

10. After completing assembly, thoroughly inspect the machine to be sure that all nuts, bolts, hydraulic fittings or any other fastened assemblies have been thoroughly tightened.
11. After completing assembly be sure that all safety locking devices or guards are in place.
12. Before operating the machine, thoroughly read the operation section of this manual.

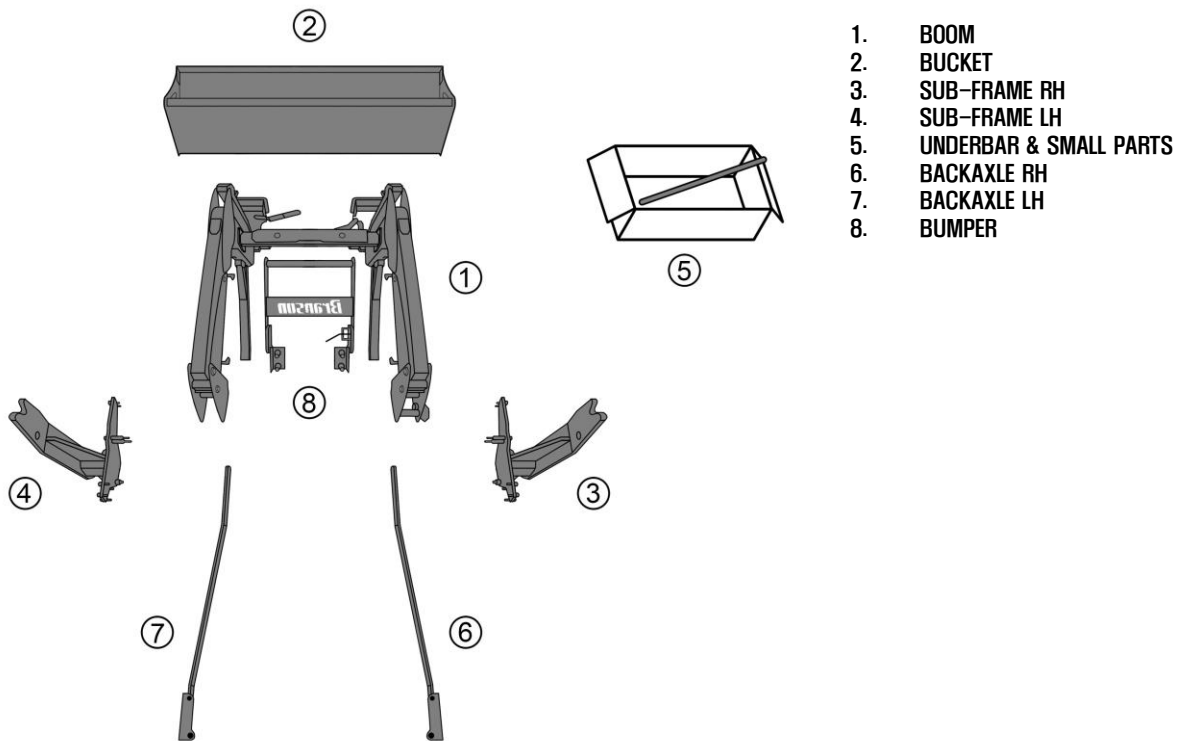
13. Before operating, read the maintenance section of this manual to be sure that any parts requiring lubrication such as gearboxes are full to avoid any possible damage.
14. Wear personal protective equipment such as, but not limited to, protection for eyes, ears, feet, hands, lungs and head when assembling the equipment. Do not wear loose clothing or jewelry that may catch on equipment moving parts.

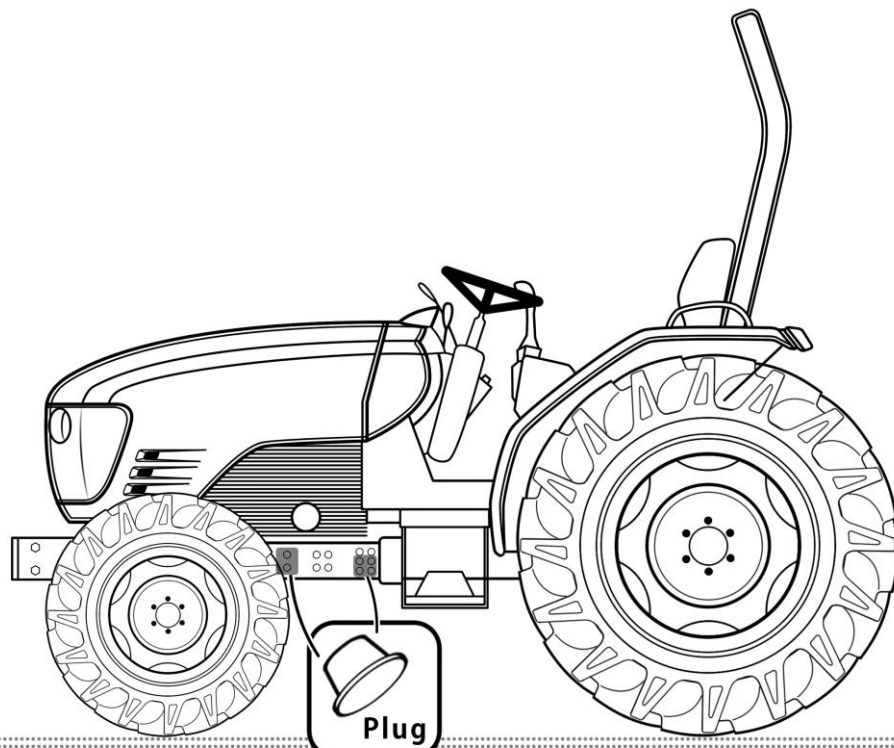
BEFORE OPERATING THE EQUIPMENT, IF YOU HAVE ANY QUESTIONS REGARDING THE PROPER ASSEMBLY OR OPERATION, CONTACT YOUR AUTHORIZED BRANSON DEALER OR REPRESENTATIVE.

6-1 ASSEMBLY

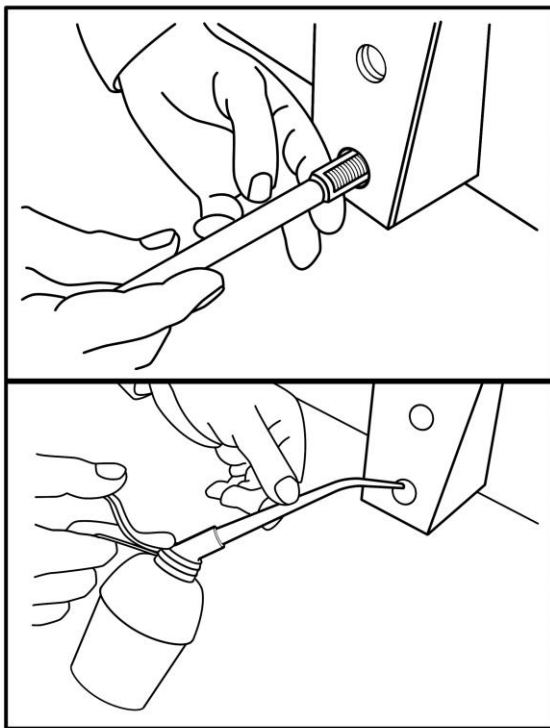
INSTALL PRECAUTION

Please read the Tractor operator's manual for Safety and Operation before installing the Loader.

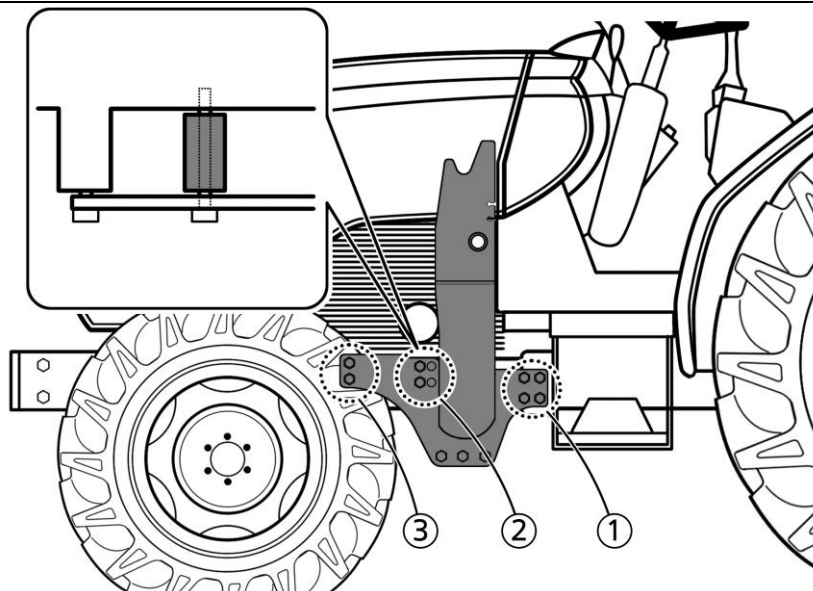




1. Locate the tractor on a firm level surface, stop the engine, and secure the parking brake.
2. Remove the rubber plug where is as shown.



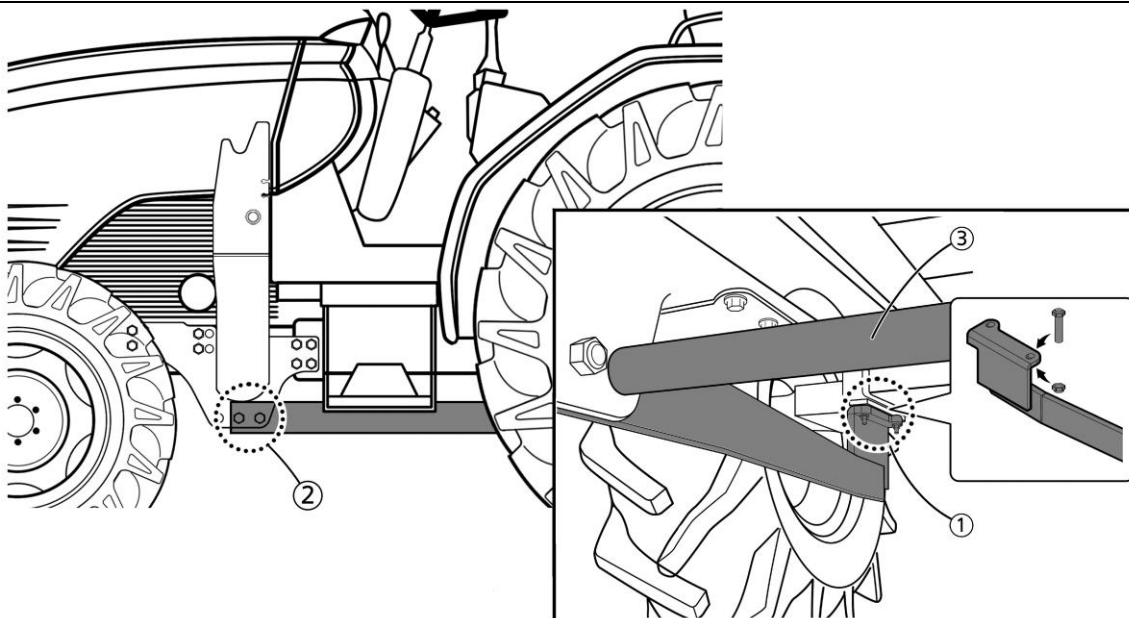
3. Clean and grease the threaded holes in the tractor chassis as shown above.
4. Carry the Sub-frame kit, Boom, Bucket from packing pallet.



5. Install the Left, and Right Sub-Frame as above shown.

- ①. - 4-M16x45L BOLT
- 4-M16 SPRING WASHER
- ②. - 2-M12x125L BOLT
- 2-M12 SPRING WASHER
- 2- $\varnothing 27 \times \varnothing 19.4 \times 69 \text{L}$ SPACER
- ③. - 2-M14x50L BOLT
- 2-M14 SPRING WASHER

Important – Do not tighten any bolts firmly until most components are attached to the tractor.



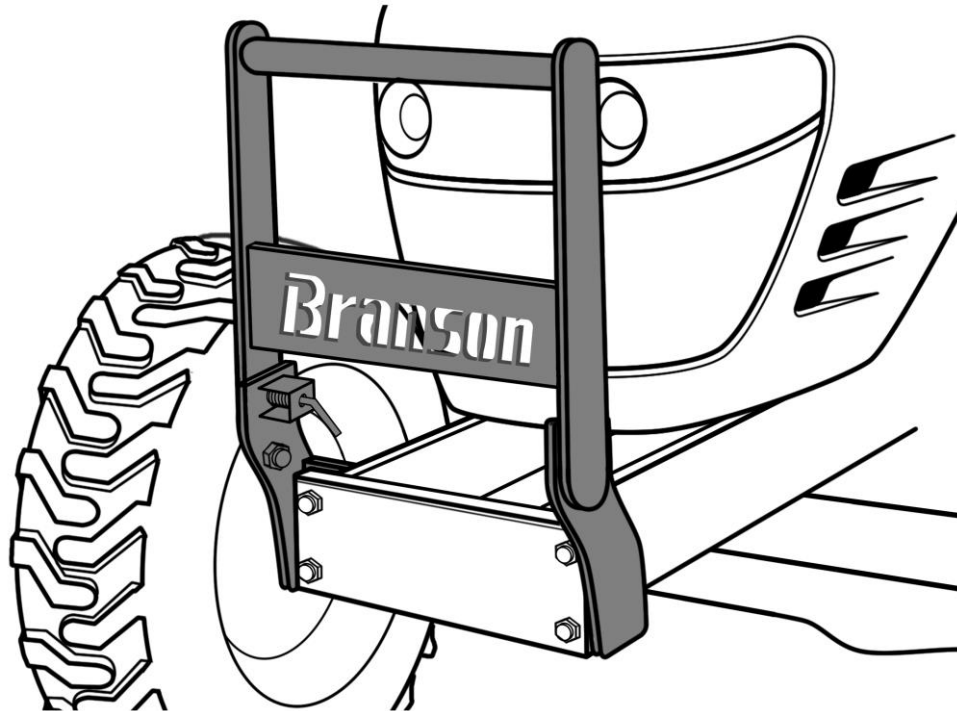
6. Install the Left, and Right Back Axle as above shown.

①. By using Bolt for fixing Rops Frame which is offered from Tractor itself install as above shown.

- ②. - 2-M20x70L BOLT
 - 2-M20 SPRING WASHER
 - 1-M20 NUT

③. Install the Cross Bar(C30-09-6100) following picture's Sub-Frame inside.

