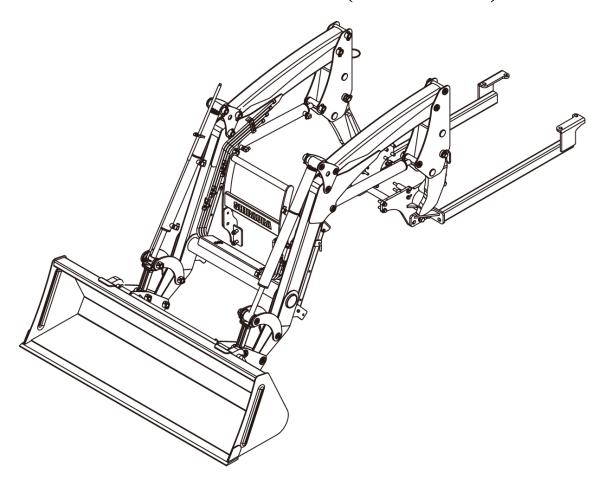
OPERATOR'S MANUAL FOR FRONT END LOADER (BL25RSL)



WARRANTY CONDITIONS

Warranty Coverage:

Shibaura Tractor Division, herein referred to as Shibaura, undertakes to replace or repair any part of a Shibaura loader where damage has been proven to be caused by defects in material or workmanship.

This Warranty is valid for a period of 1 year from the date of the original retail sale. Parts replaced or repaired under the terms of this Warranty are guaranteed only until the original warranty expires.

It is further understood and agreed that the defect should be immediately reported to the Selling Dealer. The Selling Dealer will generally perform Warranty repairs or replacements and the Purchaser shall deliver the Shibaura Loader to the Dealer's place of business or repair.

The obligation of Shibaura to the Purchaser under this Warranty is limited to the repair or replacement of defective parts by an authorized Shibaura dealer. Repair or replacement in accordance with this Warranty shall constitute fulfillment of all liabilities of Shibaura and the Selling Dealer in respect to Shibaura Loaders.

There are no warranties beyond those which expressly appear herein. Any implied warranty of merchantability or fitness for a particular purpose is specifically exclude here from.

Warranty Provisions:

Shibaura's liability under this warranty is subject to the observance by the Purchaser of the following provisions:

The purchaser shall at all times in the operation of any Shibaura Product, use those brands and grades of lubricating oils, lubricants or fuel and spare parts officially approved by Shibaura.

The Shibaura Loaders shall have been used in accordance with the procedures specified in the Operator's Manual. This Warranty does not extend to damage resulting from misapplication, abuse, misuse, failure to preform maintenance, negligence, fire, accidents or changes or faulty mounting carried out by the Purchaser. When making a Warranty exchange of parts, the Purchaser shall compensate Shibaura for the time that the parts have been used if they have been exposed to extreme wear.

Compensation is not paid for physical harm, deadlock, resulting damages or other losses.

To obtain warranty service, the Purchaser must (1) report the product defect to an authorized Shibaura dealer and request repair within the applicable warranty term and (2) present evidence of purchase.

The Warranty shall be void if the Shibaura Loader has been altered or repaired outside of a Shibaura dealership or travel of dealer personnel to customer location for Warranty repair. The customer shall also pay any premium for overtime labor requested by the customer.

Temporary repairs or additional costs due to the work being performed after normal working hours will not be compensated.

The above warranty is in lieu of all other warranties on Shibaura's behalf and neither party assumes any other liability in connection with Shibaura's Products.

Right To Make Design and Product Changes:

Shibaura reserves the right to make changes in the design and other changes in its Shibaura Products at any time without incurring any obligation with respect to any product previously ordered, sold or shipped.

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SAFETY

Understand that your safety and the safety of other people is measured by how you service and operate this loader. Know the position and operations of all controls before you start to operate. Make sure you check all controls in all safe area before starting.

The safety information given in this manual does not replace any safety Codes, insurance needs, federal, state and local laws.

Make sure your Machine has the correct equipment required by your local laws and regulations.

Read this manual completely and thoroughly and make sure you understand all controls. All equipment has a limit. Make sure you are aware of the stability and load characteristics of this loader before you begin operation.

This safety alert symbol indicates important safety messages in this manual.

When you see this symbol, carefully read the message that follows and be alert to the possibility of personal injury or death.

SAFETY PRECAUTIONS

- -Before starting the engine of your tractor, make sure all operation controls are in park lock or neutral position.
- -Operate controls only when seated in the operator's seat.
- -Equip your tractor with a ROPS cab or frame for your protection.
- -See your tractor operator's manual for correct seat belt usage.
- -A frequent cause of personal injury or death is people falling off and being run over.
- -Do not permit others to ride on your tractor. Only one person, the operator, should be on the machine when it is in operation.
- -Before leaving the tractor, stop the engine, put all controls in neutral, engage the parking brake and remove the key from the ignition.
- -When using remote hydraulic tractor valves on some tractors, the loader lift and dump cylinders will continue moving unless the control levers are manually returned to neutral, or until relief pressure is reached at the ends of piston strokes.
- -Observe the bucket movement and maintain control with the control levers.

- -Stop the loader arms gradually when lowering or lifting loads.
- -Stay off of slopes too steep for safe operation.
- -Shift down before you start up or down a hill with a heavy load.
- -Avoid "free wheeling"
- -Travel speed should when complete control and machine stability is maintained at all times. Where possible, avoid operation near ditches, embankments and holes.
- -Reduce speed when turning, crossing slopes, and on rough, slick or muddy surfaces.
- -Never use your hand to check for suspected leaks under pressure.
- -Use a piece of cardboard or wood for this purpose. Escaping hydraulic oil or diesel fuel leaking under pressure can have sufficient force to penetrate the skin and cause infection or other injury by leaking fluid, seek medical attention immediately.
- -To prevent personal injury, relieve all pressure before disconnecting fluid lines.
- -Before applying hydraulic pressure, make sure all hydraulic connections are tight and components are in good condition.

SAFETY

- -Contact with overhead power lines can cause severe electrical burn or death from electrocution. Make sure there is enough clearance between raised equipment and overhead power lines.
- -Add recommended rear tire liquid weight or rear wheel weights for increased stability.
- -A loader attachment should be transported in a low position at slow ground speeds.
- -Make turns slowly and use the tractor brakes cautiously.
- -A loaded attachment in the raised position alters the center of gravity location of the machine and increases the possibility of mishaps.
- -Do not stand, walk or work under a raised loader or attachment unless it is securely blocked or held in position. Accidental movement of a control lever or leak in the hydraulic system could cause the loader to drop, or attachment to dump, causing severe injury.
- -Make sure all parked loaders on stands are on stands are on a hard level surface with all safety devices engaged to prevent loader from falling and being damaged or injuring someone.
- -When using a loader, be alert of bucket position at all times.
- -Loader in raised position with bucket rolled back can dump material on tractor causing damage or injury to tractor and / or operator.
- -Always park loader with bucket attached to loader.

WARNING SIGNS IN THIS MANUAL

The following warning signs in this manual draw additional attention to items of importance for the safe and correct operation of the tractor.

SIGN	MEANING OF THE SIGN
DANGER	Serious hazard with a very high level of risk of either serious injury or death
WARNING	Hazard or unsafe practice that can lead to severe injury or death.
CAUTION	Hazard or unsafe practice that can lead in injury or death.
IMPORTANT	Instructions for the correct operation of the machine which, if followed, will ensure that it performs at it's best

All information, illustrations and specifications in this manual are based on latest information available at the time of publication. The right is reserved to make changes at any time without notice.

SAFETY DECALS

-Safety Decal Locations





- Read the operator's manual for complete operating instructions and safety.
 Be sure that anyone operating the loader.
- should be aware of safe operating practices and potential hazard.
- Operate the loader from the operator's seat only
 Do not lift or carry anyone on the loader or
- work from bucket or attachment.

 Do not work under the raised loader,
 bucket or attachment if it is not securely
- Avoid loose fill, rocks and holes; these can be dangerous for loader operation or movement.
- Use extra caution when working on steep hills
 Avoid overhand power lines or obstacles when loader is raised.

8540-500-005-

A WARNING

- Add recommended rear wheel ballast and /or rear counter-weight for stability.
- Move wheels to the widest recommended setting for increasing stability.
- 3. Move and turn tractor at low speeds.
- In transport, carry the load lower.
- Lower loader to the ground when parking.
- Before servicing or adjusting equipment.
 Lower the loader to the ground.
 Shut off the engine.
- Relieve hydraulic pressure before disconnecting oil lines.
- Observe safety recommendation in Loader Operation Manual, 8540-500-006-

▲ WARNING

NEVER TAKE USE OF FRONT END LOADER WITH TOWING OPERATIONS.

8540-500-0

A DANGER

INTALL SAFETY PROP BEFORE WORKING UNDER RAISED STRUCTURE

8540-500-009-0

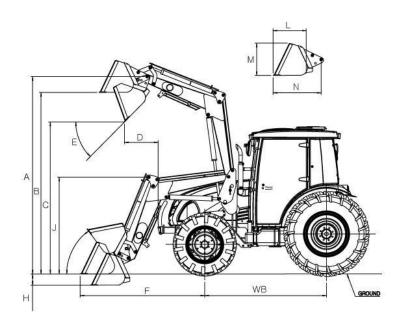
-Care of Safety Decals.

- 1. Keep safety decals clean and free of obstructing material.
- 2.Clean safety decals with a soft cloth.

8540-500-004

- 3. If a component with a safety decal (s) affixed is replaced with a new part, make sure new safety decal (s) are attached in the same location (s) as the replaced components.
- 4. Mount new safety decals by applying on a clean dry surface and pressing air bubbles to outside edges.

LOADER SPECIFICATION



Loader Total Weight (1+2+3) 542 kg 1 Weight of Boom & Quick Atta. 298 kg 2 Weight of Mounting Frame 129 kg 3 Weight of Bucket 115 kg Boom raising time	1,194 lb
2 Weight of Mounting Frame 129 kg 3 Weight of Bucket 115 kg	
3 Weight of Bucket 115 kg	657 lb
The state of the s	284 lb
Boom raising time	254 lb
	3.5 sec
Boom lowering time	2.4 sec
Bucket rollback time	1.8 sec
Bucket dumping time	2.6 sec

		_	
Α	Maximum lift height to pivot pin	2,743 mm	108.0 "
В	Maximum lift height under lever bucket	2,525 mm	99.4 "
С	Clearance with bucket dumped	2,028 mm	79.8 "
D	Reach at maximum lift height	377 mm	14.8 "
E	Maximum dump angle	56 °	56 °
F	Reach with bucket on ground	1,748 mm	68.8 "
G	Maximum rollback angle	48 °	48 °
Н	Digging depth	76 mm	3.0 "
J	Overall height in carry position	1,523 mm	60.0 "
L	Depth of Attachment (to back of inner shell)	536 mm	21.1 "
М	Height of Attachment	520 mm	20.5 "
N	Length of Attachment (to pivot pin)	726 mm	28.6 "
	Lift capacity to maximum height at pivot pin	1,148 kgf	2,531 lb
	Breakout force at ground level, pivot pin	1,652 kgf	3,642 lb
	Bucket rollback force at ground line	1,622 kgf	3,576 lb
	Relief valve setting (Loader control valve)	178 kg/cm ²	2,532 psi
	Rated Flow (Tractor System)	41.6 L/min	11.0 gpm
	Lift Cylinder	55X30 mm	2.2X1.2 "
	Bucket Cylinder	55X30 mm	2.2X1.2 "
	Bucket Width	1740 mm	69 "
	Bucket Capacity	0.25 m ³	8.8 ft ³
	S.W.L / R.O.L (Counter Weight on 3PL)	600(400) kgf	1322(882) lb

INTRODUCTION

The purpose of this manual is to assist you in maintaining and operating your loader. Read it carefully, it furnishes information and instructions that will help you achieve years of dependable performance. Some information may be general in nature due to unknown and varying conditions. However, through experience and these instructions, you should be able to develop operating procedures suitable to your particular situation.

