

# WARRANTY CONDITIONS

## **Warranty Coverage :**

**Daedong-USA, Inc.**, **KIOTI** Tractor Division, herein referred to as **KIOTI**, undertakes to replace or repair any part of a **KIOTI** backhoe 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. Warranty only applies to the original purchaser.

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 **KIOTI** backhoe to the Dealer's place of business for repair.

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

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

**Warranty Provisions :**

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




1. The purchaser shall at all times in the operation of any **KIOTI** Product, use those brands and grades of lubricating oils, lubricants or fuel and spare parts officially approved by **KIOTI**.
2. The **KIOTI** backhoes 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 perform 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 **KIOTI** for the time that the parts have been used if they have been exposed to extreme wear.
3. Compensation is not paid for physical harm, deadlock, resulting damages or other losses.
4. To obtain warranty service, the Purchaser must (1) report the product defect to an authorized **KIOTI** dealer and request repair within the applicable warranty term and (2) present evidence of purchase.
5. The Warranty shall be void if the **KIOTI** backhoe has been altered or repaired outside of a **KIOTI** 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 dealership.
6. Temporary repairs or additional costs due to the work being performed after normal working hours will not be compensated.
7. The above warranty is in lieu of all other warranties on **KIOTI's** behalf and neither party assumes any other liability in connection with **KIOTI's** Products.
8. Any dispute arising between **KIOTI** and the Purchaser concerning the liability of **KIOTI** under this warranty shall be subject to the laws of the State of North Carolina.

**Right To Make Design and Product Changes:**

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

# PLEASE NOTE

Make sure all potential operators of this equipment review this manual and all safety messages contained within.

Signs		Description
	<b>CAUTION</b>	This safety 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.
	<b>WARNING</b>	This mark indicates potentially hazardous situation which, if not observed, may result in death or moderate injury.
	<b>IMPORTANT</b>	This mark indicates emphasis on notable characteristics in working procedures or information on working procedures and technology for convenient use.
	<b>NOTE</b>	This mark indicates general comments or notes.



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# 1. SAFETY PRECAUTIONS



## SAFETY

Understand that your safety and the safety of other persons is measured by how you service and operate this backhoe. Know the position and operations of all controls before you try to operate. **Make sure you check all controls in a safe area before starting.**

**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 backhoe before you begin operation.

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.

 <b>CAUTION</b>
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- **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 persons 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 backhoe 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 backhoe 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 be such that 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 serious injury, 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.

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 backhoe 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 backhoe 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 backhoe to drop, or attachment to dump, causing severe injury.

Make sure all parked backhoes on stands are on a hard level surface with all safety devices engaged to prevent backhoe from falling and being damaged or injuring someone.

When using a backhoe, be alert of bucket position at all times. Backhoe in raised position with bucket rolled back can dump material on tractor causing damage or injury to tractor and / or operator.

Always park backhoe with bucket attached to backhoe.



## **2. SAFETY DECALS**



## SAFETY DECALS

### Safety Decal Locations

 <b>IMPORTANT</b>
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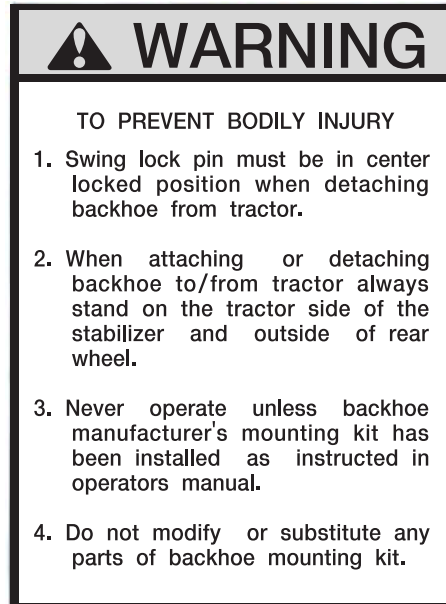
- |   |
|---|
| <ul style="list-style-type: none"><li>● <b>Warning decals are visible when getting on backhoe. Refer to the left and right hands used in this manual, It's the position of the operator when seated in the operating position of Backhoe.</b></li></ul> |
|---|

### Care of Safety Decals.

1. Keep safety decals clean and free of obstructing material.
2. Clean safety decals with soap and water and dry with a soft cloth.
3. Replace damaged or missing safety decals with new decals from your Kioti Dealer.
4. 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.
5. Mount new safety decals by applying on a clean dry surface and pressing air bubbles to outside edges.