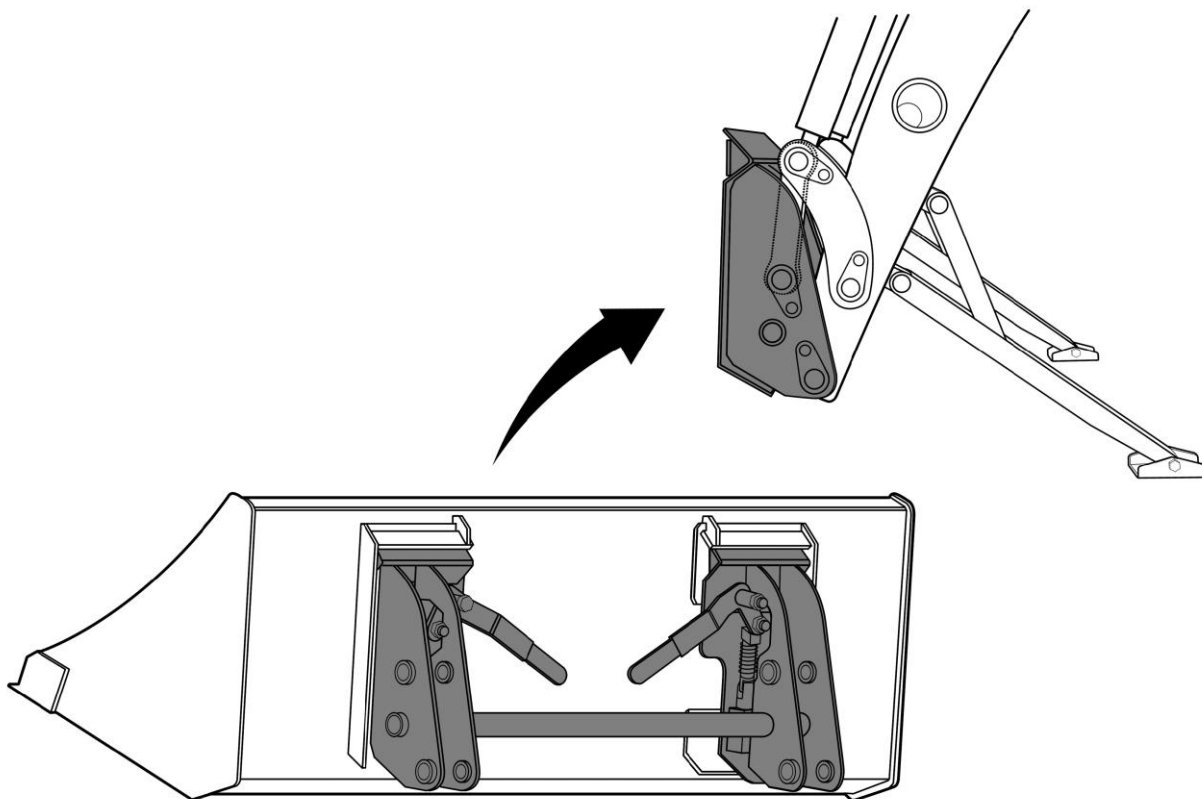
Important – All Bolts should be assembled with using adequate Torque In compliance with the Torque Specification Chart " Page 71 ".



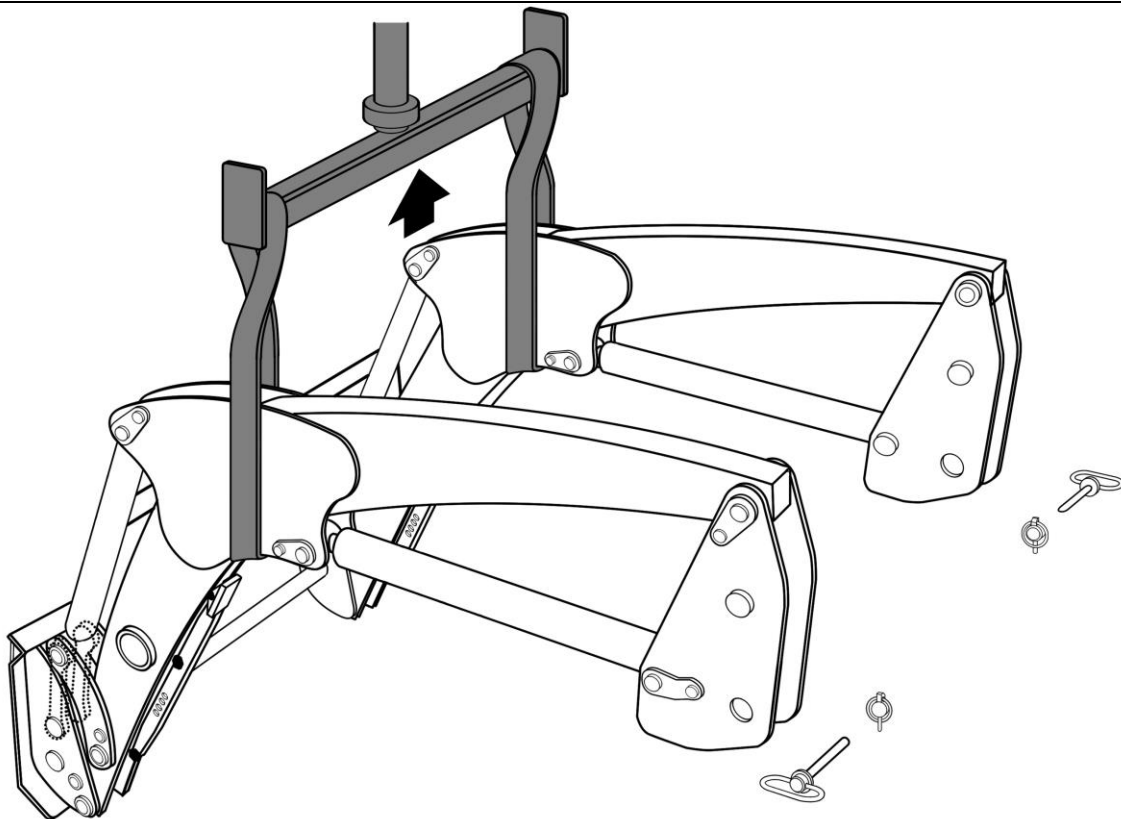
7. As above shown, Assemble the Bumper to the Front axle frame.

- 4-M16x80L BOLT
- 4-M16 SPRING WASHER
- 4-M16 NUT

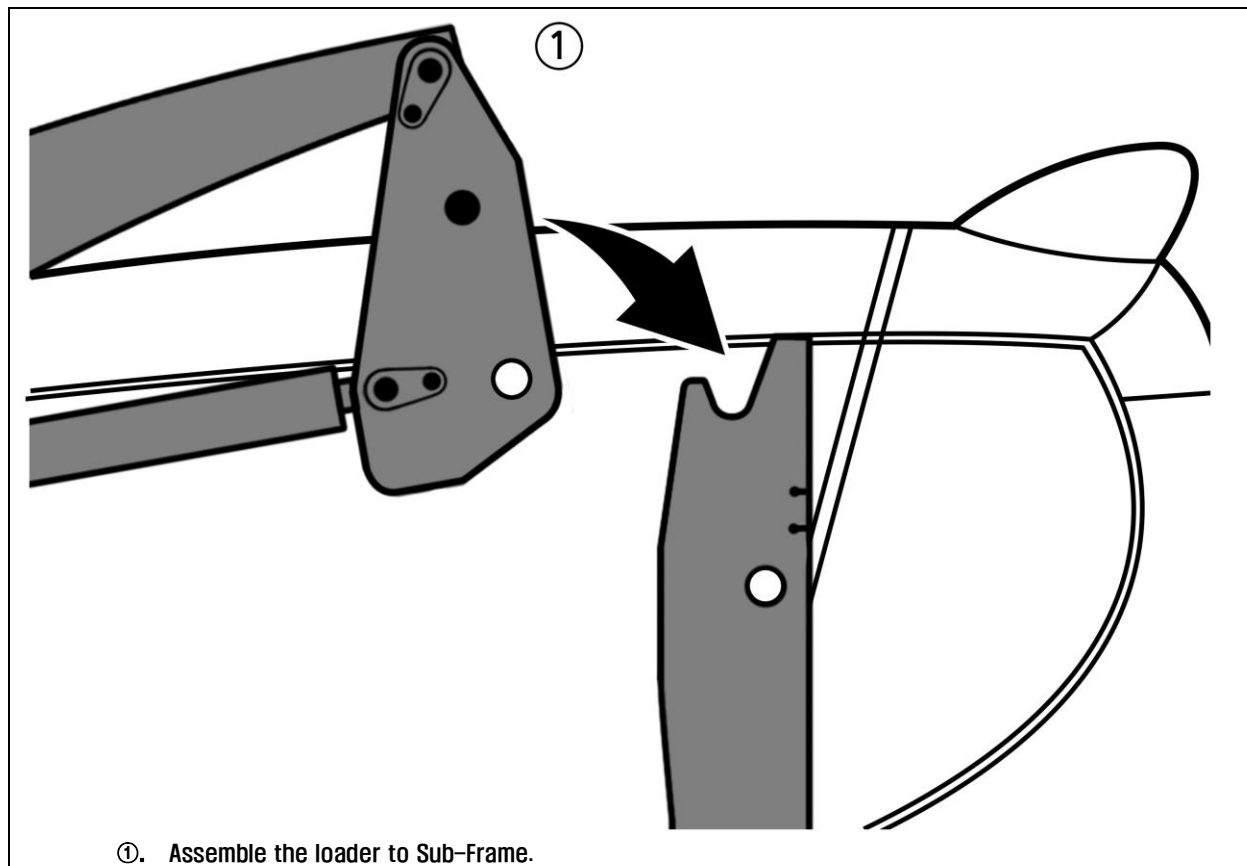
Important – Referring to picture. Ensure that the mounting direction of the bumper.