"Right" and "Left" as used throughout this manual are determined by facing the direction the machine will travel when in use.

The photos, illustrations and data used in this manual are current at the time of printing, but due to possible in-line production changes, your machine may vary slightly in detail.

The manufacturer reserves the right to redesign the machine as may be necessary without notification.

Loader Serial Number Information							
Date purchased							
Loader Serial Number							
Dealer Name and Telephone Number							

Important

-Illustrations used in this manual may not show all safety equipment that is recommended to ensure safe operation of tractor and loader. Refer to the Safety Precautions section of this manual for information concerning safety. Consult your dealer for further information.

Warranty Registration

The Delivery and Warranty Registration forms must be filled out and signed to validate your warranty protection.

The items on the form under "I hereby Acknowledge" should be read and understood.

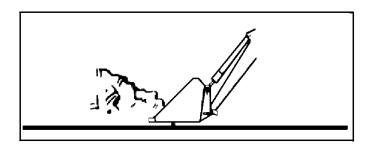
The terms and conditions of the warranty on this machine are specified in the front of this manual.

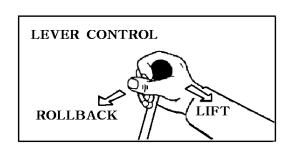
Serial Number and Location

The serial number is important information about the machine and it may be necessary to know it before obtaining the correct replacement part. The serial number plate is located on the LH(left hand) inside of front area of boom. The serial number should be recorded on the Deliver and Registration form and also below for your reference.

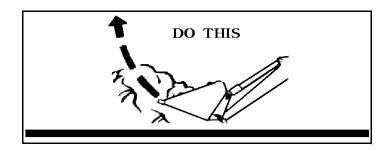
FILLING THE BUCKET

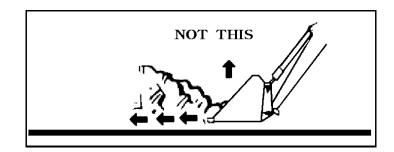
Approach and enter the pile with a level bucket. Ease lever back and toward you to lift and rollback the bucket.





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 LOADER



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.

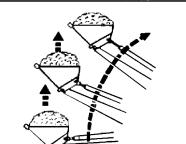


CAUTION

Make sure material in bucket cannot rollout 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.

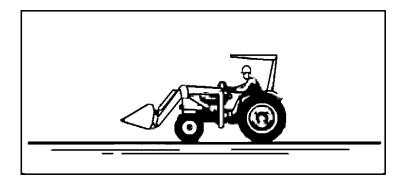


CARRYING THE LOAD

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

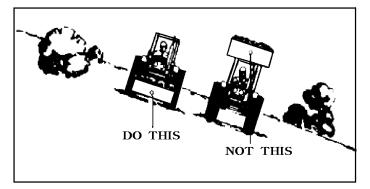
You need to drive at a reduced speed, e.g 10 km/h max, with a loaded attachment

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.

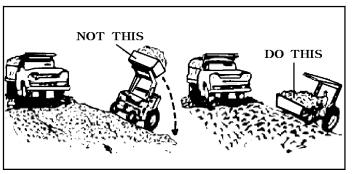




Operating the loader on a hillside is dangerous. Extreme care is recommended.



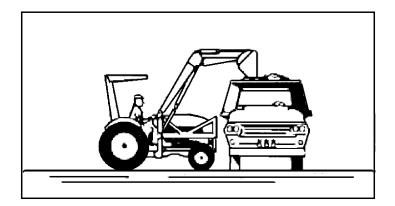
When transporting the load, keep the bucket as low as possible to avoid tipping,in case a wheel drops in a rut.



DUMPING THE BUCKET

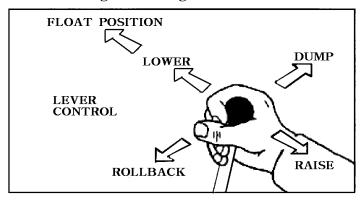
Lift the bucket high enough to clear the side of the vehicle.

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



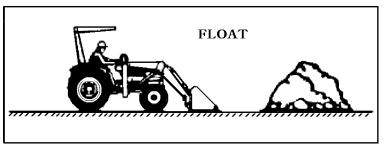
LOWERING THE BUCKET

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

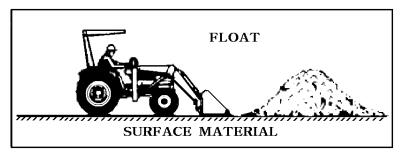


OPERATING WITH FLOAT CONTROL

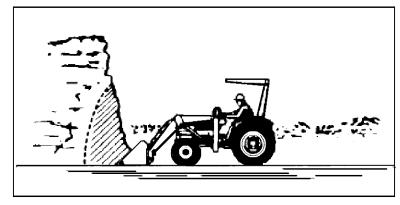
During hard surface operation, keep the bucket level and put the lift control in the float position to permit the bucket to float on the working surface. If hydraulic down pressure is exerted on the bucket, It will wear faster than normal.



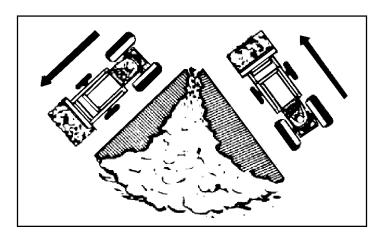
The float will also prevent the mixing of surface material with stockpile material. The float position will reduce the chance of surface gouging when removing snow or other material.



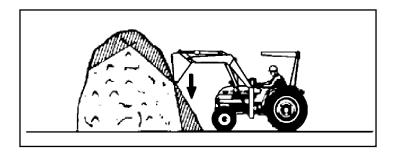
LOADING FROM A BANK



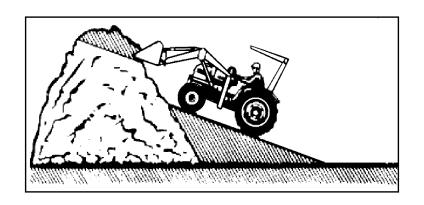
Exercise caution when under cutting high Banks.Dirt slides can be dangerous. Load from as low as possible for maximum efficiency. Loader lift and breakaway capacity diminish as loading height is increased.



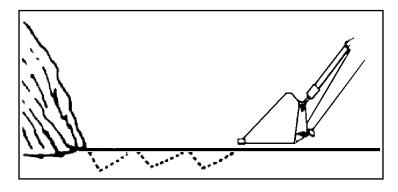
Side cutting is a good technique for cutting down a big pile



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.

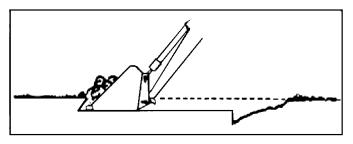


Another method for large dirt piles is to build a ramp approach to the pile.

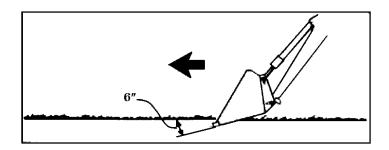


It is important to keep the bucket level when approaching a bank or pile. This will help to prevent gouging the work area

PEELING AND SCRAPING

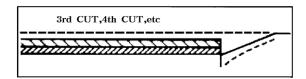


Use a slight bucket angle,travel forward,and hold the lift control forward to start the cut. Make a short, angle cut approximately 6" deep and break out cleanly.

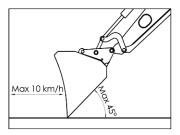


With the bucket level, start a cut at the notch approximately 2" deep.

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 to maintain proper depth.

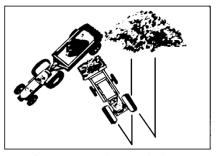


Make additional passes until the desired depth is reached. During each pass, only use the bucket control while at working depth. This will allow you to concentrate on controlling the bucket angle to maintain a precise cut.



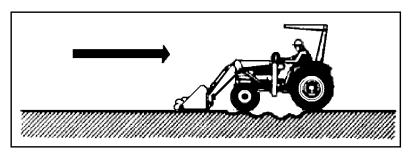
When levelling do not drive faster than 10 km/h. In this process, tilt the implement a maximum of 45°.

LOADING LOW TRUCKS OR SPREADERS FROM A PILE



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

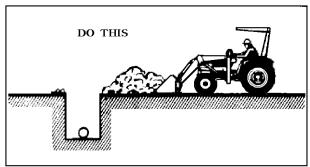
BACK FILLING



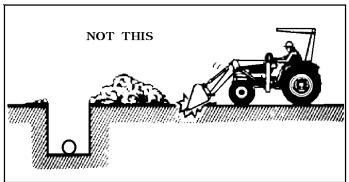
Backgrade occasionally with a loaded bucket to keep the working surface free of ruts and holes. Hold the lift control forward in FLOAT POSITION so the full weight of the bucket is scraping the ground. Use only the heel of the bucket while backgrading.

IMPORTANT: To prevent damage to Cylinders:

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

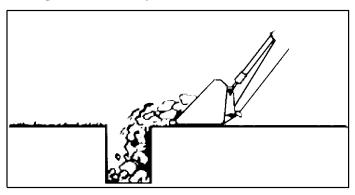


Approach the pile with a flat bucket

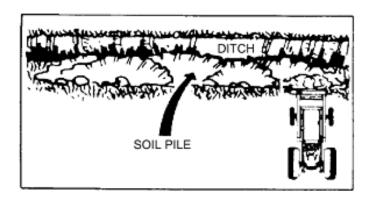


Poor methods actually move no more dirt and make it more difficult to hold a level grade.

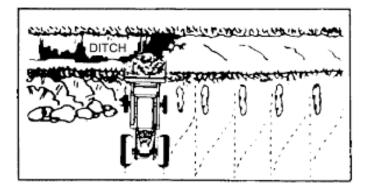
Do not use the bucket in the dumped position for bulldozing or backgrading. This method, shown above, will impose severe shock loadings on the dump linkage, the bucket cylinder, and the tractor.



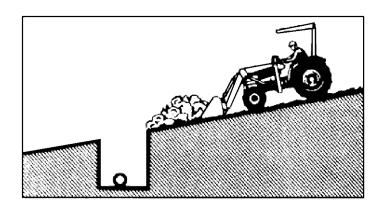
Leave dirt in the bucket because dumping on each pass wastes time.