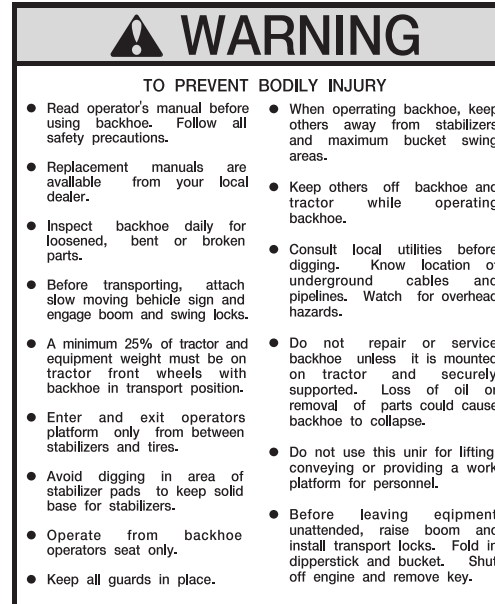
(1) Part No : BH35-0101

Location : Mainframe



(2) Part No : BH35-0102

Location : Both of Mainframe sides



(3) Part No : BH35-0103

Location : Both Leg Cylinders



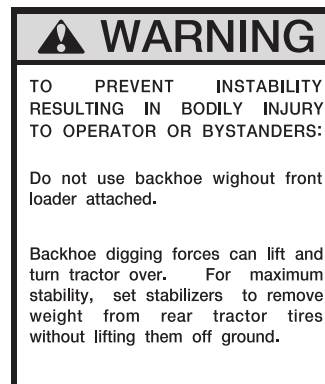
(4) Part No : BH35-0104

Location : Both of Mainframe sides



(5) Part No : BH35-0105

Location : Main Valve Cover

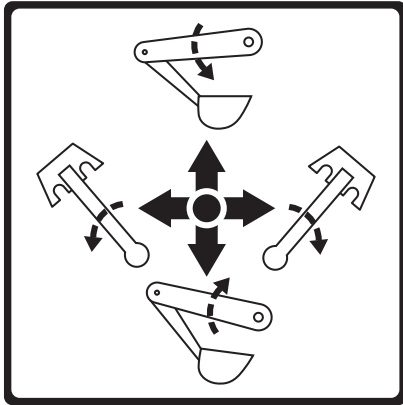


(6) Part No : BH35-0106

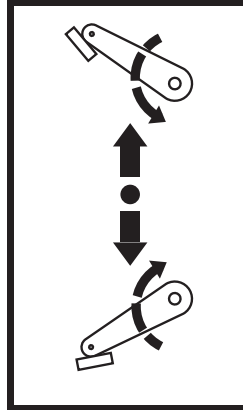
Location : Right Leg Guard



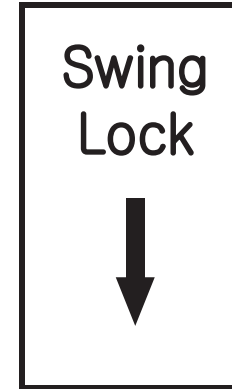
(7) Part No : BH35-0107  
Location : Left Side Valve Lever



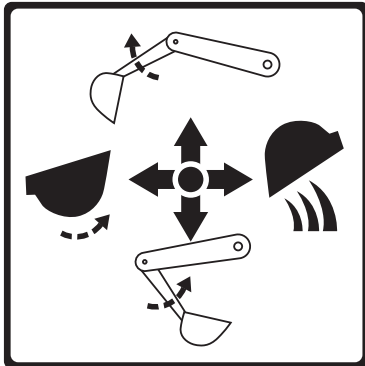
(9) Part No : BH35-0109  
Location : Side of Left Inner Lever