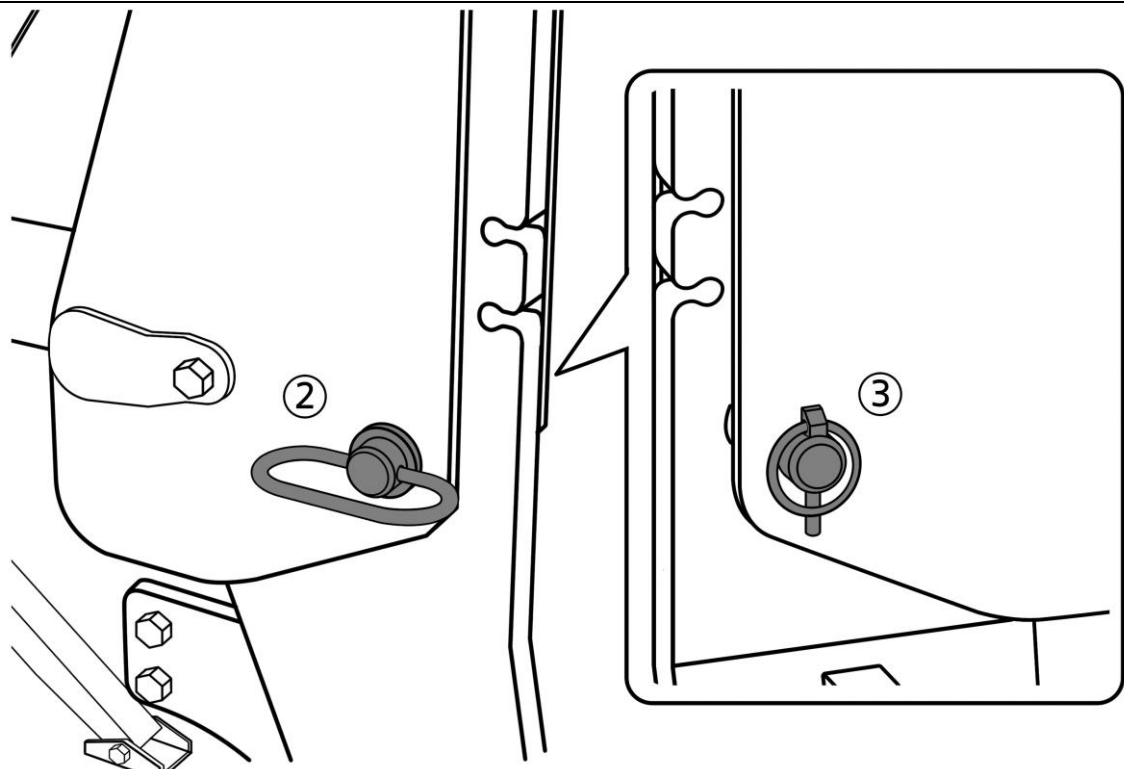


8. Remove the Skid Steer Coupler from Bucket, and assemble as above shown.

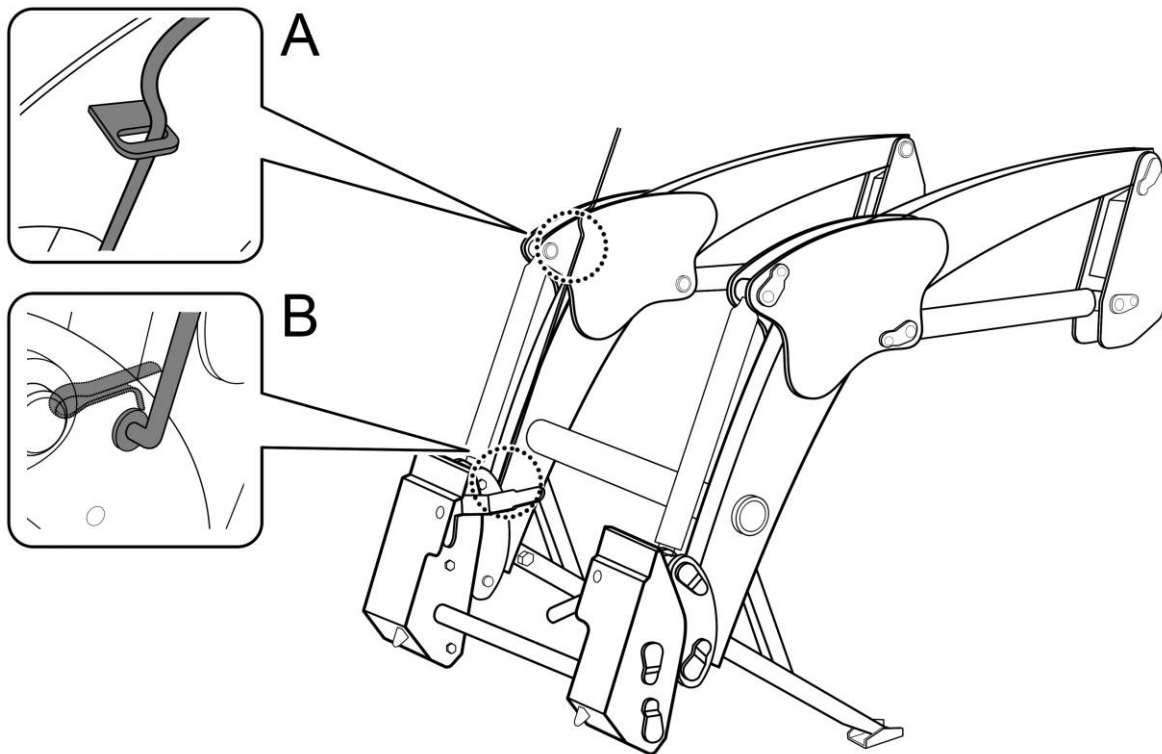


9. As shown above, hang up at the center of gravity of Boom ass'y and move.





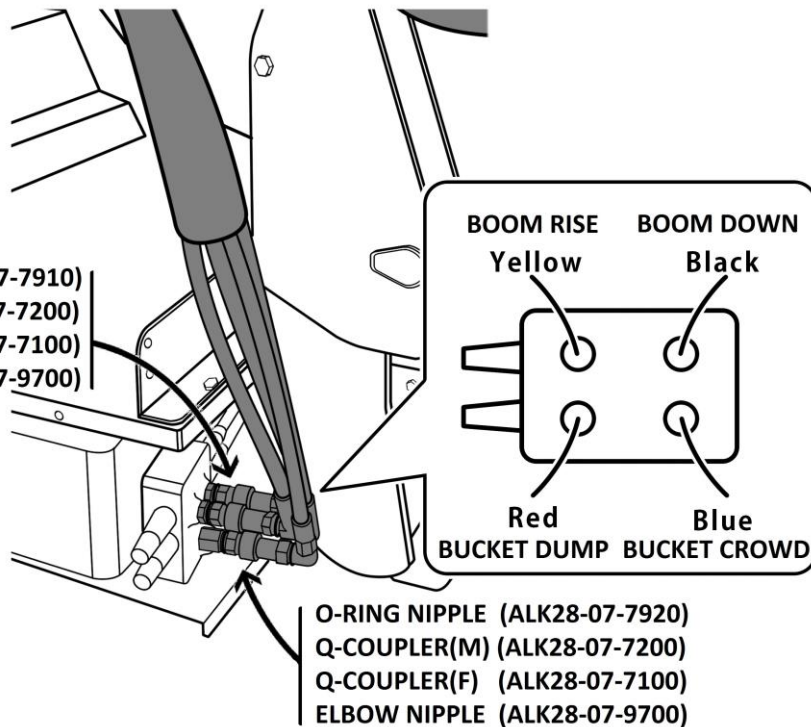
- ②. Install the Pin (P25-1030)
- ③. As above shown, secure Link Pin (AL20-98-9990) which is located inside.



10. Assemble the Indicator as above shown.

- ①. 1-INDICATOR 2540A-450A
- ②. 1-SPLIT PIN (Ø3) PD03025

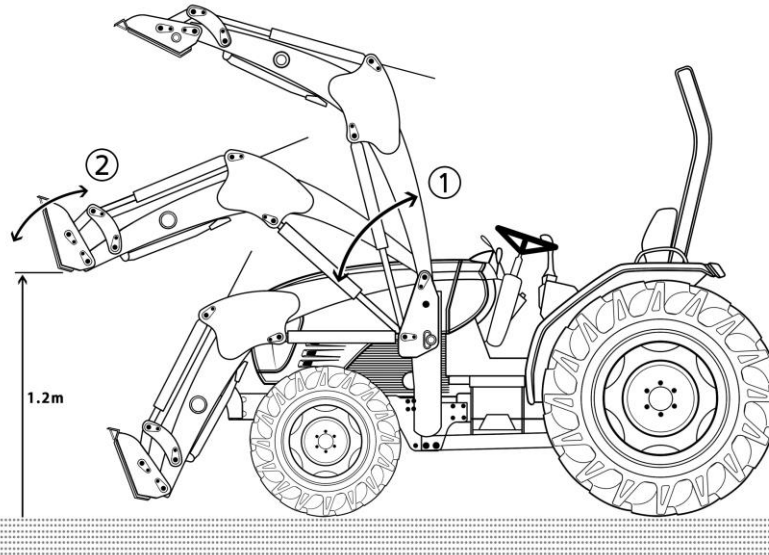
O-RING NIPPLE (ALK28-07-7910)
Q-COUPLER(M) (ALK28-07-7200)
Q-COUPLER(F) (ALK28-07-7100)
ELBOW NIPPLE (ALK28-07-9700)



11. Connect four hydraulic hoses, with quick couplers, between the hydraulic tube lines and the control valve as indicated with color marks. Then connect the protective caps and plugs to each other.

Important – Check again the bolt's fastening torque, and each Pin has enough grease inside.

※ Refer page 64 for BL25R1



12. After a few minutes warming up the engine by turning on the tractor,

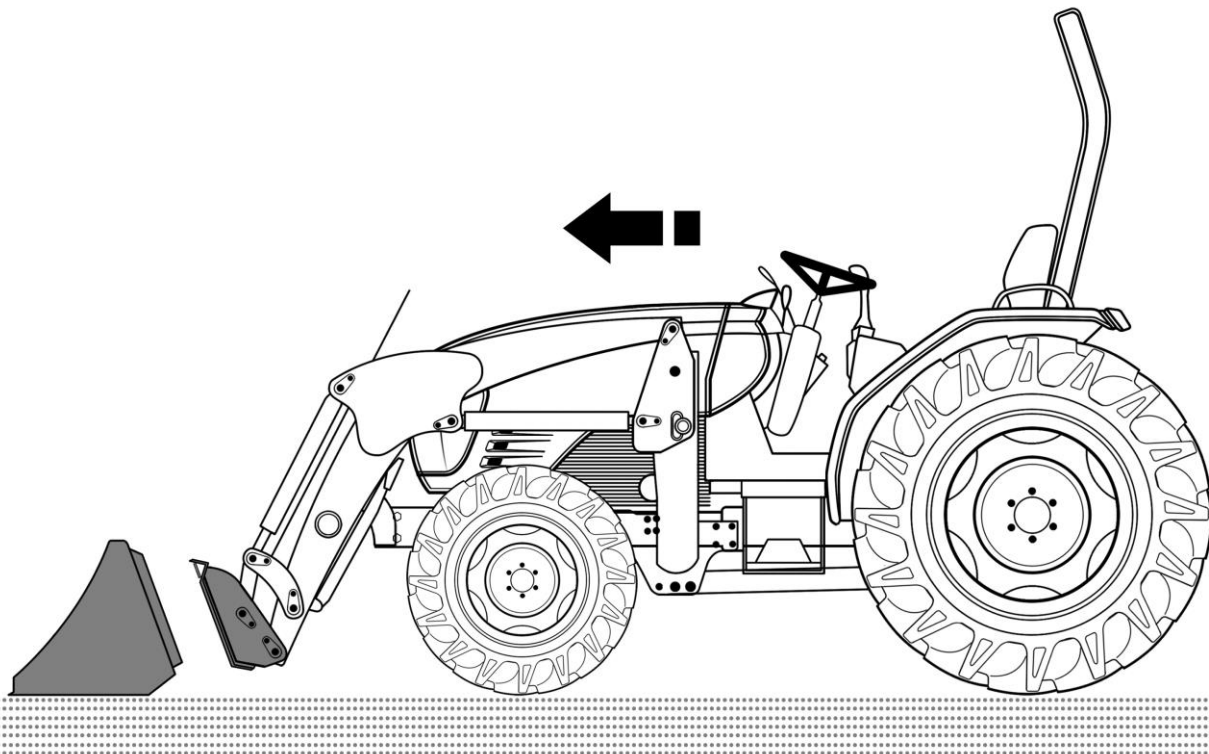
- ①. Operate the boom to Rise and Down 6 times,
- ②. Operate full stroke dump and crowd 6 times at 1.2m from ground,
- ③. Check the tractor transmission fluid level, add it necessary.

Refer to the tractor operator's manual for instructions and proper fluid.

Repeat this check after purging air from the system. At that time, it will be necessary to add transmission fluid.

Important1 – To check the transmission fluid level, lower the loader to the ground and lower the 3 point hitch.

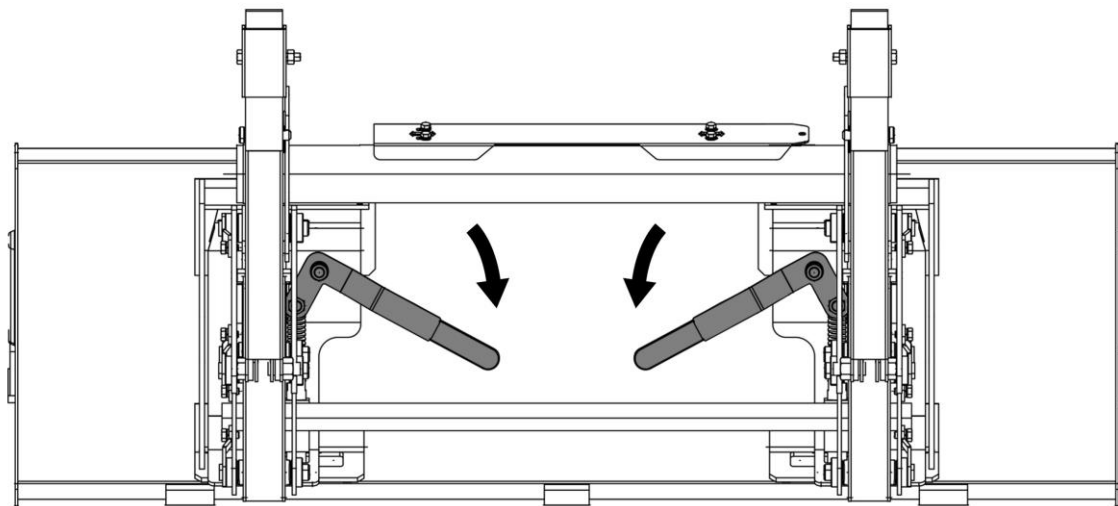
Important2 – While using the loader, when the leakage of hydraulic oil or hydraulic circuit components replace, should check the amount of oil



13. Put the bucket position to front of tractor.

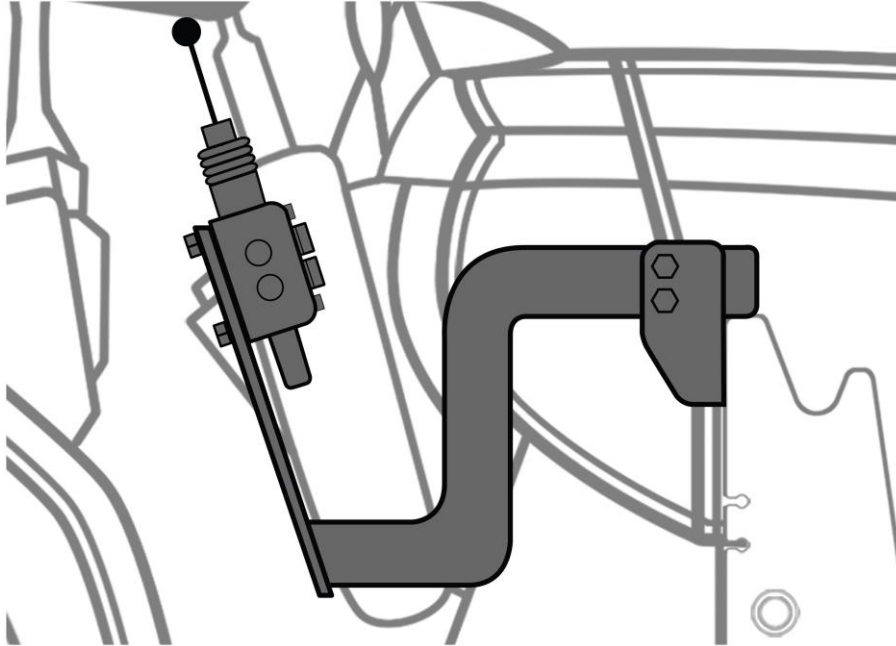
Engage the bucket to Skid Steer Coupler by drive forward the tractor

Important – Remove the vicinity objects around the tractor, far from the tractor except for operator as well.



14. When the Bucket is properly seated in the saddle and against the front of the skid steer coupler plate, turn off the engine and set the parking brake. Push the skid steer coupler handles to the fully latched position. Verify both latching pins are completely engaged in the base of the Bucket.