Operate at right angles to the ditch. Take as big of turn 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.

HANDLE 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.

TRACTOR PREPARATION

Caution

- Do not exceed rated operating load

- ROL with counter weight: 600kg

- Counter weight: 400kg

Caution

-Add recommended rear tire liquid weight, rear wheel or rear ballast for increased stability.

Caution

- -Do not exceed the manufacturer's rating for maximum gross vehicle weight.
- -Refer to Operator's Manual or ROPS serial plate provided with tractor.
- -The use of adequate counterweight to counter balance for maximum loader capacity is required for safe loader operation.
- -Weight added to rear of the tractor provides better traction and easier, more efficient loader operation, The tractor can be counter weighted by filling rear tires with liquid calcium solution and/or by the installation of rear wheel weights.
- -Additional counterweight requirements will vary with loader attachments and equipment applications.
- -Additional weight can be added by installation of Three Point Hitch mounted ballast.

Caution

The tractor/loader must only be operated with all safety equipment properly installed.

TRACTOR TIRES

-Selection of tires(size, profile, tread type) should be restricted to tire recommendations as specified by Shibaura

Tire Inflation

- -Front tires must be maintained at the maximum recommended inflation to Maintain normal tire profile with the added weight of loader/material.
- -Rear tires must be maintained at equal pressure within the recommended tire inflation range.
- -Unequal rear tire inflation can prevent loader attachment from contacting the ground across its full width.

Caution

- -Certain specific conditions may not permit safe use of loader at loader rating or may require more careful restricted operation at the rated load.
- -Refer to Tractor Operator's Manual for specific recommendations on counterweight tractor.

ROPS System

-The tractor must be equipped with an approved ROPS System to ensure adequate operator's protection.

Tractor Hydraulic System

- -Tractor operation in a loader application significantly increase demands on the tractor Hydraulic System.
- -Check the tractor Hydraulic system fluid level daily.
- -Refer to your tractor Operator's Manual maintenance section for instructions regarding tractor hydraulic system maintenance.
- -Adhere to recommendation in your Tractor Operator's Manual concerning hydraulic fluid and filter specifications, and change intervals.

Wheel Tread Settings

-Tractor front wheel tread setting must be restricted to wheel tread spacing recommended in the tractor Operator's Manual.

Front Counterweight

 -Use of front counterweight is not recommended when tractor is being used in a loader application.
 Front counterweight adds unnecessary front axle load in loader applications.

LOADER OPERATION

Caution

The tractor/loader should only be operated with all safety equipment properly installed.

Precautionary Notes

Do not lower the edge of the bucket too low for loading. Keep the bottom of the bucket level with the ground when loading.

Important

Do not use the bucket for pushing down material with bucket cylinders partially extended.

Damage to the cylinders may result.

Important

Do not tip bucket cutting edge down(fully extended bucket cylinders) during backfilling/back grading operations.

Important

- -Operation with front tractor wheels off the ground is not recommended.
- -Position vehicle to be loaded as near the pile as possible and in such a direction as to minimize the amount of tractor turning required to dump.
- -Do not lower the loader with the tractor engine shut off.
- -Keep the unit clean and perform regular service. Observe safety messages whenever cleaning, servicing, or lubricating.

We urge you to follow this advice:

- 1.Read and understand this manual as well as the Tractor Operator's Manual.
- 2.Remember and observe the Safety Precautions brought to your attention in this manual, the tractor manual and on the machinery itself.
- 3.Use good common sense in the everyday operation of this unit. Safety recommendations can never be all-inclusive and you are responsible for watching out for and avoiding unsafe conditions.
- 4. Never exceed the limits of a piece of machinery. If its ability to do a job or to do so safely is in question, don't try it.
- Don't hurry the learning process or take the unit for granted. Ease into it and become familiar with your new loader and tractor.

Caution

When lowering a heavy load, ease it downward slowly. Never drop a loaded attachment and "catch it hydraulically" Stopping a load after it has gained downward momentum places undue strain on the unit and may cause unnecessary damage to the loader or tractor or even worse cause, personal injury.

Caution

Before disconnecting hydraulic lines, relieve all hydraulic pressure.

Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin causing serious personal injury. If injured by escaping hydraulic oil, seek medical attention immediately.

Caution

Do not operate the loader if the fittings are leaking or if the hoses are damaged.

A sudden line burst would cause the mainframe to drop suddenly, causing damage to the tractor or loader or injury to personnel.

Initial Loader Operation

Before operating the loader fully raise and lower the boom two or three time. Then raise the bucket approximately

four(4) feet above the ground and cycle the bucket to the ground.

Check the tractor hydraulic oil and the correct oil level.

Caution

Before leaving the machine, stop the engine, remove the key, place all controls in neutral, and either set the parking brake or place tractor in park as equipped.

Always keep cylinders in a retracted position when the loader is not in use to guard against rust and contamination which may cause damage to the cylinder rods or hydraulic system.

Cold Weather Operation

For smooth operation in cold weather, let the tractor warm up. Slowly cycle the lift and bucket cylinders several times to warm the oil in the hydraulic system. The loader may

operate erratically until the hydraulic oil has warmed to operating temperatures.

LOADER OPERATION

Caution

Operate controls only when seated in the operator's seat

Loading Bucket

For the most efficient loading, slowly drive the tractor straight into the material to be loaded and increase speed only after contact has been made. Roll the attachment back a small amount and slowly lift to break away the material. As the load increases, continue rolling the attachment back so as to get the maximum load.

Remove the top levels first when loading from large piles of material When bucket is full, raise loader so the bucket is clear of material and slowly back out of the pile.

Dumping Bucket

When in the dump area, slowly drive the tractor forward and raise the loader at the same time.

Raise the loader to the height needed to dump the bucket. Make sure to keep a level bucket position to prevent spilling from the bucket. Dump the bucket, and keep all movements smooth.

Transporting a Loaded Bucket

Transport material with the bucket as low as possible to prevent spilling and keep maximum stability. The loader must be in a position that will not block the operators' vision. A loaded bucket must not be transported in the upright position or at excessive speed.

Observe the following safety warning when transporting a loaded bucket.

Caution

When using a loader, be aware of bucket location at all times.

When raising a loader with bucket rolled back, material can dump onto tractor causing damage to tractor or injury to operator.

Caution

Contact with overhead power lines can cause severe electrical burns or death from electrocution.

Make sure there is clearance between raised equipment and over head power lines.

Caution

Stop the loader arms gradually when lowering or lifting.

Caution

A loaded bucket should be transported in a low position at low ground speeds.

Make turns slowly and use the tractor brakes cautiously. A full bucket in the raised position alters the center of gravity location of the machine and increases the possibility of accidents.

Caution

Do not stand, walk or work under a raised loader unless it is securely blocked or held in position.

Accidental movement of a control lever or leak in hydraulic system could cause the loader to drop, or attachment to dump, resulting in serious injury or death.

Scraping

When scraping, the boom lever must be used to keep the bucket on the ground horizontally.

The bucket must be kept level to the ground during scraping operations.

Backfilling/Back grading

When "Backfilling" of "Back grading", position the bucket so it is level on the ground.

Do not dump material from bucket following each pass, as additional weight of material in

bucket will assist in "Back grading" and increases loader efficiency during "backfilling"

Controlled Rate of Loader Functions

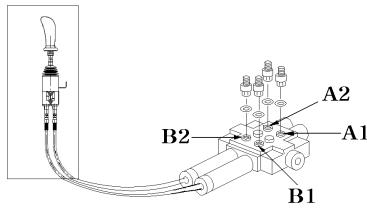
By "feathering" the control lever, reduced operational speeds can be controlled.

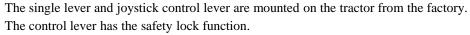
This action controls the position of the valve spool in the valve body and regulates flow of oil to/from cylinders.

It is important to utilize this operational practice when lowering loader boom when the bucket is loaded with material.

LOADER OPERATION

Loader Hydraulic Controls





Lock the control level when leaving the tractor while the Bucket is in the air.

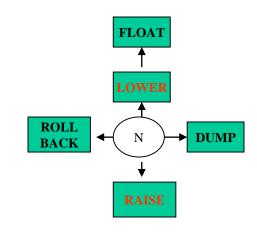
The loader hydraulic valve lift Cylinder circuit incorporates a "FLOAT" position which allows the loader bucket to follow ground contours. The "FLOAT" position is engaged by shifting the control lever forward into "Detent" until the operator pulls the control lever out of the "Detent" position.

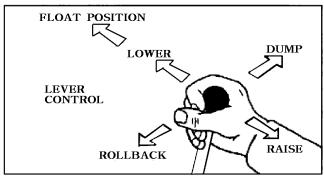
Refer to "Scraping" operation for recommended use of "FLOAT" position.

The control valve has a neutral position that prevents movement of loader or bucket. When the control valve is released from the work position, the spool will return to neutral.

Important:

Contaminates in hydraulic oil can cause valve spools to stick. Be alert when operating loader and follow your Tractor Operator's Manual maintenance schedule.





LOADER REMOVAL

Caution

Never park loader without bucket attached the loader.

Caution

Never allow weight of tractor to be put on parking leg when removing loader

STEP 1.

Park the tractor and loader on hard level surface.

STEP 2.

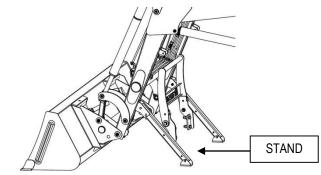
Raise the boom until the bucket is about 2 feet off the ground.

STEP 3.

Set the parking legs with pivot pin and keeper.

STEP 4.

Lower the boom until the parking legs make contact on the ground. Tip the bucket until the bucket cutting edge touch the ground.



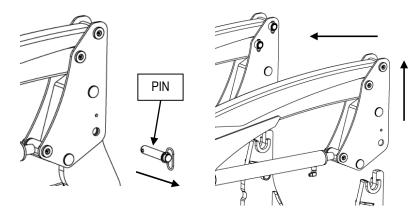
STEP 5.

Remove the latch pin while moving the control lever back and forth Slightly to make the latch pin loose.

STEP 6.

Pull the control lever to raise the loader until the positon.

Adjust the bucket until the bottom surface of bucket touches the ground.



STEP 7.

Move the tractor rearward slowly and stop to avoid the hydraulic hoses being tighten.

STEP 8.

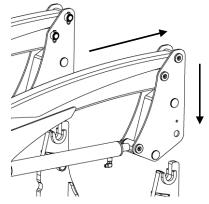
More the control lever back and forth, left and right several times to reduce the hydraulic pressure in the hoses.

STEP 9. Disconnect the quick couplers on the hydraulic hoses.

LOADER MOUNTING

Caution

Never allow weight of tractor to be put on parking leg when mounting loader.



STEP 1.

Carefully drive the tractor into the loader to a position where the hydraulic hoses (Quick coupler) can be connected to the control valve block.

STEP 2.

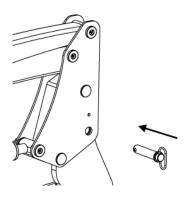
Stop the engine and move the control lever back and forth, left and right several times to reduce the pressure in the hydraulic hoses.

Connect the hydraulic couplers, match the color code rings.

STEP 3.

Start the engine and move the boom and bucket to adjust the height of the post.

Be sure to check that the hook of inner mounting frame is slightly higher than the pin welded on mounting frame.



STEP 4.

Move the tractor forward to put into the inner mounting frame.

Stop the tractor when the hook is right over the pin.

Lower the inner mounting frame with moving the boom and bucket until it hooked securely each other.

STEP 5.

Align the latch pin holes with moving the bucket and boom. Insert the latch pins.

Rubber hammer can be used to put the pin in if needed.

STEP 6.

Remove pin and keeper, holding the parking legs and return to storage position, make secure by using pin and keeper.

LUBRICATION AND MAINTENANCE

Caution

Do not perform any service or maintenance operations with loader raised off the ground.

For additional access to tractor components remove loader.

Important

Lower the loader to the ground and relieve pressure in loader hydraulic lines prior to performing any service or maintenance operations on the tractor or loader.

Caution

Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious injury. Before disconnecting lines, be sure to relieve all pressure.

Before applying pressure to the system, be sure all connections are tight and that lines, pipes and hoses are not damaged. Fluid escaping from a very small hole can be almost invisible.

Use a piece of cardboard or wood rather than your hands to search for suspected leaks.

If injured by escaping fluid, seek medical attention immediately. Serious infection or reaction can develop if correct medical treatment is not administered immediately.Refer to Lubrication and maintenance Chart" for quick reference to Maintenance Operations.

Caution

Do not operate the loader if the fittings are leaking or if the hoses are damaged.

A sudden line burst could cause the mainframe to drop suddenly, causing damage to the tractor or loader or injury to personnel.

Caution

Operate the loader from the tractor seat only.

Caution

Do not stand or walk under a raised loader. Accidental movement of control lever or leak in hydraulic system could cause mainframe to drop, causing severe injury.

Check the tractor hydraulic system as outlined in the Tractor operator's Manual.

Note

When checking hydraulic system oil level, the loader should be on the ground and bucket fully retracted

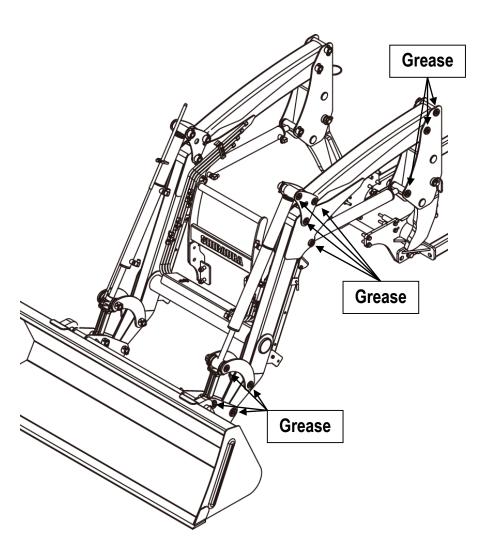
(all cylinders in retracted position).

Grease all loader pivot points daily (10 hours).

Refer to Tractor Operator's Manual for lubricant recommendations. Inspect hydraulic hoses, connections, control valve and cylinders for evidence of leakage.

Tractor tires should be maintained at maximum recommended inflation to maintain normal tire profile with added weight of loader/material. Unequal rear tire inflation can result in bucket not being level to the ground.

LUBRICATION AND MAINTENANCE



ITEM	SERVICE	SERVICE INTERVAL
Hydraulic system oil level	Check	Daily/10 hours
Hydraulic system oil/Filter	Replace	As specified in Tractor Operator's Manual
Tire Inflation	Check	Weekly/50 hours
Loader pivot points	Lubricate	Daily/10 hours
Loader hydraulic lines, hoses Connections	Check for leaks, wear	Daily/10 hours
Lift and bucket cylinder rod packing	Check for seepage, service as needed	Daily/10 hours
Pivot bolts and dust covers	Check, replace if missing	Daily/10 hours
Mid-mount latch and lynch pins	Check, replace if necessary	Daily/10 hours
Loader mount hardware	Check visually	Daily/10 hours
Loader mount hardware	Retighten	Every 25 hours

This Trouble Shooting Chart is provided for reference to possible loader operational problems. Determine the problem that best describes the operational problem being experienced and eliminate the possible causes as Listed by following the correction procedures.

PROBLEM	POSSIBLE CAUSE	CORRECTION			
	Low hydraulic fluid level.	Check and replenish hydraulic fluid.			
	Hydraulic hoses connected improperly.	Check and correct hydraulic hose connections.			
	Hydraulic hoses to/from control valve blocked	Check for damage (kinked) hoses,etc.			
	Loader control valve or tractor main relief valve stuck open	Check system pressure. Repair or replace relief valve.			
	Low system pressure supplied from hydraulic pump.	Check system pressure. Repair or replace pump.			
Loader Lift slow and/or will not Dump	Control valve linkage broken.	Inspect. Repair as required.			
	Quick disconnect coupler(s)are not fully connected or "Flow Check"	Check coupler connections. Replace coupler(s) unnecessary.			
	Hydraulic hose or tube line blockage.	Check for evidence of damage to hoses or tube lines that would block flow of oil between cylinders and control valve.			
	Cylinder piston assembly defective(not sealing)	Check cylinders for internal leakage as described in service section under cylinder leakage tests.			
	Control valve blockage.	Inspect for blockage.			
Lift and/or Bucket Cylinders operate in wrong direction relative to control valve level position.	Hydraulic hoses connected incorrectly	Correct hydraulic hose connections.			
	Low hydraulic fluid level.	Check and refill hydraulic system to proper level.			
Aeration of Hydraulic Fluid (Generally indicated by foamy	Air leaking into suction side of hydraulic pump	Check for loose or defective connections between reservoir and hydraulic pump.			
appearance of fluid)	Hydraulic fluid foaming due to improper hydraulic oil usage.	Left to Tractor Operator's Manual and replace hydraulic oil using recommended hydraulic oil.			

PROBLEM	POSSIBLE CAUSE	CORRECTION				
	Low hydraulic fluid level.	Check and replenish hydraulic fluid.				
	Cold hydraulic fluid.	Allow hydraulic system to warm up to operating temperature.				
	Engine RPM too slow (hydraulic pump RPM too slow).	Increase engine speed to obtain satisfactory loader operation.				
	Excessive weight in bucket. Material weight exceeds maximum specified loader capacity.	Reduce material load.				
	Control valve linkage binding/defective	Check control valve linkage and repair if worn/defective.				
	Aeration of hydraulic fluid	Refer to "Aeration of Hydraulic Fluid"				
Slow or erratic lift	Quick disconnect coupler restriction or coupler "Flow checks"	Check coupler connections. Repair or replace.				
	Hydraulic hose or tube line restriction (hose/tube line) kinked or pinched.	Check hoses and tube lines for evidence of restriction.				
	Lift cylinder piston assembly leakage.	Check cylinders for leakage. Repair as needed.				
	Relief valve erratic or set below specifications.	Check and reset relief valve. Set as needed.				
	Control valve leaking internally. (bypassing fluid within valve)	Replace control valve and recheck operation.				
	Inadequate hydraulic pump capacity.	Refer to "Hydraulic Pump Capacity Inadequate"				
	Engine RPM too slow.	Increase engine RPM				
	Excessive load-material weight exceeds specified loader capacity.	Reduce load.				
Inadequate lifting capacity	Relief valve setting below specifications.	Check and reset relief valve setting as needed.				
сарасну	Lift cylinder piston assembly leakage	Check cylinders for leakage. Repair as needed.				
	Control valve leaking internally.	Replace control valve and recheck operation.				
	Hydraulic pump defective.	Refer to "Hydraulic Pump Capacity Inadequate"				

PROBLEM	POSSIBLE CAUSE	CORRECTION			
	Cold Hydraulic Fluid.	Allow hydraulic fluid to warm up to operating temperature.			
System relief valve squeals.	Excessive load in bucket. Weight exceeds specified loader capacity.	Reduce load.			
	Relief valve setting below specifications.	Check and reset valve setting as needed			
	Hydraulic hose, tube line or quick disconnect coupler restriction.	Check for evidence of restriction in hydraulic oil flow. Repair or replace defective components.			
Loader drops with control valve spool in "centered" position (no external oil	Cylinder piston assembly leakage.	Check cylinder for leakage.			
leakage evident.) Note:A gradual drop over an extended period of time is a normal condition.	Control valve internal leakage.	Replace control valve and recheck.			
	Control lever linkage binding.	Determine origin of binding and repair.			
Control valve spool(s) will not return to centered position.	Control valve spool centering is broken.	Replace centering spring.			
return to centered position.	Control valve spool binding in valve body spool bore.	Disassemble valve for inspection and repair			
	Loose hydraulic connection.	Tighten loose connections.			
	Defective hydraulic hose, tubeline, adapter fitting or adapter fitting O-ring.	Check for origin of oil leak and replace defective part.			
External hydraulic fluid leakage.	Control valve O-rings defective.	Replace defective O-rings			
	Control valve spool or body damaged or worn.	Replace control valve.			
	Cylinder rod packing set leakage.	Check cylinders for leakage. Repair as needed.			

PROBLEM	POSSIBLE CAUSE	CORRECTION
	Cold hydraulic fluid.	Allow hydraulic fluid to warm up to operating temperature.
	Engine RPM Too slow.	Increase engine RPM
Hydraulic pump capacity Inadequate.	Low hydraulic fluid supply	Refer to Tractor Operator's Manual for service recommendations.
	Hydraulic hose restriction.	Check for evidence of restriction in hydraulic hose.
	Hydraulic pump defective.	Refer to Tractor Operator's Manual for recommend service procedures. Replace hydraulic pump if determined to be defective.
Lift cylinder rod bend when lift cylinders extended.	Excessive shock load on lift cylinders during transport.	Replace defective parts. Review and observe proper and safe operational practices.
Bucket cutting edge wear is uneven side to side	Bucket is not level to ground.	Check rear tire inflation and adjust to level bucket to ground.
Bucket cutting edge wear rate is excessive.(Wear rate is even across full width of bucket). Note: Extensive use of bucket on	Incorrect operational practices. Excessive down pressure placed on bucket when being used on hard abrasive surfaces.	Refer to operation-scraping section for correct operating procedures. Utilize float position.
concrete or asphalt surfaces will accelerate wear rate of bucket cutting edge.	Bucket wear pads worn.	Replace wear pads.

METRIC FASTENER(ISO) TORQUE CHART

Note: Use these torques. Unless special torques are specified. Values are for UNF thread fastener, plated or un-plated as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite. moly-disulphide or other extreme pressure lubricant is used.