※Assembly for BL25R1 Hydraulic parts

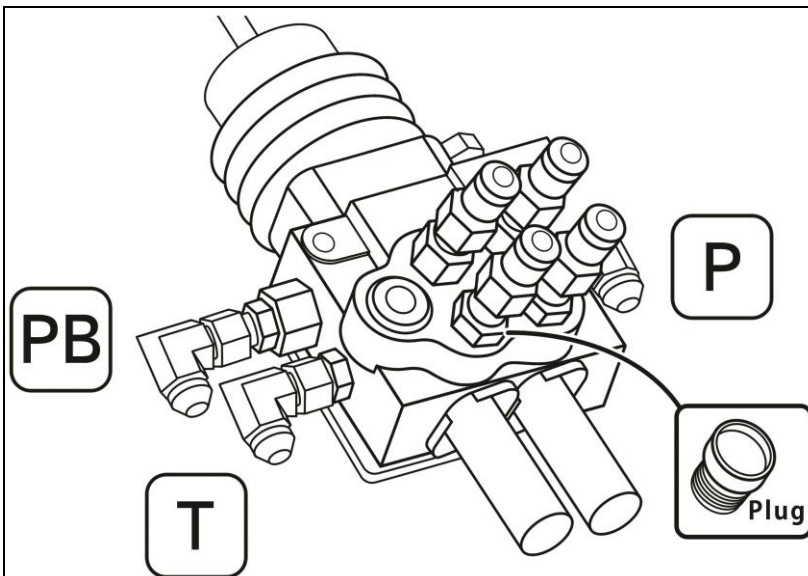


1. Attach the Control Valve Bracket in the RH Sub Frame.

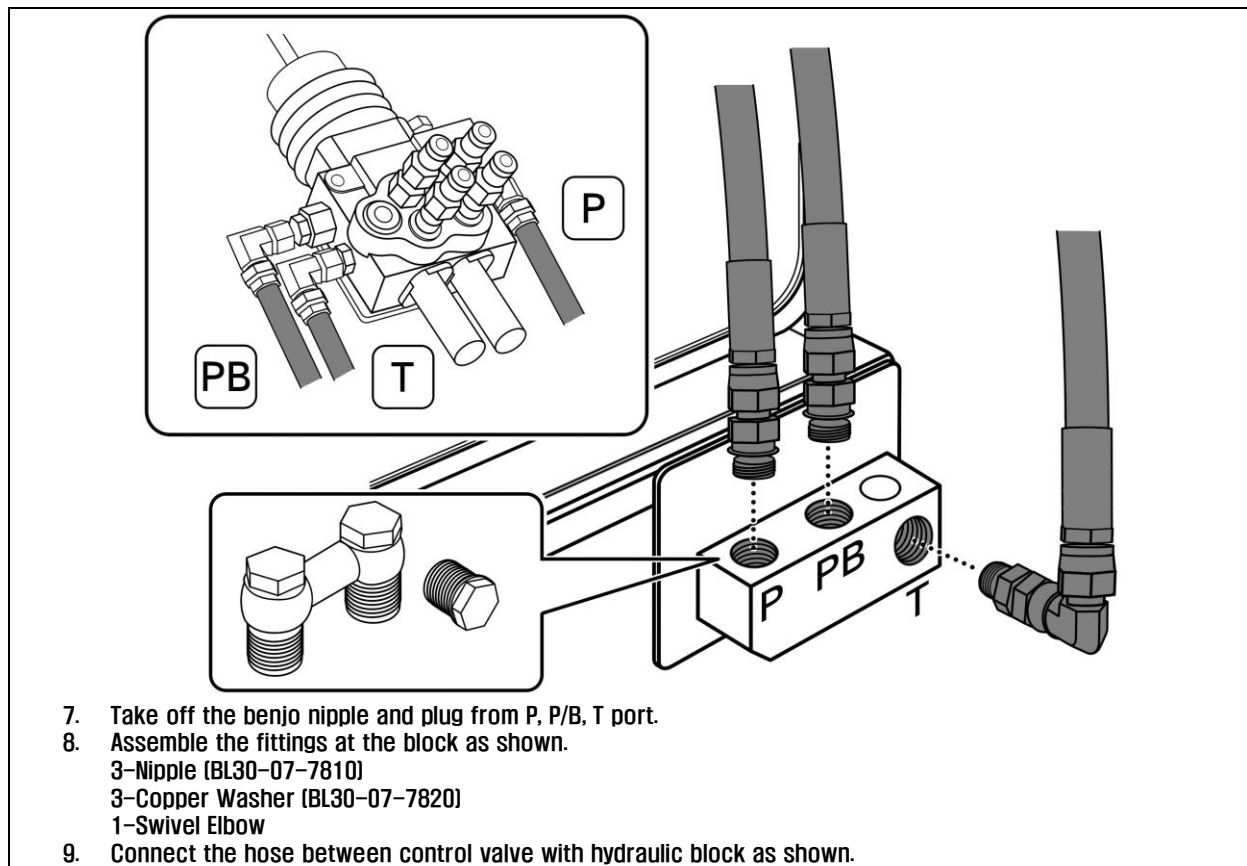
- 1-K2840B-1800	Control Valve Bracket
- 2-M10x40L	Bolt
- 2-M10	Spring Washer
- 2-M10	Nut

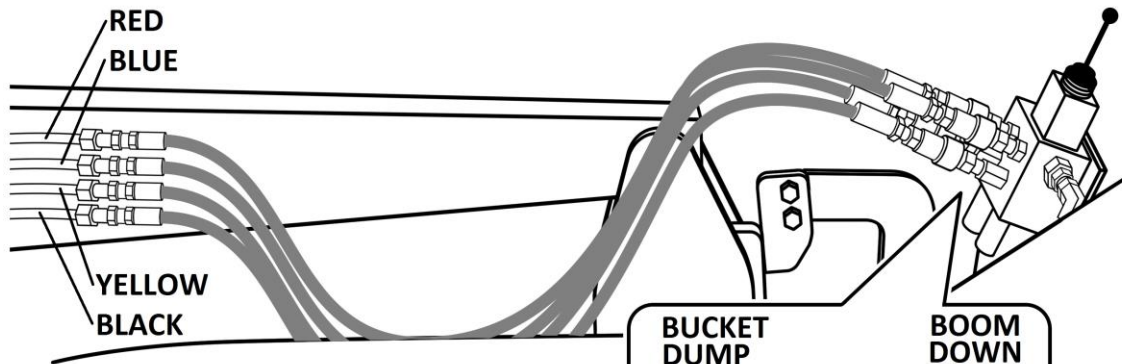
2. Assemble the Control Valve on the Control Valve Bracket

3-M8x70L	Bolt
3-M8	Spring Washer
3-M8	Nut

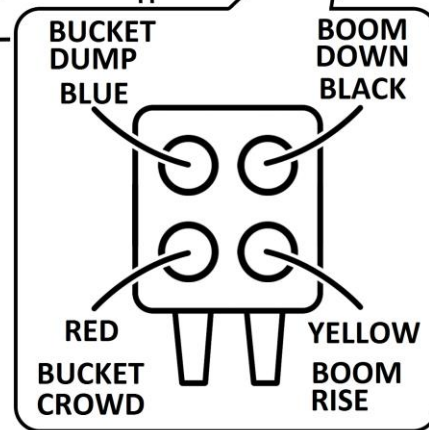


3. Remove the plastic plug from each port of control valve.
4. Assemble the fittings at the A1, B1, A2, B2 port of control valve as shown.
 - 4-Quick coupling (Male)
 - 2-0 Ring Nipple (34L)
 - 2-0 Ring Nipple (55L)
 - ** When assemble the O ring nipple with Quick coupling, Do wrap the Teflon tape on the taper thread.
5. Assemble the fitting at the P port.
 - 1-O Ring Elbow
6. Assemble the fitting at the P/B, T port.
 - 2-0 Ring Nipple
 - 2-Swivel Elbow





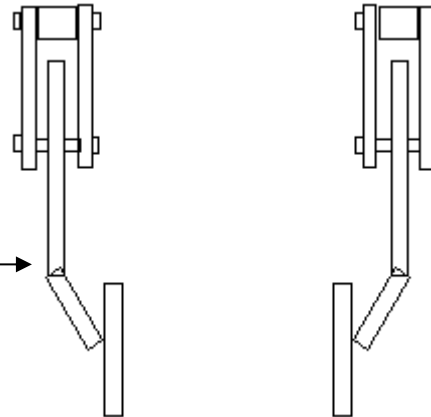
10. Assemble the Quick coupling (Female) at the end of hose.
 - ** Do wrap the Teflon tape on the taper thread.
 - 4-Hose (3P81-0900)
 - 4-Quick Coupling (Female)
11. Connect the 4 hoses between control valve to boom as shown.
 - ** Do obey the connection as shown.



6-2 SAFETY DECALS

To promote safe operation, Branson supplies safety decals on all products manufactured. Because damages can occur to safety decals either through shipment, use or reconditioning, Branson will, upon request, provide safety decals for any of our products in the field at no charge. Contact your authorized Branson dealer for more information.

**Decals 03L01, 03L02, 03L03
And 03L04 are located on
the left side of subframe.
Other decals are located
On the Boom**



REAR VIEW OF SUBFRAME

 CAUTION	TO AVOID SERIOUS INJURY OR DEATH • READ OPERATOR'S MANUAL AND DECALS BEFORE OPERATING & FOLLOW ALL PRECAUTIONS. • ALLOW NO CHILDREN OR UNQUALIFIED PERSONS TO OPERATE EQUIPMENT. • ROPS (ROLLOVER PROTECTIVE SYSTEM) AND SEAT BELT EQUIPPED TRACTOR IS RECOMMENDED FOR OPERATOR USE IN ALL LOADER OPERATIONS. • ADD RECOMMENDED WHEEL BALLAST OR REAR WEIGHT FOR STABILITY. • MOVE WHEELS TO WIDEST RECOMMENDED SETTINGS TO INCREASE STABILITY. • OPERATE LOADER ONLY FROM "OPERATOR'S SEAT" • STOP ENGINE, LOWER ARMS, RELIEVE ALL HYDRAULIC PRESSURE AND LOCK BRAKES BEFORE LEAVING OPERATOR'S SEAT. • DO NOT STAND, WORK, OR ALLOW OTHERS UNDER RAISED LOADER. • MOVE AND TURN TRACTOR AT LOW SPEEDS. • CARRY LOADER ARMS AT A LOW POSITION DURING TRANSPORT. • DO NOT LIFT OR CARRY ANYONE ON LOADER OR ON BUCKETS, FORKS, OR ATTACHMENTS. • OPERATOR SHOULD WEAR SAFETY HARD HAT, SAFETY GLASSES, SAFETY SHOES AND OTHER P.P.E. AVOID WEARING LOOSE CLOTHING OR JEWELRY THAT MAY CATCH IN MOVING PARTS.
	
	
	

03L01

03L01

 WARNING		
		
RAISED LOADER OR BOOM CAN FALL FROM HYDRAULIC SYSTEM FAILURE. TO AVOID SERIOUS INJURY OR DEATH, • BLOCK UP OR SECURELY SUPPORT LOADER AND BOOM BEFORE WORKING UNDERNEATH. • PURGE ALL AIR FROM HYDRAULIC SYSTEM BEFORE ATTEMPTING TO RAISE OR LOWER LOADER OR BOOM. • STAND CLEAR IF LOWERING OR RAISING LOADER OR BOOM. • DO NOT USE HAND OR SKIN TO CHECK FOR HYDRAULIC LEAKS. USE CARDBOARD OR WOOD. WEAR EYE PROTECTION. • HIGH PRESSURE OIL LEAKS CAN PENETRATE SKIN CAUSING SERIOUS INJURY AND GANGRENE. CONSULT A PHYSICIAN IMMEDIATELY. • LOWER THE LOADER OR BOOM AND RELEASE HYDRAULIC PRESSURE BEFORE LOOSENING FITTINGS. • REFER TO OWNER'S MANUAL FOR DETAILS.		

03L02

03L02

	WARNING	
TO AVOID SERIOUS INJURY OR DEATH: Use sufficient tractor wheel ballast or rear weight and widest wheel settings for tractor stability during loader operation. See tractor owner's manual for specific recommendations or contract local dealer. To avoid tractor overturn : Do not handle large heavy objects (large round bales, machinery, etc.) with loader. See owner's manual for further information.		

03L03

03L03

 WARNING 	
	
TO AVOID SERIOUS INJURY OR DEATH, • DO NOT LIFT OR CARRY ANYONE ON BUCKETS, FORKS, SPEARS OR ANY OTHER PORTIONS OF THE LOADER OR LOADER ATTACHMENTS. INADVERTENT MOVEMENT OF THE LOADER OR ATTACHMENT COULD RESULT IN SERIOUS INJURY OR DEATH. • AVOID CONTACT WITH ELECTRICAL POWER LINES BY LOADER OR ATTACHMENTS	

03L04

03L04



WARNING

THESE FORKS ARE NOT INTENDED FOR USE WITH LARGE OBJECTS SUCH AS ROUND HAY BALES OR OTHER ITEMS WHICH MAY ROLL BACKWARDS AND FALL CAUSING INJURY TO THE OPERATOR

Lift only objects that are within the stated lift capacity of the loader. Refer to your owner's manuals for the loader and for this fork attachment for loader limits and other safety considerations.

03L05

03L05



CAUTION

BE SURE TO PURGE ALL THE AIR FROM THE HYDRULIC SYSTEM BEFORE ATTEMPTING TO RAISE OR LOWER THIS MACHINE. REFFR TO OWNER'S MANUAL FOR FURTHER DETAILS.

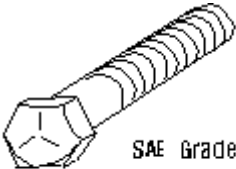
03L06

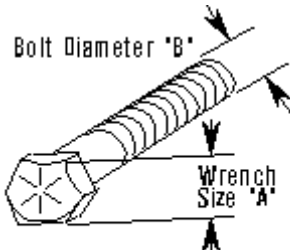
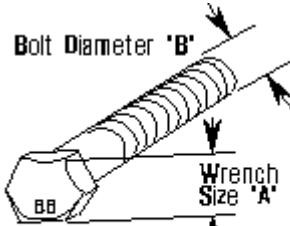
03L06

6-3 TORQUE SPECIFICATIONS

Proper torque for American fasteners used on Branson equipments.