SAE Grade No.		2	5				8* \(\) \(\) \(\)					
Bolt head identification (see note 1)	\bigcirc											
D-14 -!	LB	FT	N	NM		LB FT		NM		FT	NM	
Bolt size	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1/4	5	6	7	8	9	11	12	15	12	15	16	20
5/16	10	12	14	16	17	20.5	23	28	24	29	33	39
3/8	20	23	27	31	35	42	48	57	45	54	61	73
7/16	30	35	41	47	54	64	73	80	70	84	95	114
1/2	45	52	61	70	80	96	109	130	110	132	149	179
9/16	65	75	88	102	110	132	149	179	160	192	217	260
5/8	95	105	129	142	150	180	203	244	220	264	298	358
3/4	150	185	203	251	270	324	366	439	380	456	515	618
7/8	160	200	217	271	400	480	542	651	600	720	814	976
1	250	300	339	406	580	696	787	944	900	1080	1220	1464
1 1/8					800	880	1085	1193	1280	1440	1736	1953
1 1/4					1120	1240	1519	1681	1820	2000	2468	2712
1 3/8					1460	1680	1980	2278	2380	2720	3227	3688
1 1/2					1940	2200	2631	2983	3160	3560	4285	4827

Note.1:Bolt head identification marks as per grade. Manufacturing marks will vary.

^{*}Thick nuts must be used with Grade 8 bolt

METRIC FASTENER(ISO) TORQUE CHART

Note: Use these torques. Unless special torques are specified. Values are for UNF thread fastener, plated or un-plated as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite. moly-disulphide or other extreme pressure lubricant is used.

ISO Class No.		8.	8		10.9			12.9						
Bolt head identification (see note 1)					(,)									
Doll4 aims	LB FT		N	M	LB	LB FT		M	LB FT		N	M		
Bolt size	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max		
M4	2	3	3	4	3	4	4	5						
M5	5	6	6.5	8	7	8	9.5	11						
M6	8	9	10.5	12	11	13	15	17.5						
M8	19	23	26	31	27	32	37	43	Because of thes	•				
M10	38	45	52	61	54	64	73	87	range i	ned				
M12	66	79	90	75	93	112	125	150	applica					
* M14	106	127	144	172	149	179	200	245		al rule,the torquified for grade				
M16	160	200	217	271	230	280	310	380	10.9 fa satisfa					
M18	203	235	275	319	286	315	388	428	fastene	a				
M20	320	380	434	515	450	540	610	730	preferi					
M24	500	600	675	815	780	940	1050	1275						
M30	920	1100	1250	1500	1470	1770	2000	2400						

Note:Bolt head identification marks as per grade. Manufacturing mark will vary.

PART ILLUSTRATIONS

GENERAL INFORMATION

Illustrations

The individual parts in their normal relationship to each other. Reference numbers are used in the Illustrations. These numbers correspond to those in the "Number" column and are followed by the quantity required and description.

Directional Reference

"Right hand" and "left hand" sides are determined by standing at the rear of the unit and facing in the direction of forward travel.

Part Order

Orders must give the complete description, correct part number, the total amount required, the product model, all the necessary serial numbers, the method of shipment and the shipping address.

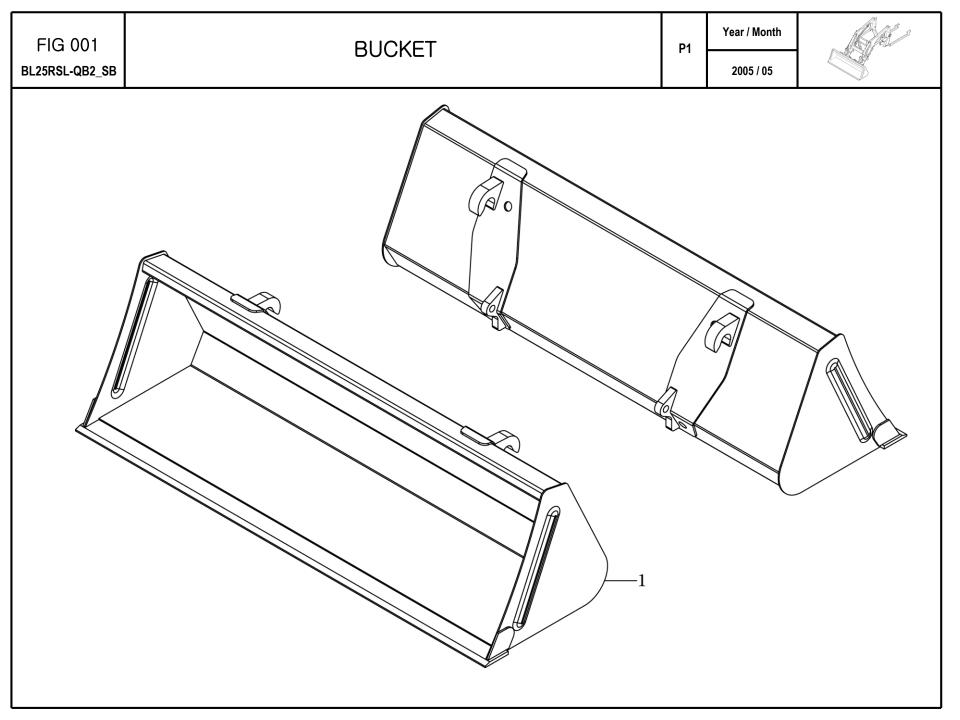


FIG	001		BUCKET		P1	Year/Month 2020/05	J. J
KEY	NO.	PART NO.	DESCRIPSTION	SPEC.	QTY.	EFFECTIVE DATE	REMARKS
001	001	81134001000GB	LOADER BUCKET COMP		1		
_							

FIG 002 BL25RSL-QB2_SB

QUICK ATTACHMENT ASSEMBLY

P1

Year / Month

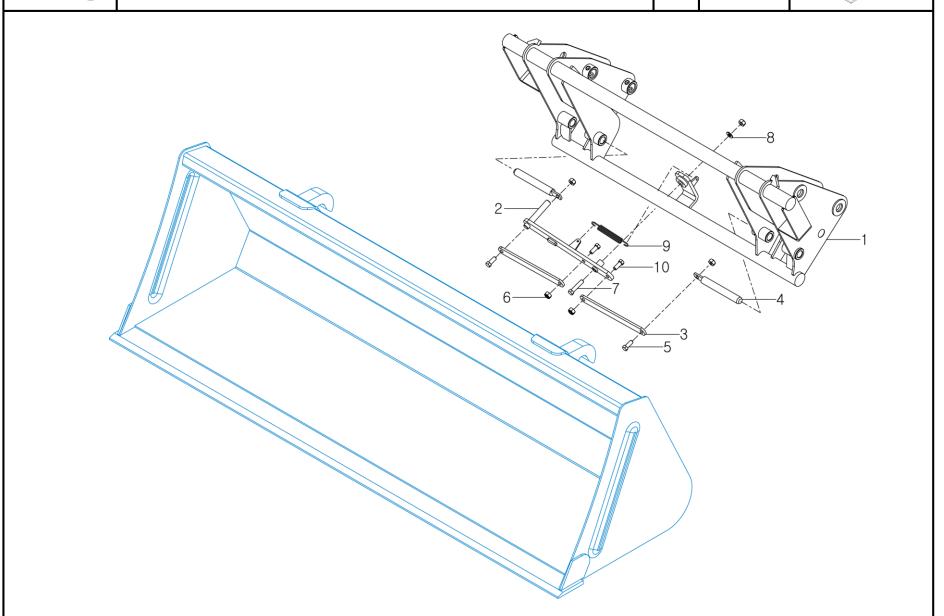


FIG	002	QUICK A	ATTACHMENT ASSEM	MBLY	P1	Year/Month 2020/05	
KEY	NO.	PART NO.	DESCRIPSTION	SPEC.	QTY.	EFFECTIVE DATE	REMARKS
002	000	81132005001	QUICK ATTACH ASS'Y		1	~2022.09	001-010
002	000	85382005000	QUICK ATTACH ASS'Y		1	2022.10~	
002	001	81092005100BR	QUICK ATTACH COMP		1	~2022.09	
002	001	81092005100GB	QUICK ATTACH COMP		1	2022.10~	
002	002	86902005202	PLATE COMP, LEVER		1		
002	003	86502005312	PLATE , LINK		2		
002	004	86502005401	PIN COMP, ATTACH		2		
002	005	V2013610025	BOLT , HEX	10X25	2		
002	006	85402003130	NUT, NYLON	M10	5		
002	007	V2013610045	BOLT , HEX	10X45	1		
002	800	V4111600100	WASHER , PLAIN	M10	1		
002	009	14722310033	SPRING		1		
002	010	V2013610030	BOLT , HEX	10X30	2		

FIG 003 BL25RSL-QB2_SB

MOUNTING FRAME ASSEMBLY

P1

Year / Month

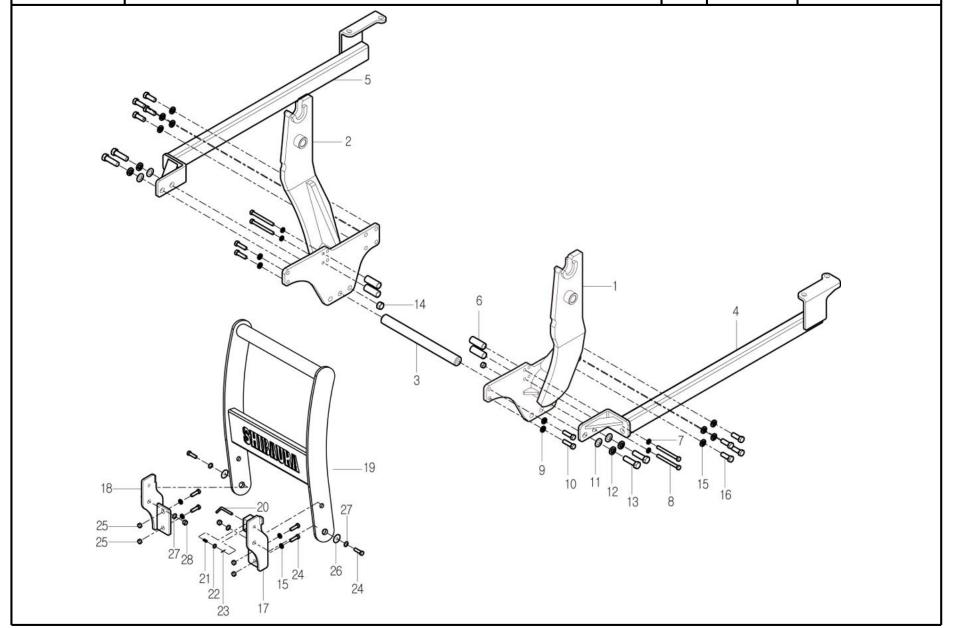


FIG	003	MOUNT	NG FRAME ASSEM	BLY	P1	Year/Month 2020/05	
KEY	NO.	PART NO.	DESCRIPSTION	SPEC.	QTY.	EFFECTIVE DATE	REMARKS
003	000	81731000000	MOUNTING FRAME ASS'Y		1		001-028
003	001	81101001004DB	MOUNTING FRAME COMP LH		1	~2022.09	
003	001	81101001004GB	MOUNTING FRAME COMP LH		1	2022.10~	
003	002	002 81101002004DB MOUNTING FRAME COMP RH 81101002004GB MOUNTING FRAME COMP RH			1	~2022.09	
003	002				1	2022.10~	
003	003	81101003011DB			1	~2022.09	
003	000	81101003011GB			1	2022.10~	
003	004	91101004002DD DEAD EDAME COMD I U			1	~2022.09	
003	004	81101004002GB REAR FRAME COMP LH			1	2022.10~	
003	005	91101005002DD DEAD EDAME COMD DU			1	~2022.09	
003	0	81101005002GB	REAR FRAME COMP RH		1	2022.10~	
003	006	81101001090	PIPE , MOUNT	OD27.2X3.9T	4		
003	007	V4011600120	WASHER, SPRING	M12	4		
003	800	V2014612125	BOLT, HEX	M12X125	4		
003	009	V4011600140	WASHER, SPRING	M14	4		
003	010	V2014614050	BOLT, HEX	M14X50	4		
003	011	V4111600200	WASHER , PLAIN	M20	4		
003	012	V4011600200	WASHER, SPRING	M20	4		
003	013	V2014620070	BOLT, HEX	M20X70	4		
003	014	V3044600200	NUT, HEX/2	M20	2		
003	015	V4011600160	WASHER, SPRING	M16	12		
			<next></next>				
							,