Recommended Torque in Foot Pounds(Newton Meter).*

AMERICAN Bolt Head Markings	WRENCH SIZE(IN.) "A"	BOLT DIAMETER (IN.) "B" AND THREAD SIZE	SAE GRADE 2	SAE GRADE 5	SAE GRADE 8
 SAE Grade 2 (No Dashes)	7/16	1/4 - 20 UNC	6(7)	8(11)	12(16)
	7/16	1/4 - 28 UNF	6(8)	10(13)	14(18)
	1/2	5/16 - 18 UNC	11(15)	17(23)	25(33)
	1/2	5/16 - 24 UNF	13(17)	19(26)	27(37)
	9/16	3/8 - 16 UNC	20(27)	31(42)	44(60)
	9/16	3/8 - 24 UNF	23(31)	35(47)	49(66)
	5/8	7/16 - 14 UNC	32(43)	49(66)	70(95)
	5/8	7/16 - 20 UNF	36(49)	55(75)	78(106)
	3/4	1/2 - 13 UNC	49(66)	76(103)	106(144)
	3/4	1/2 - 20 UNF	55(75)	85(115)	120(163)
 SAE Grade 5 (3 Dashes)	7/8	9/16 - 12 UNC	70(95)	109(148)	153(207)
	7/8	9/16 - 18 UNF	79(107)	122(165)	172(233)
	15/16	5/8 - 11 UNC	97(131)	150(203)	212(287)
	15/16	5/8 - 18 UNF	110(149)	170(230)	240(325)
	1-1/8	3/4 - 10 UNC	144(195)	266(360)	376(509)
	1-1/8	3/4 - 16 UNF	192(260)	297(402)	420(569)
	1-5/16	7/8 - 9 UNC	166(225)	430(583)	606(821)
	1-5/16	7/8 - 14 UNF	184(249)	474(642)	668(905)
	1-1/2	1 - 8 UNC	250(339)	644(873)	909(1232)
	1-1/2	1 - 12 UNF	274(371)	705(955)	995(1348)
	1-1/2	1 - 14 UNF	280(379)	721(977)	1019(1381)

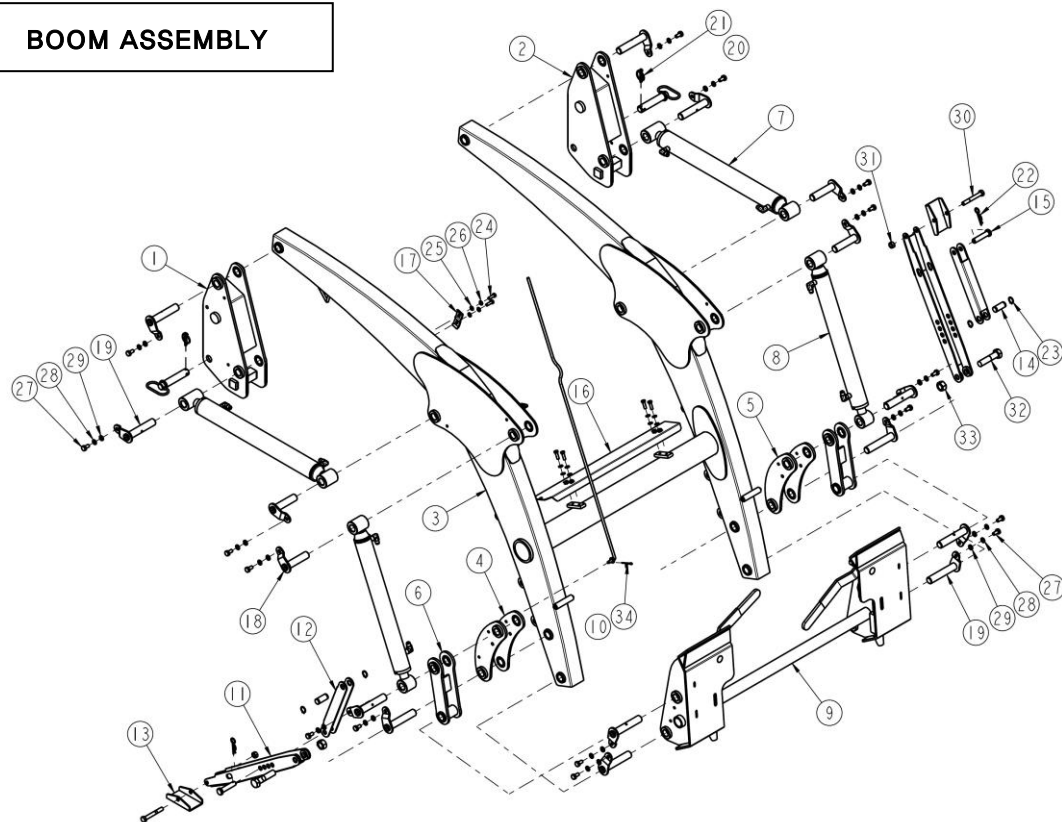
 SAE Grade 5 (3 Dashes)	WRENCH SIZE(IN.) "A"	BOLT DIAMETER (IN.) "B" AND THREAD SIZE	SAE GRADE 2	SAE GRADE 5	SAE GRADE 8	
	1-11/16	1-1/8 - 7 UNC	354(480)	795(1077)	1288(1745)	
	1-11/16	1-1/8 - 12 UNF	397(538)	890(1206)	1444(1957)	
	1-7/8	1-1/4 - 7 UNC	500(478)	1120(1518)	1817(2462)	
	1-7/8	1-1/4 - 12 UNF	553(749)	1241(1682)	2013(2728)	
	2-1/16	1-3/8 - 6 UNC	655(887)	1470(1992)	2382(3228)	
	2-1/16	1-3/8 - 12 UNF	746(1011)	1672(2266)	2712(3675)	
	2-1/4	1-1/2 - 6 UNC	870(1179)	1950(2642)	3161(4283)	
2-1/4	1-1/2 - 12 UNF	979(1327)	2194(2973)	3557(4820)		
Proper torque for American fasteners used on Branson equipments. Recommended Torque in Foot Pounds(Newton Meter).-						
METRIC	WRENCH SIZE(mm.) "A"	BOLT DIAMETER (mm.) "B"	ASTM 4.6	ASTM 8.8	ASTM 9.8	ASTM 10.9
 Numbers appearing on bolt heads indicate ASTM class	8	5	1.8(2.4)		5.1(6.9)	6.5(8.8)
	10	6	3(4)		8.7(12)	11.1(15)
	13	8	7.3(10)		21.1(29)	27(37)
	16	10	14.5(20)		42(57)	53(72)
	18	12	25(34)	74(100)	73(99)	93(126)
	21	14	40(54)	118(160)	116(157)	148(201)
	24	16	62(84)	167(226)	181(245)	230(312)
	30	20	122(165)	325(440)		449(608)
	33	22		443(600)		611(828)
	36	24	211(286)	563(763)		778(1054)
	41	27		821(1112)		1138(1542)
	46	30	418(566)	1119(1516)		1547(2096)
Use 75% of the specified torque value for plated fasteners. Use 85% of the specified torque value for lubricated fasteners						

PARTS MANUAL

BL25R / BL25R1

Boom Assembly	74
Coupler Assembly	78
Bucket	80
Mounting Kit	82
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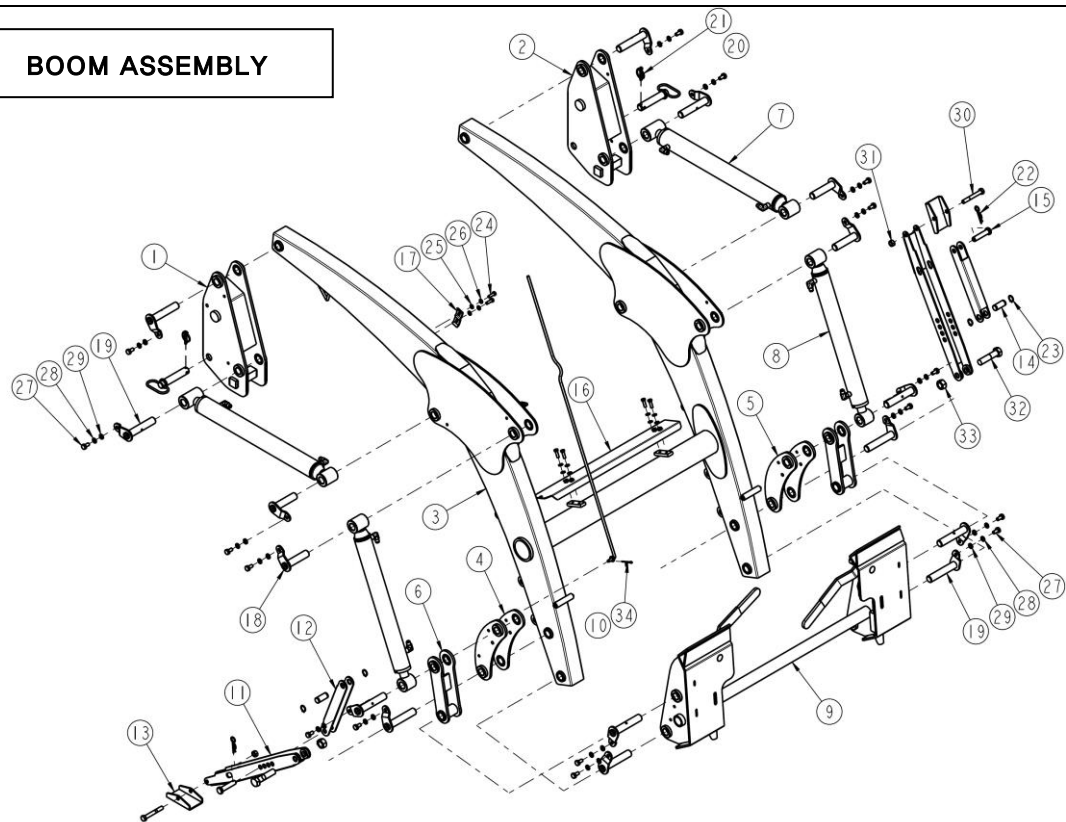
BOOM ASSEMBLY



BOOM ASSEMBLY(P/N: C1850D)

NO	PART NUMBER	PART NAME	DESCRIPTON	Q'TY	REMARK
1	C1850A-3100	COLUMN, RH.		1	
2	C1850A-3200	COLUMN, LH.		1	
3	C1850A-0000	BOOM ASSY		1	
4	C1850A-6000	LINK BUCKET, RH.		1	
5	C1850A-7000	LINK BUCKET, LH.		1	
6	C1850A-4100	BUCKET ROD		2	
7	C1850D-8000	CYLINDER BOOM	Ø55xØ30x690LxST455	2	
8	C1850A-9000	BUCKET CYLINDER	Ø50xØ30x625LxST390	2	
9	B0945B-000B	COUPLER B/C		1	
10	2540A-450A	INDICATOR ASSY		1	
11	3045A-8100	STAND		2	
12	3045A-8200	BRACKET	4t	2	
13	4060A-8400	BRACKET	4t	2	
14	4060A-8520	PIN	Ø20*48L	2	
15	4060A-8530	PIN	Ø16*80L	2	
16	4060A-7010	COVER	2,3t	1	
17	ALN47-07-3100	COVER	4t	1	
18	P25A-105A	PIN	Ø25	4	
19	P25A-130A	PIN		12	
20	P25C-1030	PIN	Ø25	2	

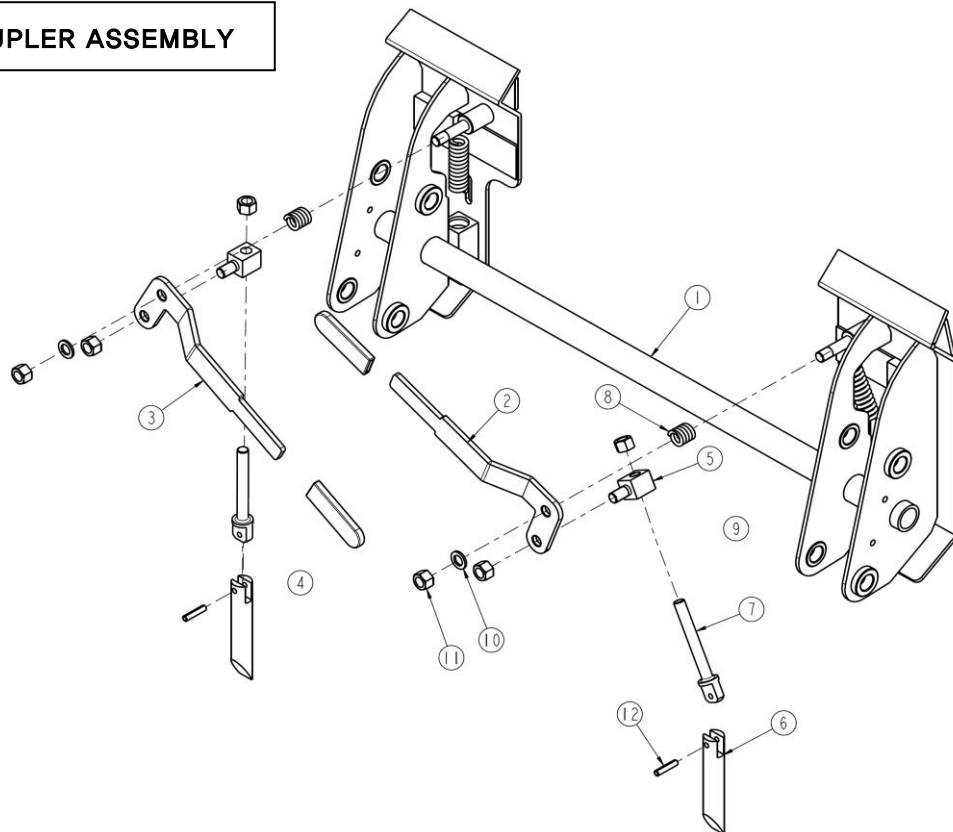
BOOM ASSEMBLY



BOOM ASSEMBLY(P/N: C1850D)

NO	PART NUMBER	PART NAME	DESCRIPTON	Q'TY	REMARK
21	AL20-98-9990	LINK PIN		2	
22	PR30045	R-PIN	Ø3	2	
23	SN20M	SNAP RING	Ø20	4	
24	BH0855125Z	BOLT	M8x25L	6	
25	WPO8M	PLAIN WASHER	M8	6	
26	WS08M	SPRING WASHER	M8	6	
27	BH1044150Z	BOLT(10.9T)	M10x20L	16	
28	WP10M	PLAIN WASHER	M10	16	
29	WS10M	SPRING WASHER	M10	16	
30	BH1216175Z	BOLT(10.9T)	M12x90L	2	
31	NL12175Z	LOCK NUT	M12	2	
32	BH20H5250X	BOLT(10.9T)	M20x85L	2	
33	NL20250Z	LOCK NUT	M20	2	
34	PD03025	COTTER PIN	Ø3x25L	1	

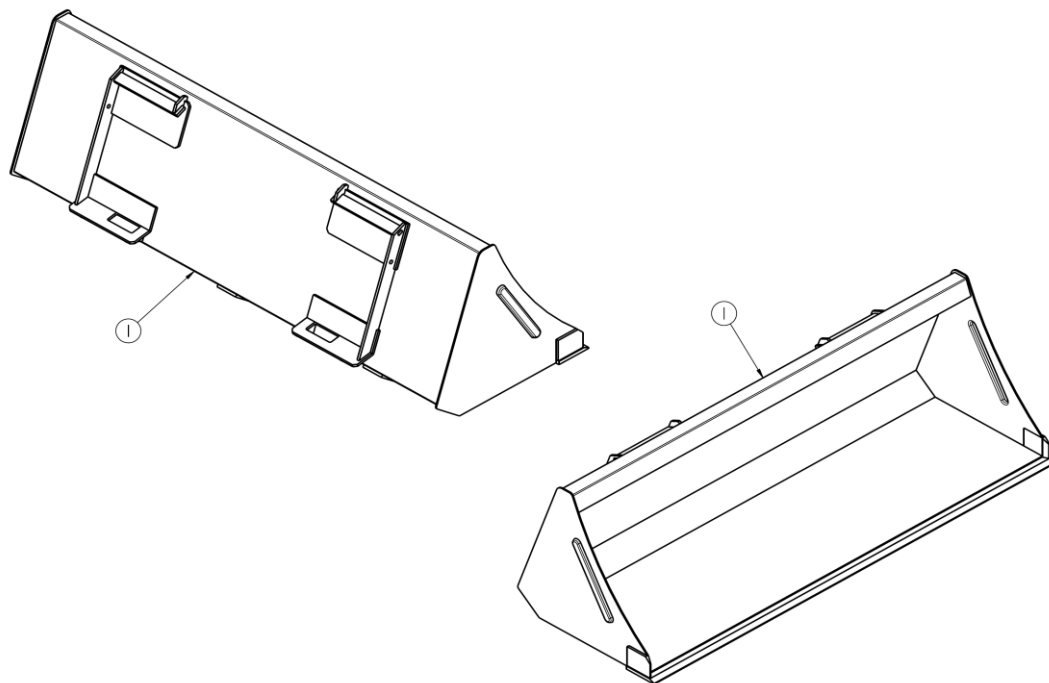
COUPLER ASSEMBLY



COUPLER ASSEMBLY(P/N: B0945B-000B)