FIG 003 BL25RSL-QB2_SB

MOUNTING FRAME ASSEMBLY

P2

Year / Month

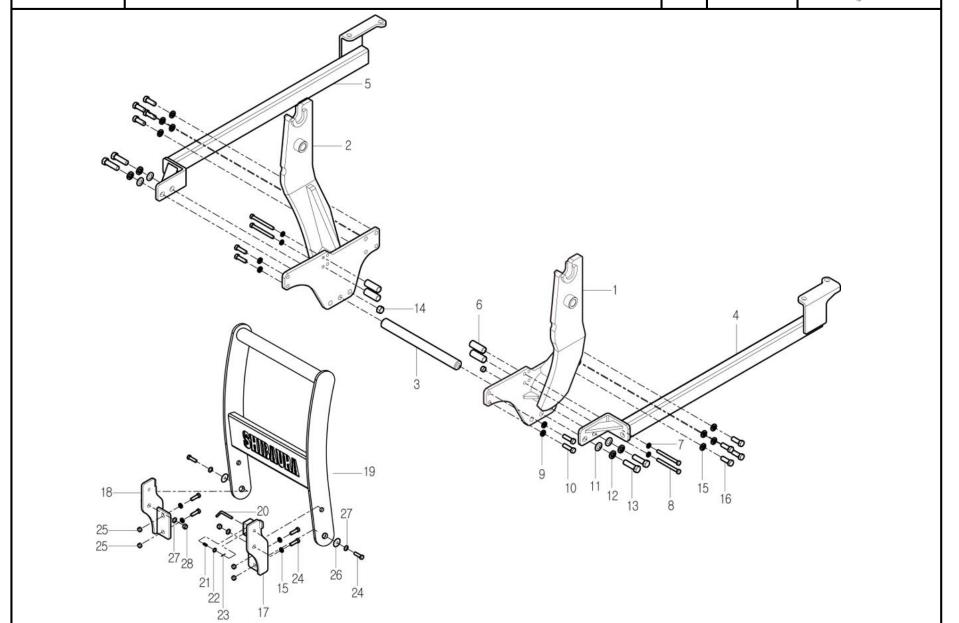


FIG	003	MOUNTI	NG FRAME ASSEM	BLY	P2	Year/Month 2020/05	
KEY	NO.			SPEC.	QTY.	EFFECTIVE DATE	REMARKS
003	016	V2014616045	BOLT, HEX	M16X45	8		
003	017	81101006102BR	GRILL GUARD COMP , LH		1	~2022.09	
003	017	81101006102GB	GRILL GUARD COMP , LH		1	2022.10~	
003	018	81101006301BR	GRILL GUARD COMP , RH		1	~2022.09	
003	010	81101006301GB	GRILL GUARD COMP , RH		1	2022.10~	
003	019	81711006200BR	PLATE COMP , GRILL GUARD		1	~2022.09	
003	019	81711006200GB	PLATE COMP , GRILL GUARD		1	2022.10~	
003	020	81101006012	PIN	D12	1		
003	021	10126004131	SPRING (HC34)	D1.6	1		
003	022	V4111600120	WASHER , PLAIN	M12	1		
003	023	V5001930025	PIN , SPLIT	3X25	1		
003		V2014616055	BOLT , HEX	M16X55	6		
003	025	V3043600160	NUT, HEX/2	M16	4		
003	026	81101006030	WASHER(16.3X52X2)	2.0T	2		
003	027	V4111600160	WASHER , PLAIN	M16	4		
003	028	86702000160	NUT, NYLON	M16	2		

Year / Month FIG 004 **BOOM ASSEMBLY P1** BL25RSL-QB2_SB 2005 / 05 10

FIG	004		BOOM ASSEMBLY		P1	Year/Month 2020/05	
KEY	NO.	PART NO.	DESCRIPSTION	SPEC.	QTY.	EFFECTIVE DATE	REMARKS
004	001	81122002005BR	BOOM COMP		1	~2022.09	
004	001	81122002005SR	BOOM COMP		1	2022.10~	
004	002	85702004201BR	LINK A , 220		2	~2022.09	
004	002	85702004201SR	LINK A , 220		2	2022.10~	
004	003	86002004312BR	PLATE A, LINK B		2	~2022.09	
004	003	86002004312SR	PLATE A, LINK B		2	2022.10~	
004	004	86002004302BR	LINK COMP B		2	~2022.09	
004	004	86002004302SR	LINK COMP B		2	2022.10~	
004	005	85102003501	PIN ASS'Y(25X126)		2		
004	006	86002003401	PIN ASS'Y(25X131)		4		
004	007	V2014610055	BOLT, HEX	M10X55	10		
004	800	85402003130	U NUT	M10	10		
004	009	86002003600	PIN ASS'Y(25X142)		4		
004	010	85402004090	SPACER		4		

FIG 005 BL25RSL-QB2_SB

POST & SELF LEVELING LINK

P1

Year / Month



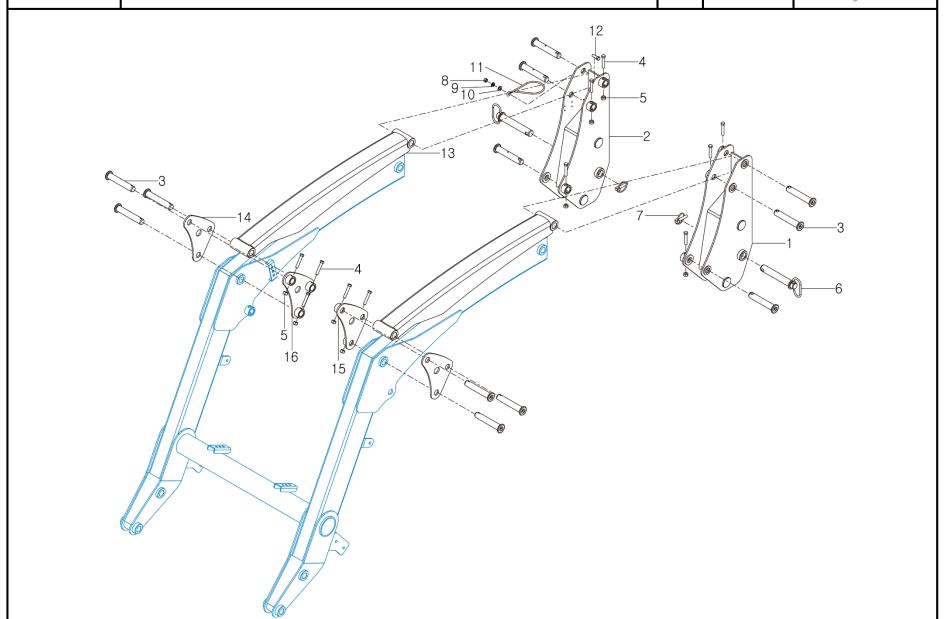


FIG	005	POST &	POST & SELF LEVELING LINK			Year/Month 2020/05	
KEY	NO.	PART NO.	DESCRIPSTION	SPEC.	QTY.	EFFECTIVE DATE	REMARKS
005	001	81122001000BR	POST COMP LH		1	~2022.09	
005	001	81122001000SR	POST COMP LH		1	2022.10~	
005	002	81122001100BR	POST COMP RH		1	~2022.09	
005	002	81122001100SR	POST COMP RH		1	2022.10~	
005	003	86002003600	PIN ASS'Y(25X142)		12		
005	004	V2014610055	BOLT, HEX	M10X55	12		
005	005	85402003130	U NUT	M10	12		
005	006	81102003300	PIN ASSY , HANDLE		2		
005	007	14215020020	LINK, PIN		2		
005	800	V3043600100	NUT, HEX/2	M10	1		
005	009	V4011600100	WASHER, SPRING	M10	1		
005	010	V4111600100	WASHER , PLAIN	M10	1		
005	011	81103009010	HOLDER , HOSE		1		
005	012	V2013610030	BOLT, HEX	M10X30	1		
005	013	81122003002BR	FRAME COMP , SELF LEVEL		2	~2022.09	
005	013	81122003002SR	FRAME COMP , SELF LEVEL		2	2022.10~	
005	014	85602002711BR	PLATE, SELF LEVEL		2	~2022.09	
005	014	85602002711SR	PLATE, SELF LEVEL		2	2022.10~	
005	015	85602002701BR	PLATE COMP , SELF LEVEL / LH		1	~2022.09	
005	013	85602002701SR	PLATE COMP , SELF LEVEL / LH		1	2022.10~	
005	016	85602002801BR	PLATE COMP , SELF LEVEL / RH		1	~2022.09	
005	010	85602002801SR	PLATE COMP , SELF LEVEL / RH		1	2022.10~	

Year / Month FIG 006 STAND ASSEMBLY **P1** BL25RSL-QB2_SB 2005 / 05

FIG	006	(STAND ASSEMBLY		P1	Year/Month 2020/05	
KEY	NO.	PART NO.	DESCRIPSTION	SPEC.	QTY.	EFFECTIVE DATE	REMARKS
006	001	85812004111BR	PIPE, STAND	50X50X3.2T	2	~2022.09	
006	001	85812004111SR	PIPE, STAND	50X50X3.2T	2	2022.10~	
006	002	86502000042	PIN, STAND	Ø10	2		
006	003	V2014610080	BOLT, HEX	M10X80	4		
006	004	85402003130	U NUT	M10	4		
006	005	86002004130BR	FOOT, STAND	6.0T	2	~2022.09	
006	005	86002004130SR	FOOT, STAND	6.0T	2	2022.10~	
006	006	V5601600010	PIN, SNAP		2		
_							
_							