NO	PART NUMBER	PART NAME	DESCRIPTON	Q'TY	REMARK
1	B0945B-200B	COUPLER B/C		1	
2	B0945A-111B	LEVER RH.	8t	1	
3	B0945A-112B	LEVER LH.	8t	1	
4	B0945A-0090	HANDLE		2	
5	B0945A-1210	PIN	30x30	2	
6	B0945A-1220	PIN	Ø30	2	
7	B0945A-1230	PIN	Ø30	2	
8	B0945A-1310	SPRING	Ø5	2	
9	B0945A-132A	SPRING		2	
10	WP16M	PLAIN WASHER	M16	2	
11	NL16200Z	LOCK NUT	M16	6	
12	PS08040	SPRING PIN	Ø8x40L	2	

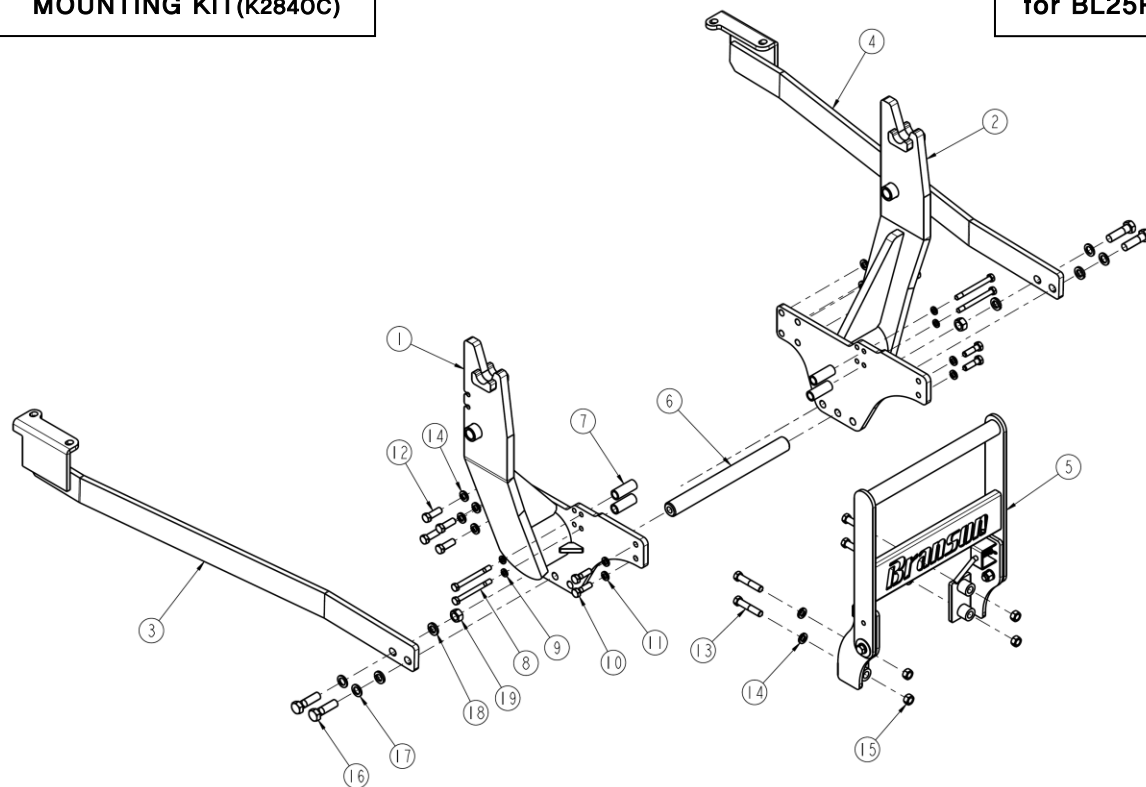
BUCKET



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MOUNTING KIT(K2840C)

for BL25R

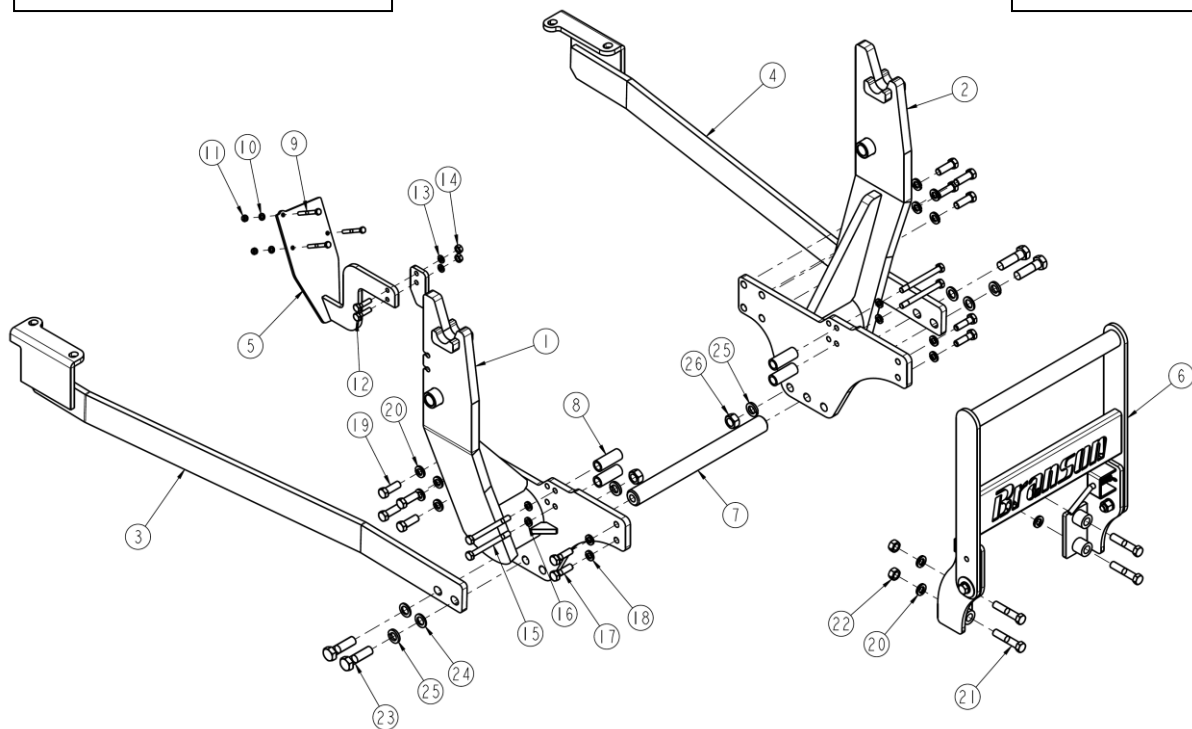


MOUNTING KIT(P/N:K2840C)**for BL25R**

NO	PART NUMBER	PART NAME	DESCRIPTON	Q'TY	REMARK
1	K2840C-1100	SUB FRAME RH		1	
2	K2840B-1200	SUB FRAME, RH.		1	
3	K2840A-3100	BACK AXLE RH		1	
4	K2840A-3200	BACK AXLE LH		1	
5	K03B-4000	BUMPER		1	
6	C30-09-6100	CROSS BAR		1	
7	ALK28-09-416A	BUSHING		4	
8	BH12P7175Z	BOLT(10.9T)	M12x125L	4	
9	WS12M	SPRING WASHER	M12	4	
10	BH14A7200Z	BOLT(10.9T)	M14x50L	4	
11	WS14M	SPRING WASHER	M14	4	
12	BH1699200Z	BOLT(10.9T)	M16x45L	8	
13	BH16G8200Z	BOLT(10.9T)	M16x80L	4	
14	WS16M	SPRING WASHER	M16	12	
15	NH16200Z	NUT	M16	4	
16	BH20EA250Z	BOLT(10.9T)	M20x70L	4	
17	WP20M	PLAIN WASHER	M20	4	
18	WS20M	SPRING WASHER	M20	4	
19	NH20250Z	NUT	M20	2	

MOUNTING KIT(K2840B)

for BL25R1

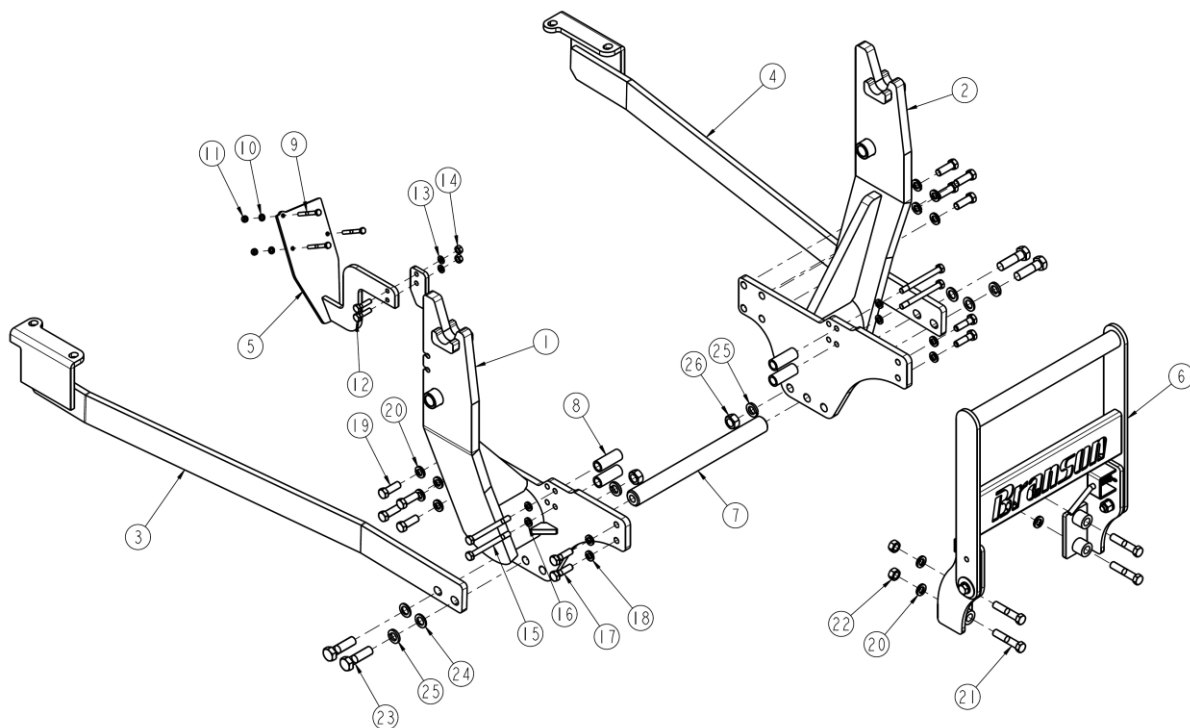


MOUNTING KIT(P/N:K2840B)**for BL25R1**

NO	PART NUMBER	PART NAME	DESCRIPTON	Q'TY	REMARK
1	K2840B-1100	SUB FRAME, RH.		1	
2	K2840B-1200	SUB FRAME, RH.		1	
3	K2840A-3100	BACK AXLE RH		1	
4	K2840A-3200	BACK AXLE LH		1	
5	K2840B-1800	C/V BRACKET		1	
6	K03B-4000	BUMPER		1	
7	C30-09-6100	CROSS BAR		1	
8	ALK28-09-416A	BUSHING	M8x70L	4	
9	BH08E6125Z	BOLT(10.9T)	M8	3	
10	WS08M	SPRING WASHER	M8	3	
11	NH08125Z	NUT	M10x40L	3	
12	BH1086150Z	BOLT(10.9T)	M10	2	
13	WS10M	SPRING WASHER	M10	2	
14	NH10150Z	NUT	M12x125L	2	
15	BH12P7175Z	BOLT(10.9T)	M12	4	
16	WS12M	SPRING WASHER	M14x50L	4	
17	BH14A7200Z	BOLT(10.9T)	M14	4	
18	WS14M	SPRING WASHER	M16x45L	4	
19	BH1699200Z	BOLT(10.9T)	M16	8	
20	WS16M	SPRING WASHER		12	