FIG 007 BL25RSL-QB2_SB

LOADER VALVE

P1

Year / Month



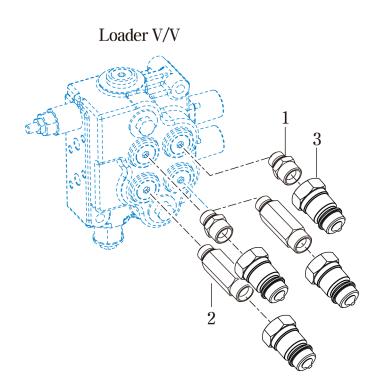


FIG	007		LOADER VALVE	P1	Year/Month 2020/05	Jan 1	
KEY	NO.	PART NO.	DESCRIPSTION	SPEC.	QTY.	EFFECTIVE DATE	REMARKS
007	001	85103009050	UNION 32	PF3/8 - PT3/8	2		
007	002	81103004091	UNION 52	PF3/8 - PT3/8	2		
007	003	V7740010601	NIPPLE	PT3/8	4		

FIG 008 BL25RSL-QB2_SB

HYDRAULIC ASSEMBLY

P1

Year / Month



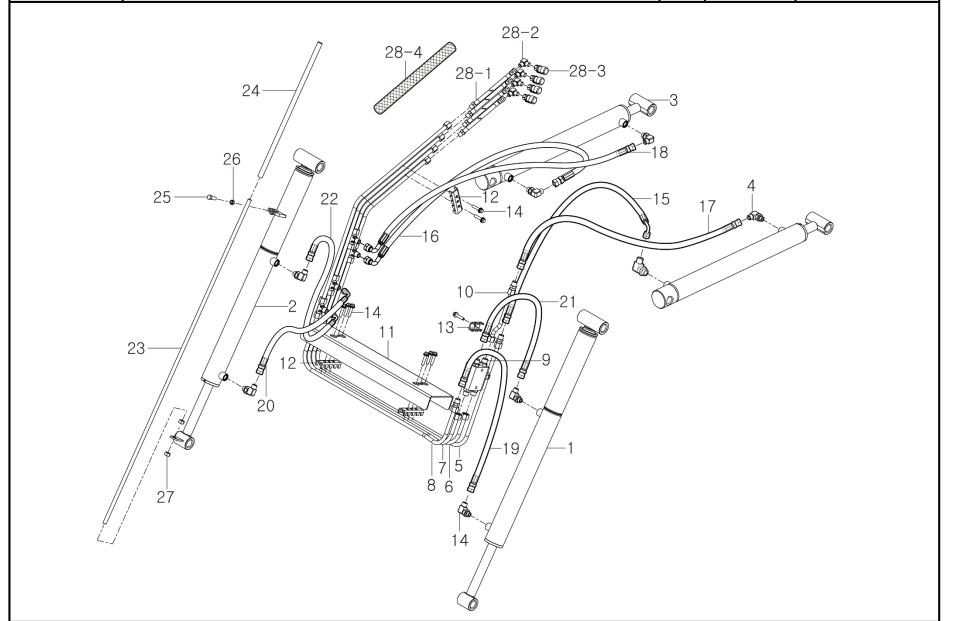


FIG	800	HYDRAI	JLIC PIPING ASSEMB	LY	P1	Year/Month 2020/05	
KEY	NO.	PART NO.	DESCRIPSTION	SPEC.	QTY.	EFFECTIVE DATE	REMARKS
800	001	85863001002GB	BUCKET CYLINDER / LH		1	~2022.10	
800	001	85863001002SR	BUCKET CYLINDER / LH		1	2022.11~	
800	002	85863002002GB	BUCKET CYLINDER / RH		1	~2022.10	
800	002	85863002002SR	BUCKET CYLINDER / RH		1	2022.11~	
800	003	85853003002GB	BOOM CYLINDER		2	~2022.10	
800	003	85853003002SR	BOOM CYLINDER		2	2022.11~	
800	004	36313530021	ADAPTER		8		
800	005	81123006002	PIPE ASSY , BOOM UP		1		
800	006	81123007001	PIPE ASSY , BOOM DOWN		1		
800	007	81123008001	PIPE ASSY , BUCKET DUMP		1		
800	800	81123009001	PIPE ASSY , BUCKET ROLL BACK		1		
800	009	86603000702	VALVE ASSY , RELIEF		1		
800	010	86703006001	PIPE ASSY , G		1		
800	011	81123009010BR	COVER, PIPE		1	~2022.09	
800	011	81123009010SR	COVER, PIPE		1	2022.10~	
800	012	86502000060	BRACKET , B		3		
800	013	86502000070	BRACKET , C		1		
800	014	V2183608040	BOLT, HEX/SP	M8X40	9		
800	015	86003004010	HYD, HOSE 390 / 90°		1		BOOM UP LH
800	016	86403000371	HYD, HOSE 670 / 90°		1		BOOM UP RH
800	017	85403004060	HYD, HOSE 900		1		BOOM DOWN LH
800	018	86003004051	HYD, HOSE 980 / 90°		1		BOOM DOWN RH
800	019	81253009171	HYD, HOSE 780		1		ROLLBACK LH
			- NEXT -				

FIG 008 BL25RSL-QB2_SB

HYDRAULIC ASSEMBLY

P2

Year / Month



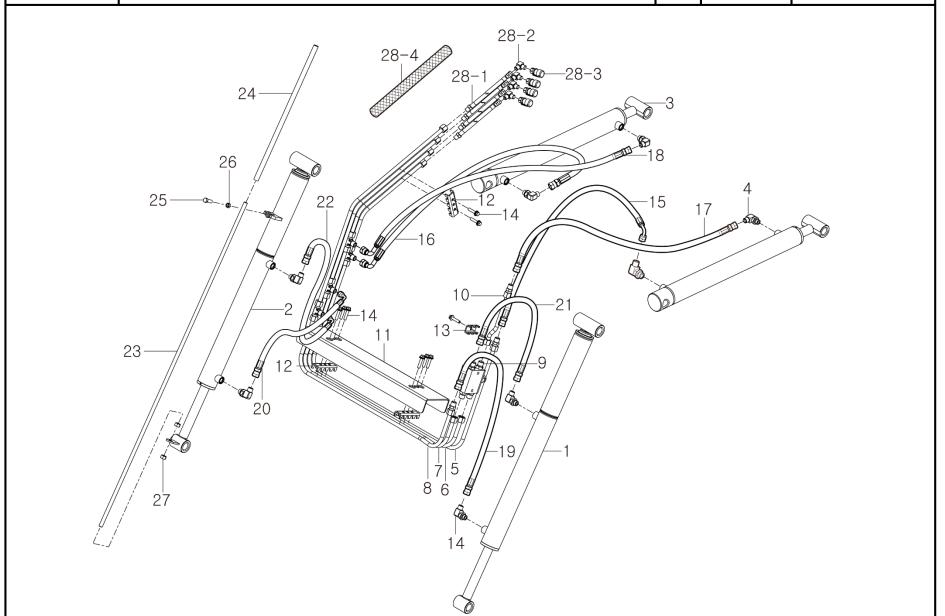


FIG	800	HYDRAL	JLIC PIPING ASSEMB	HYDRAULIC PIPING ASSEMBLY				
KEY	NO.	PART NO.	DESCRIPSTION	SPEC.	QTY.	EFFECTIVE DATE	REMARKS	
800	020	85403000370	HYD, HOSE 820 / 90°		1		ROLLBACK RH	
800	021	86503000340	HYD, HOSE 670		1		DUMP LH	
800	022	84953000720	HYD, HOSE 720 / 90°		1		DUMP RH	
800	023	86603000291	STUD , BUCKET		1			
800	024	86603000301	GUIDE , BUCKET		1			
800	025	V2013610030	BOLT, HEX	M10X30	1			
800	026	V3043600100	NUT, HEX/2	M10	1			
800	027	V3043600120	NUT, HEX/2	M12	2			
800	028	81123009900	HYD , HOSE SUB		1			
800	028-1	81123009910	HYD , HOSE 1800	PF3/8-M18	4			
800	028-2	16751850222	ELBOW, PF3/8-PT3/8		4			
800	028-3	16495301000	COUPLER	PT3/8	4			
800	028-4	86503000450	HOSE COVER	L=1000	1			

FIG 009 BL25RSL-QB2_SB

BUCKET CYLINDER

P1

Year / Month

2005 / 05



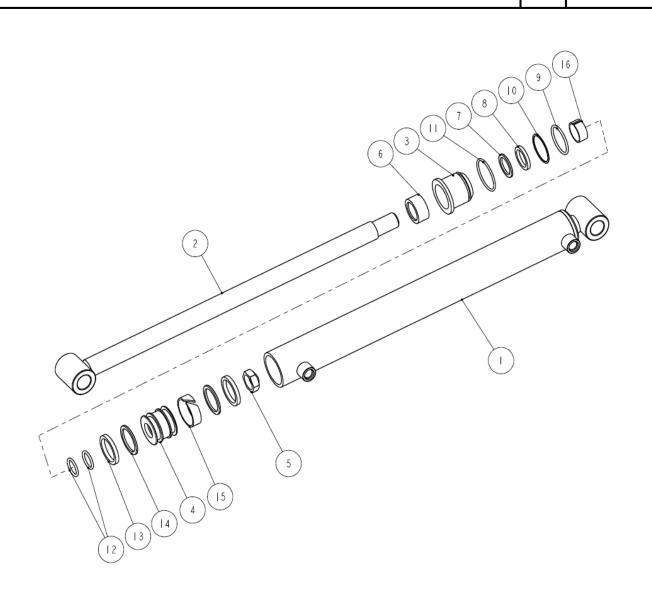


FIG	009		BUCKET CYLIND	ER	P1	Year/Month 2020/05	
KEY	NO.	PART NO.	DESCRIPSTION	SPEC.	QTY.	EFFECTIVE DATE	REMARKS
009	000A	85863001002GB	BUCKET CYLINDER LH	Ø55xØ30x380STx900CL	1	~2022.10	
009	UUUA	85863001002SR	BUCKET CYLINDER LH	Ø55xØ30x380STx900CL	1	2022.11~	
009	000B	85863002002GB	BUCKET CYLINDER RH	Ø55xØ30x380STx900CL	1	~2022.10	
009	ОООБ	85863002002SR	BUCKET CYLINDER RH	Ø55xØ30x380STx900CL	1	2022.11~	
009	001A	85863001101	CYLINDER COMP LH		1		
009	001B	85863002200	CYLINDER COMP RH		1		
009	002	85863001201	ROD COMP		1		
009	003	85403000020	ROD COVER	Ø65	1		
009	004	85403000010	PISTON	Ø55	1		
009	005	85903000030	NUT , LOCK	M22XP2.5	1		
009	006	89303038050	DUST SEAL	LBI 30x38	1		
009	007	89402003040	BACK UP RING	30x40X3	1		
009	800	89203040060	ROD SEAL	ISI 30x40	1		
009	009	V7211131050	O-RING	G50 1B	1		
009	010	89403005055	BACK UP RING	50X55x1.25	1		
009	011	V7211131055	O-RING	G55 1B	1		
009	012	V7201135024	O-RING	P24 1B	2		
009	013	89105545060	PISTON SEAL	OSI 55x45	2		
009	014	89402004555	BACK UP RING	45x55x3	2		
009	015	89505550100	WEAR RING	55X50x10	1		
009	016	89401003010	DU-BUSH	3015	1		