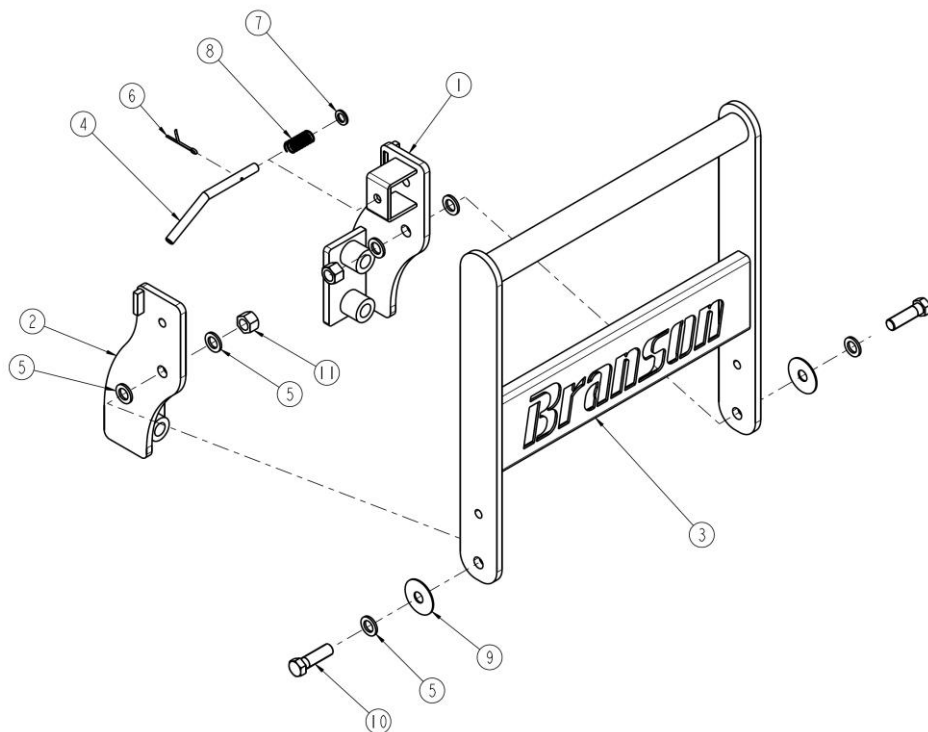
MOUNTING KIT(K2840B)

for BL25R1



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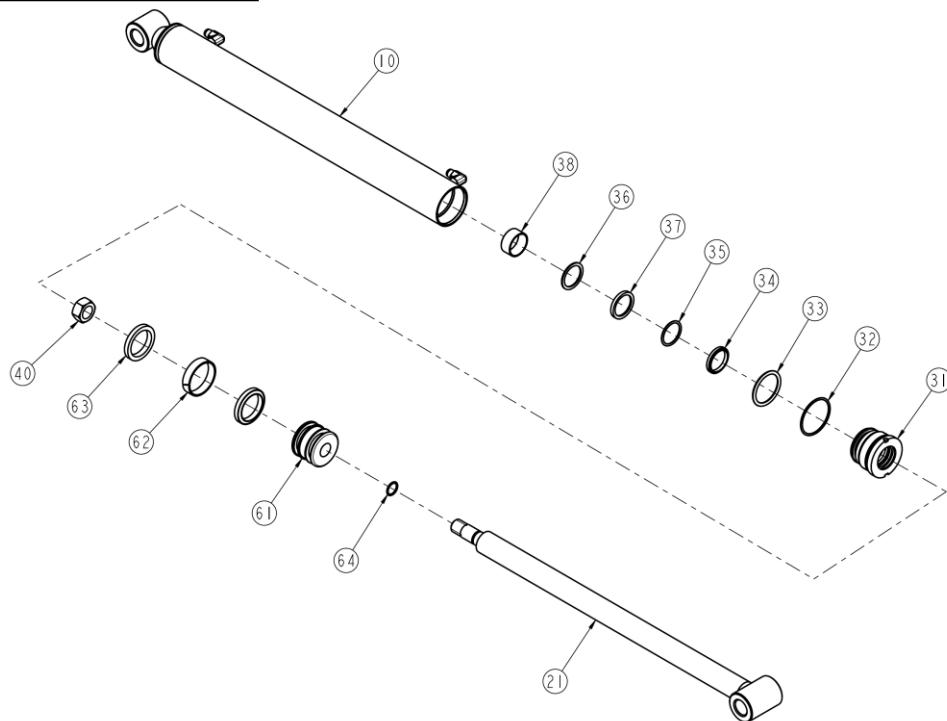
BUMPER ASSEMBLY



BUMPER ASSEMBLY(P/N:K2840C-4000)

NO	PART NUMBER	PART NAME	DESCRIPTON	Q'TY	REMARK
1	K2840C-4100	BRACKET LH		1	
2	K2840C-4200	BRACKET RH		1	
3	K03B-4200	FOLDER		1	
4	M7040A-4010	PIN		1	
5	WP16M	PLAIN WASHER	M16	6	
6	PD03025	SPLIT PIN	Ø3x25L	1	
7	WP12M	PLAIN WASHER	M12	1	
8	ALK28-04-0010	SPRING	SUP9, Ø1.5xØ18x66L	1	
9	WD16M	DISC SPRING WASHER	M16	2	
10	BH16B9200Z	BOLT(10.9T)	M16x55L	2	
11	NL16200Z	LOCK NUT	M16	2	

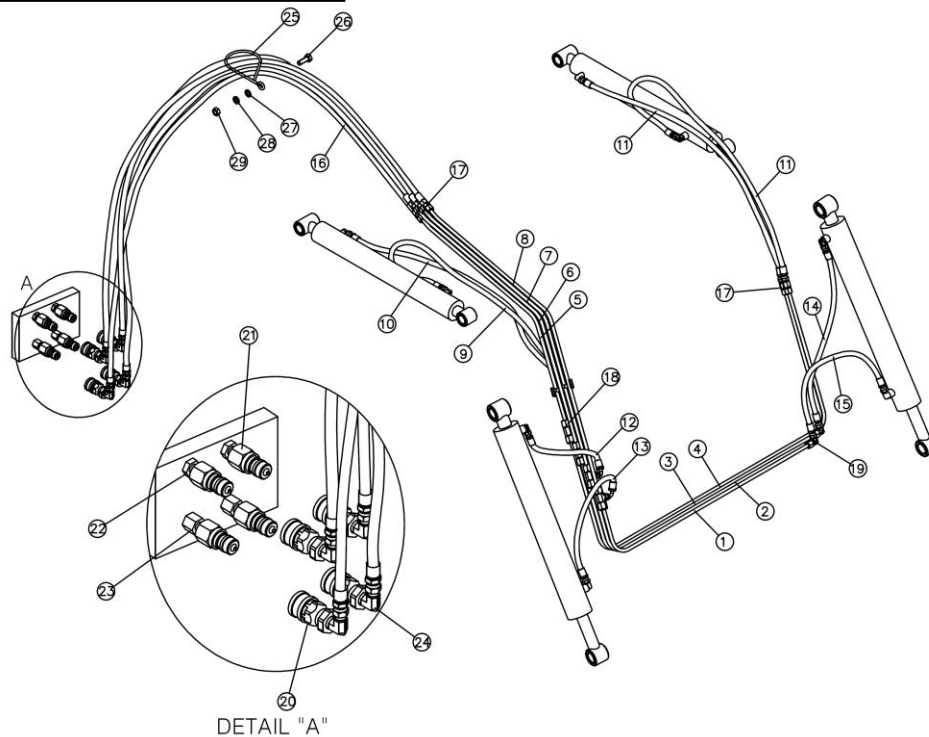
CYLINDER ASSEMBLY



CYLINDER ASSEMBLY

NO	PART NUMBER		PART NAME	Q'TY	REMARK
	BUCKET(C1850A-9000)	BOOM(C1850D-8000)			
10	C1850A-05-1210	C1850D-05-2210	TUBE	1	
21	C1850A-05-1110	C1850D-05-2110	ROD	1	
31	CR5030	CR5530	COVER ROD	1	
32	1BG50	1BG55	O-RING	1	
33	1BG44	1BG49	O-RING	1	
34	LBW 30x38x5/6.5	LBW 30x38x5/6.5	DUST SEAL	1	
35	1BP30	1BP30	O-RING	1	
36	ISW 30x40x6	ISW 30x40x6	U-PACKING	1	
37	BRWW 30x40x2	BRWW 30x40x2	BACK UP RING	1	
38	DU3020	DU3020	DU BUSH	1	
40	CY-M20	CY-M20	NUT	1	
61	PI5030	PI5530	PISTON	1	
62	WRW 50x45x15	WRW 55x50x15	WEAR-RING	1	
63	ODW 50x35x9	ODW 55x40x10	U-PACKING	2	
64	1BP18	1BP18	O-RING	1	
	SEAL5030	SEAL5530	SEAL KIT	1	

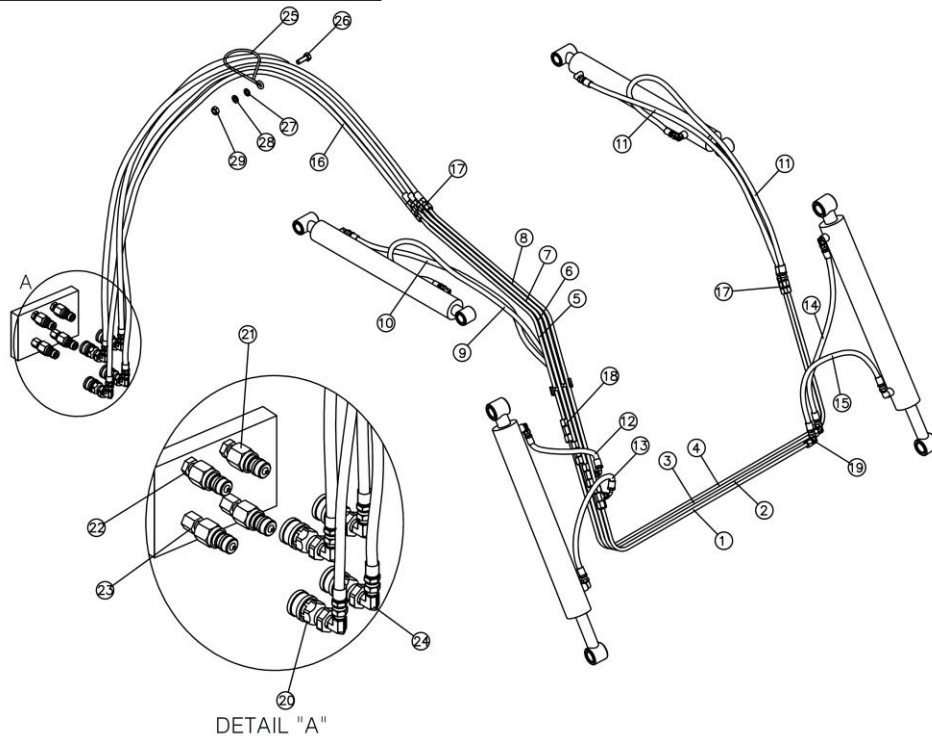
HYDRAULIC PARTS (BL25R)



HYDRAUIC PARTS (BL25R)

NO	PART NUMBER	PART NAME	DESCRIPTON	Q'TY	REMARK
1	C1850A-07-1100	PIPE		1	
2	C1850A-07-1200	PIPE		1	
3	C1850A-07-1300	PIEP		1	
4	C1850A-07-1400	PIPE		1	
5	C1850A-07-1500	PIPE		1	
6	C1850A-07-1600	PIPE		1	
7	C1850A-07-1700	PIPE		1	
8	C1850A-07-1800	PIPE		1	
9	5PG1-0300	HOSE ASSY		1	
10	5PG1-0760	HOSE ASSY		1	
11	5PG1-0060	HOSE ASSY		2	
12	5PG1-0050	HOSE ASSY		1	
13	5PG1-0140	HOSE ASSY		1	
14	5PG1-0480	HOSE ASSY		1	
15	5PG1-0570	HOSE ASSY		1	
16	5PG1-1840	HOSE ASSY		4	
17	ALK28-07-9800	NIPPLE		6	
18	ALK28-07-9900	TEE NIPPLE		4	
19	ALK28-07-9600	ELBOW NIPPLE		2	
20	ALK28-07-7100	Q-COUPLER(F)		4	

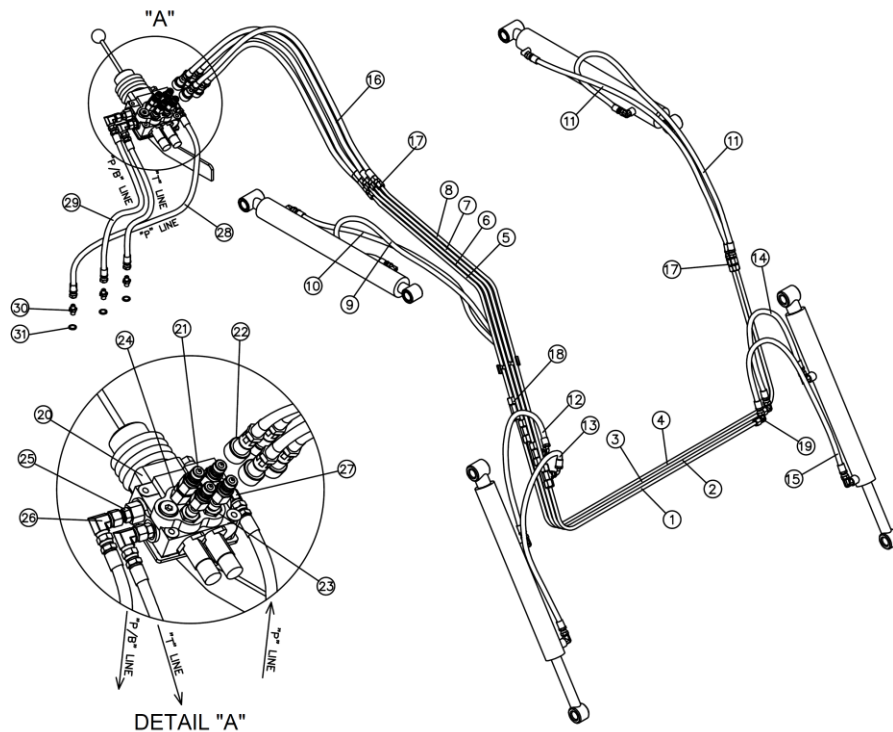
HYDRAULIC PARTS (BL25R)



HYDRAUIC PARTS (BL25R)

NO	PART NUMBER	PART NAME	DESCRIPTON	Q'TY	REMARK
21	ALK28-07-7200	Q-COUPER(M)		4	
22	ALK28-07-7910	O-RING NIPPLE		2	
23	ALK28-07-7920	O-RING NIPPLE		2	
24	ALK28-07-9700	ELBOW NEPPLE		4	
25	C2050-9500	HOLDER		1	
26	BH1066150Z	BOLT		1	
27	WP10M	PLAIN WASHER		1	
28	WS10M	SPRING WASHER		1	
29	NH10150Z	NUT		1	