Year / Month FIG 010 **BOOM CYLINDER P1** BL25RSL-QB2_SB 2005 / 05

FIG	010		BOOM CYLINE	DER	P1	Year/Month 2020/05	
KEY	NO.	PART NO.	DESCRIPSTION	SPEC.	QTY.	EFFECTIVE DATE	REMARKS
010	000	85853003002GB	BOOM CYLINDER	Ø55xØ30x507STx713CL	2	~2022.10	
010	000	85853003002SR	BOOM CYLINDER	Ø55xØ30x507STx713CL	2	2022.11~	
010	001	85853003101	CYLINDER COMP		1		
010	002	85853003200	ROD COMP		1		
010	003	85403000020	ROD COVER	Ø65	1		
010	004	85403000010	PISTON	Ø55	1		
010	005	85903000030	NUT , LOCK	M22XP2.5	1		
010	006	89303038050	DUST SEAL	LBI 30x38	1		
010	007	89402003040	BACK UP RING	30x40X3	1		
010	008	89203040060	ROD SEAL	ISI 30x40	1		
010	009	V7211131050	ORING	G50 1B	1		
010	010	89403005055	BACK UP RING	50X55x1.25	1		
010	011	V7211131055	ORING	G55 1B	1		
010	012	V7201135024	ORING	P24 1B	2		
010	013	89105545060	PISTON SEAL	OSI 55x45	2		
010	014	89402004555	BACK UP RING	45x55x3	2		
010	015	89505550100	WEAR RING	55X50x10	1		
010	016	89401003010	DUBUSH	3015	1		

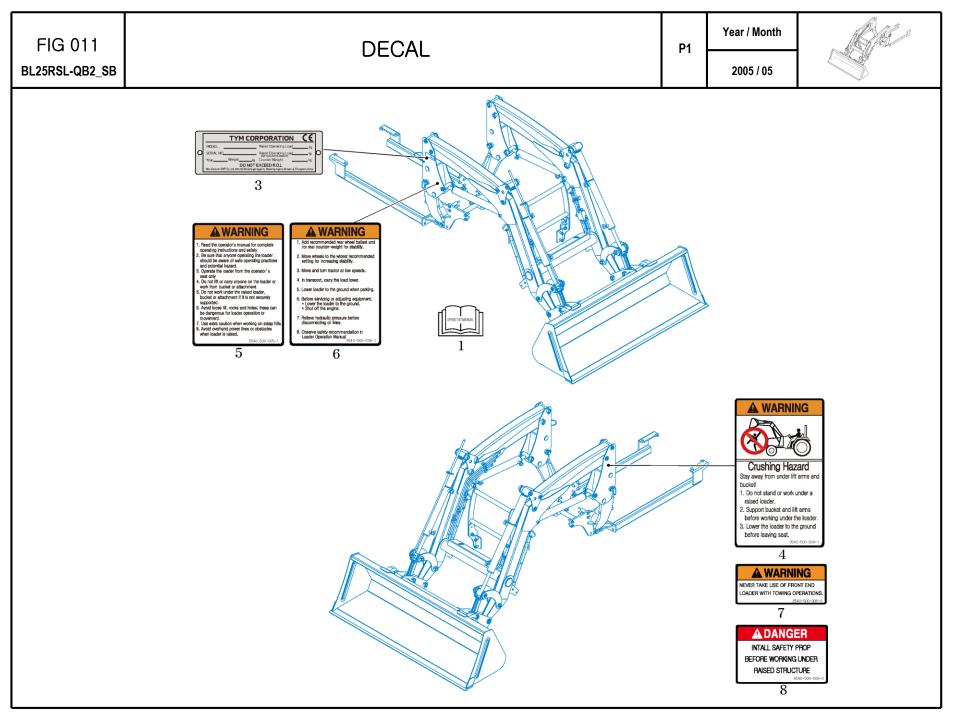


FIG 011		DECAL			P1	Year/Month 2020/05	
KEY	NO.	PART NO.	DESCRIPSTION	SPEC.	QTY.	EFFECTIVE DATE	REMARKS
011	001	81737000000	OPERATION MANUAL		1		
011	002	81135000010	LABEL, ORNAMENT(BL25)		2	~2022.09	
011	003	81655000071	PLATE, NAME		1	~2022.09	
011	003	87905000073	PLATE, NAME		1	2022.10~	
011	004	85405000041	LABEL, WARNING(CRUSH)	0.05T	1		
011	005	85405000051	LABEL, WARNING(OPERATION)	0.05T	1		
011	006	85405000061	LABEL, WARNING(NOTE)	0.05T	1		
011	007	85405000081	LABEL, WARNING(NO TOWING)	0.05T	1		
011	800	85405000090	LABEL , DANGER(SAFTY PROP)	0.05T	1		
			, , , , , , , , , , , , , , , , , , ,				
						1	
						1	

CAUTION:

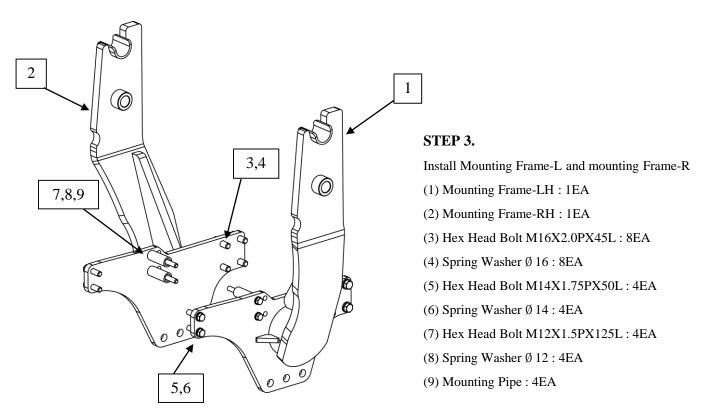
See your Loader Operator's manual for Safety Precautions and Tractor Preparations

STEP 1.

Position tractor on hard level surface.

STEP 2.

Release loader, bucket and mount kit box from pallet.



STEP 4.

Install Cross-Bar & Rear Frame

(1) Cross-Bar: 1EA

(2) Rear Frame-LH: 1EA

(3) Rear Frame-RH: 1EA

(4) Hex Head Bolt M20X2.5PX70L: 4EA

(5) Spring Washer Ø 20: 4EA

(6) Plain Washer Ø 20: 4EA

(7) Hex Head Nut M20X2.5P: 2EA

STEP 5.

Install Grill Guard

(1) Plate COMP, Grill Guard: 1EA

(2) Grill Guard COMP- LH: 1EA

(3) Grill Guard COMP-RH: 1EA

(4) Pin: 1EA

(5) Hex Head Bolt M16XP2.0X55L: 4EA

(6) Spring Washer Ø 16: 4EA

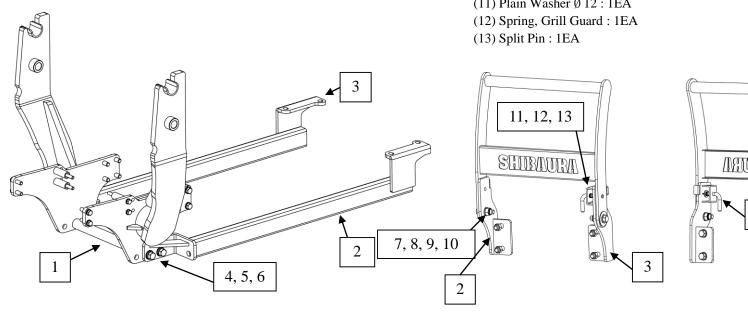
(7) Hex Head Bolt M16XP2.0X55L: 2EA

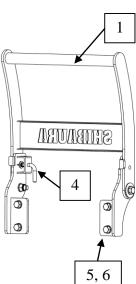
(8) U Nut M16: 2EA

(9) Washer Ø 16.3XØ 52X2T : 2EA

(10) Plain Washer Ø 16: 4EA

(11) Plain Washer Ø 12: 1EA

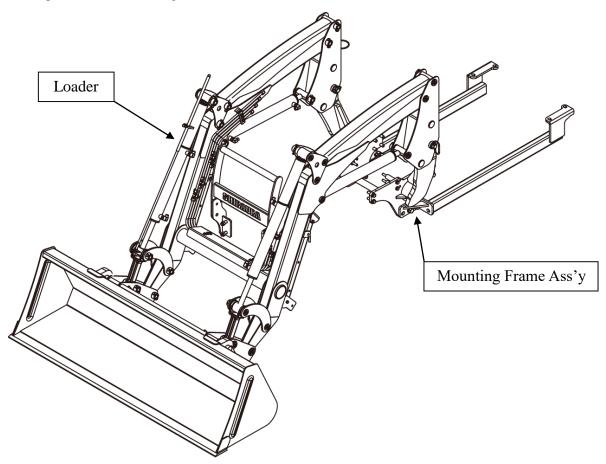


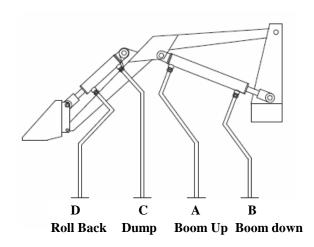


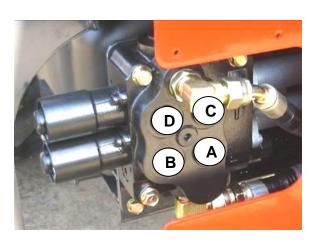
STEP 6.

Install Boom ASS'Y

Hang the groove on the pin located on Mounting Frame





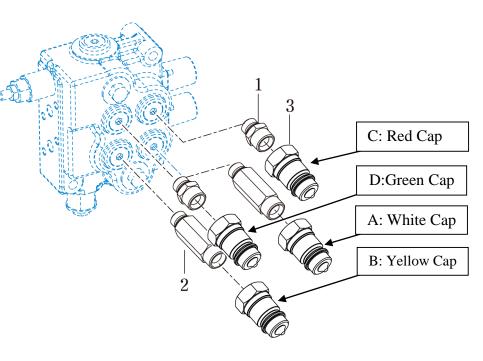


STEP 7.

Install Hydraulic Line

(1) Union PF3/8-PT3/8 (32): 2EA(2) Union PF3/8-PT3/8 (52): 2EA

(3) Nipple PT3/8: 4EA



FRONT END LOADER HISTORY CARD

D / EFF	TRONT END LOADER INSTORT CARD						
DATE	JOB CARD NO.	NATURE OF DEFECT	PARTS REPLACEMENT	W/CLAIM NO. AND DATE	REMARKS		

SERVICE RECORD

T		RVICE RECORD
DATE	TRACTOR HOURS	NATURE/TYPE OF REPAIR/SERVICE CARRIED OUT

DAILY OPERATION LOG

DATE	JOB DONE	MACHINE HOURS		FUEL CONSUMPTION	ENGINE OIL		
		START	END		TOPPED UP	REMARKS	

PART REPLACEMENT RECORD

DATE	PART DESCRIPTION	QTY	COST	DATE	PART DESCRIPTION	QTY	COST

BL25RSL-QB2_SB

OPERATOR'S MANUAL FOR FRONT END LOADER

CODE NO.

8173-700-000-0

Printed on Oct, 2022

2nd EDITION