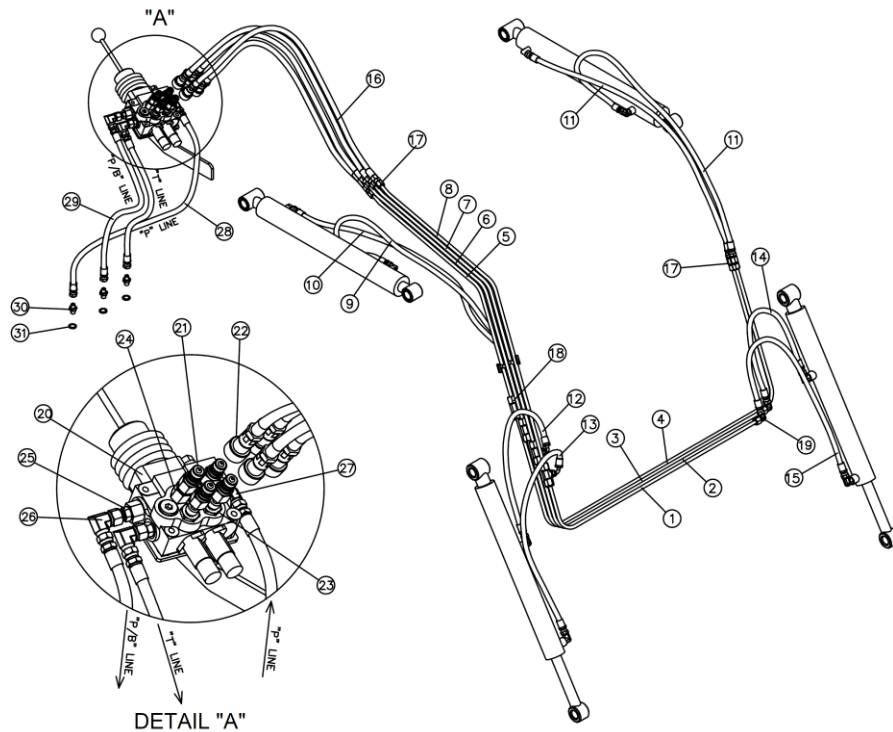
HYDRAULIC PARTS (BL25R1)



HYDRAUIC PARTS (BL25R1)

NO	PART NUMBER	PART NAME	DESCRIPTON	Q'TY	REMARK
1	C1850A-07-1100	PIPE		1	
2	C1850A-07-1200	PIPE		1	
3	C1850A-07-1300	PIEP		1	
4	C1850A-07-1400	PIPE		1	
5	C1850A-07-1500	PIPE		1	
6	C1850A-07-1600	PIPE		1	
7	C1850A-07-1700	PIPE		1	
8	C1850A-07-1800	PIPE		1	
9	5PG1-0300	HOSE ASSY		1	
10	5PG1-0760	HOSE ASSY		1	
11	5PG1-0060	HOSE ASSY		2	
12	5PG1-0050	HOSE ASSY		1	
13	5PG1-0140	HOSE ASSY		1	
14	5PG1-0480	HOSE ASSY		1	
15	5PG1-0570	HOSE ASSY		1	
16	3P81-0900	HOSE ASSY		4	
17	ALK28-07-9800	NIPPLE		6	
18	ALK28-07-9900	TEE NIPPLE		4	
19	ALK28-07-9600	ELBOW NIPPLE		2	
20	HDM03/2	CONTROL VALVE		1	BESKO VALVE

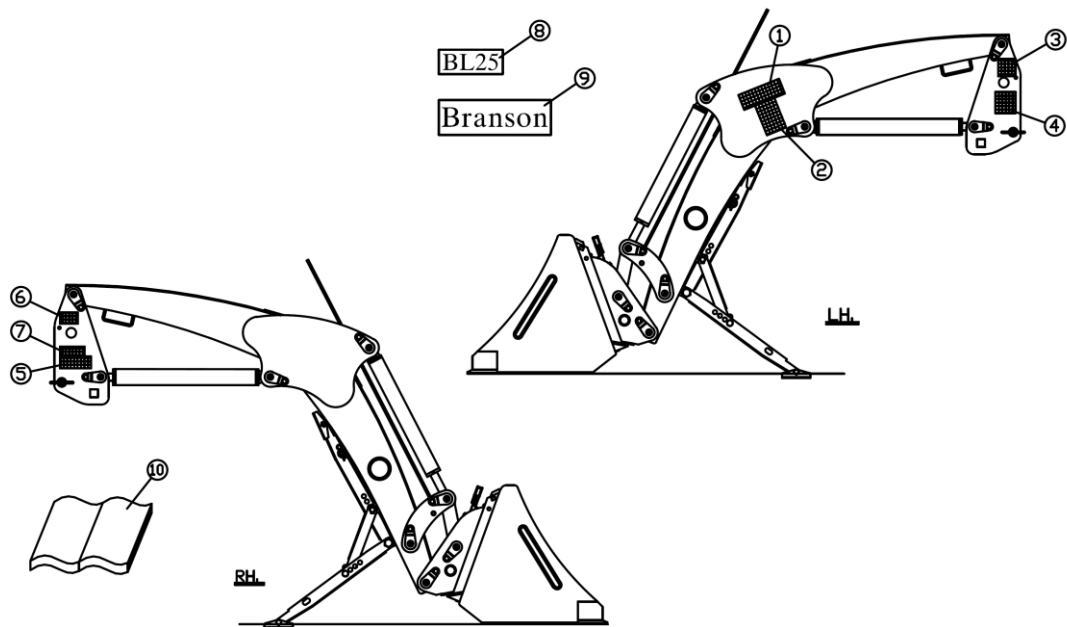
HYDRAULIC PARTS (BL25R1)



HYDRAUIC PARTS (BL25R1)

NO	PART NUMBER	PART NAME	DESCRIPTON	Q'TY	REMARK
21	ALK28-07-7200	Q-COUPLING(M)		4	
22	ALK28-07-7100	Q-COUPLING(F)		4	
23	AL25-07-9400	O-RING NIPPLE		2	
24	AL25-07-940A	O-RING NIPPLE		2	
25	7860-07-7080	O-RING NIPPLE		2	
26	S1600G-07-0010	SWIVEL ELBOW NIPPLE		2	
27	M7040-07-7050	O-RING ELBOW		2	
28	3P81-1180	HOSE ASSY		1	
29	3P81-1200	HOSE ASSY		2	
30	BL30-07-7810	NIPPLE		3	
31	BL30-07-7820	WASHER(COPPER)		3	

DECAL & MANUAL



DECAL & MANUAL

NO	PART NUMBER	PART NAME	DESCRIPTON	Q'TY	REMARK
1	O3L01	DECAL		1	
2	O3L02	DECAL		1	
3	O3L03	DECAL		1	
4	O3L04	DECAL		1	
5	O3L05	DECAL		1	
6	O3L06	DECAL		1	
7	O3L00	DECAL		1	
8	11L20	DECAL		2	
9	11L02	DECAL		2	
10	M15O13	Owner's MANUAL		1	

Memo

BL25R & BL25R1

PART NO.	PAGE	PART NO.	PAGE	PART NO.	PAGE
03L00	101	3P81-1200	99	AL20-98-9990	77
03L01	101	4060A-7010	75	AL25-07-9400	99
03L02	101	4060A-8400	75	AL25-07-940A	99
03L03	101	4060A-8520	75	ALK28-04-0010	89
03L04	101	4060A-8530	75	ALK28-07-7100	93
03L05	101	5PG1-0050	93	ALK28-07-7100	99
03L06	101	5PG1-0050	97	ALK28-07-7200	95
11L02	101	5PG1-0060	93	ALK28-07-7200	99
11L20	101	5PG1-0060	97	ALK28-07-7910	95
1BG49	91	5PG1-0140	93	ALK28-07-7920	95
1BG49	91	5PG1-0140	97	ALK28-07-9600	93
1BG55	91	5PG1-0300	93	ALK28-07-9600	97
1BG55	91	5PG1-0300	97	ALK28-07-9700	95
1BP18	91	5PG1-0480	93	ALK28-07-9800	93
1BP18	91	5PG1-0480	97	ALK28-07-9800	97
1BP30	91	5PG1-0570	93	ALK28-07-9900	93
1BP30	91	5PG1-0570	97	ALK28-07-9900	97
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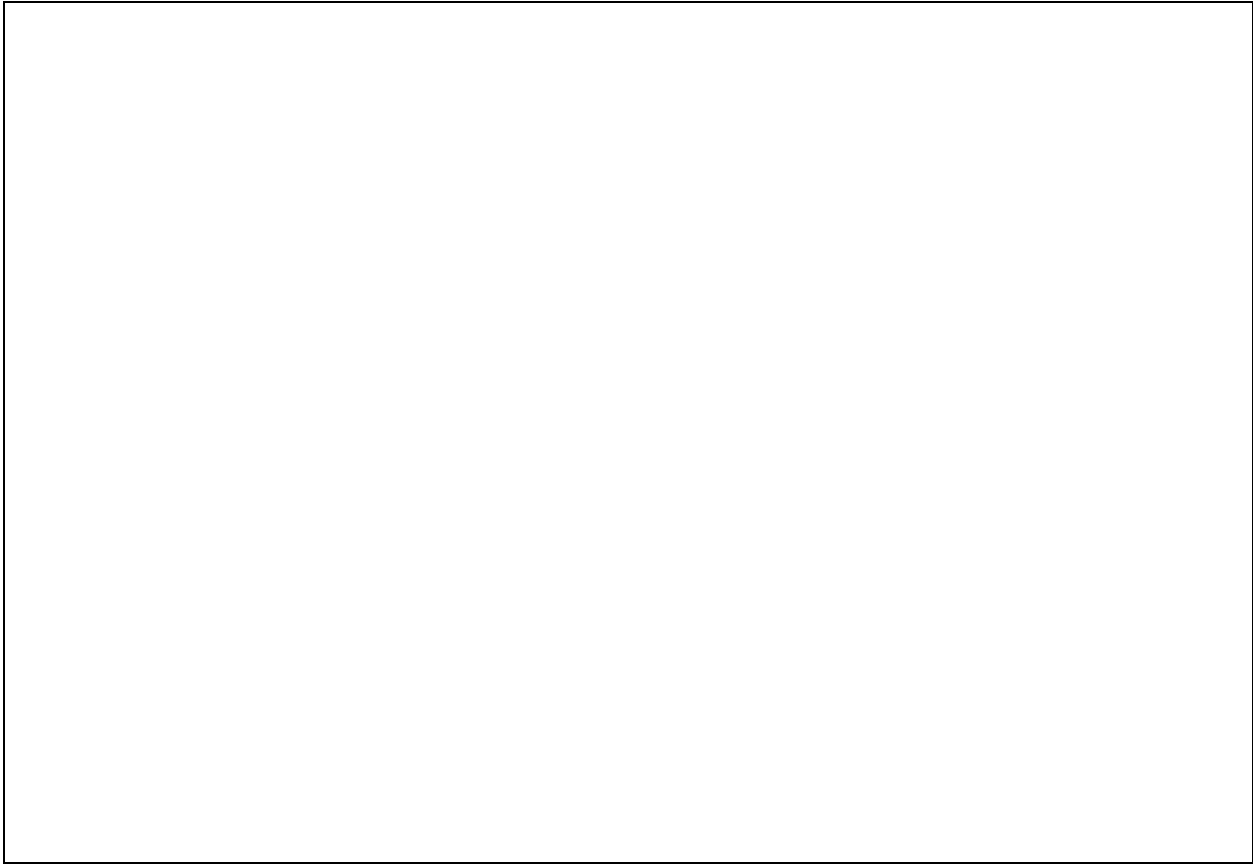
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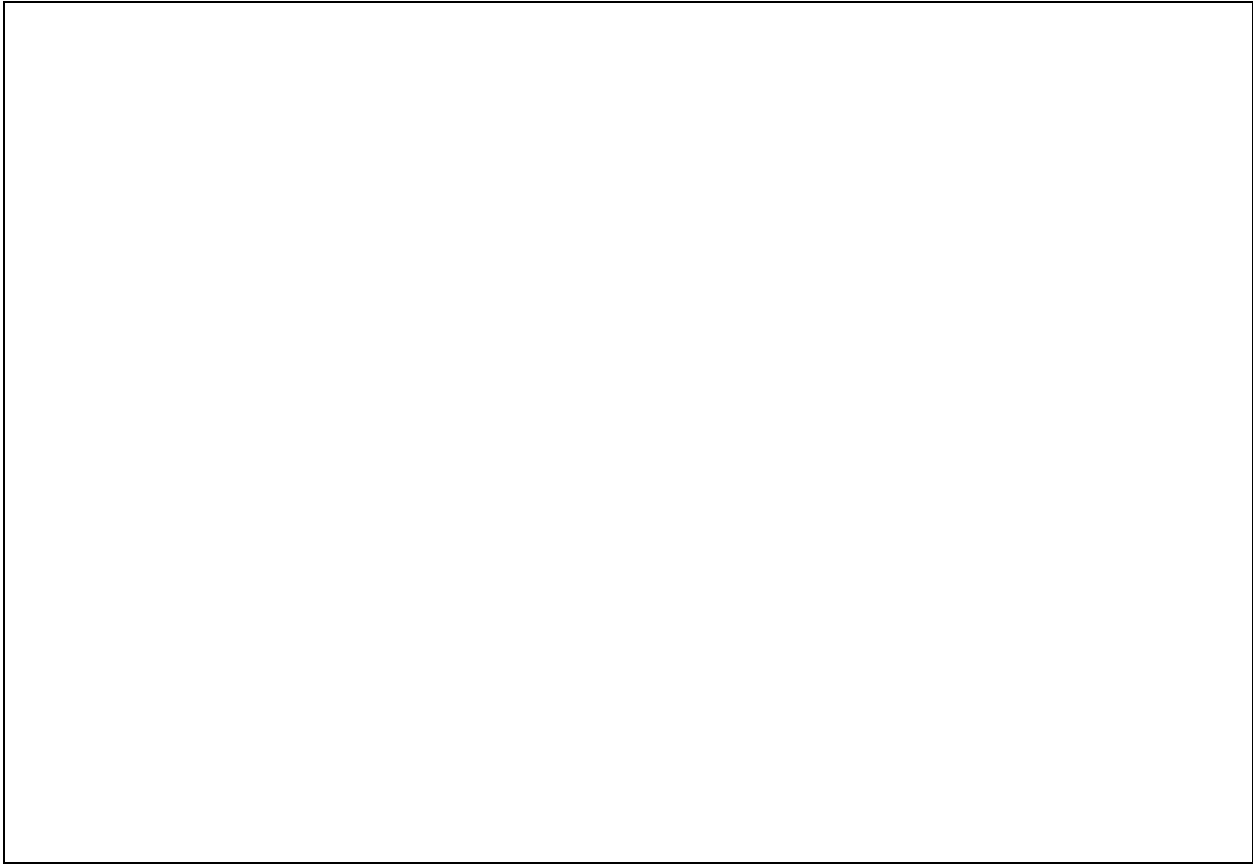
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Branson Front Loader

(BL25R Series)

Owner's Manual

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