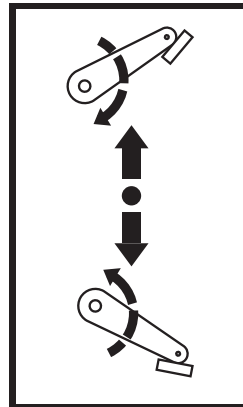
(11) Part No : BH35-0111  
Location : Top of Swing Frame forward Side



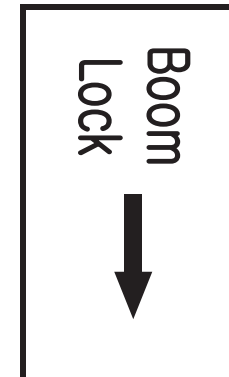
(8) Part No : BH35-0108  
Location : Right Side Valve Lever



(10) Part No : BH35-0110  
Location : Side of Right Inner Lever



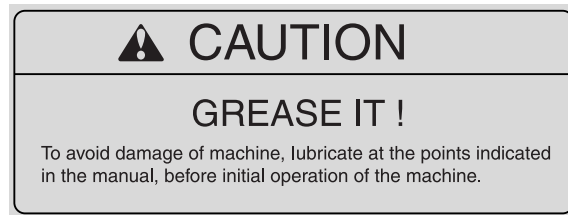
(12) Part No : BH35-0112  
Location : Beside of Locking Hole at the Boom Mainframe





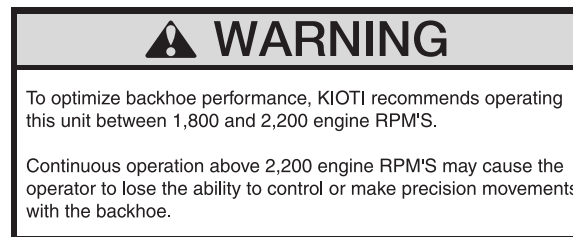
(13) Part No : BH35-0117

Location : Main valve cover



(14) Part No : BH35-0118

Location : Side of Right Inner Lever



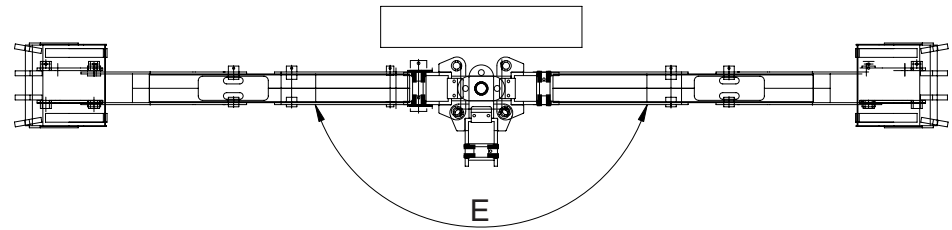
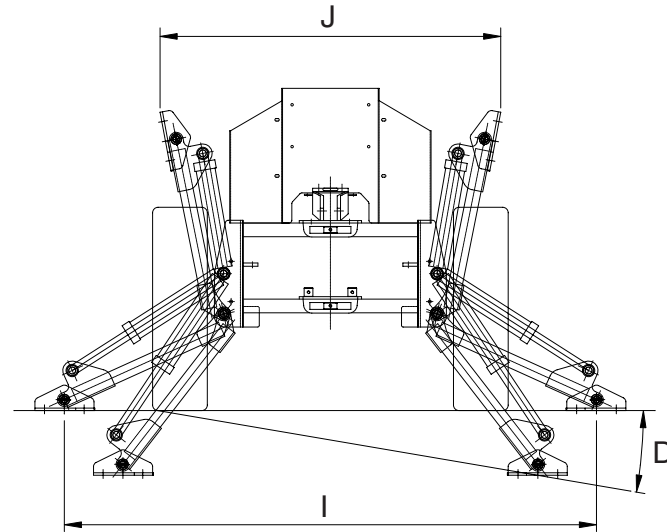
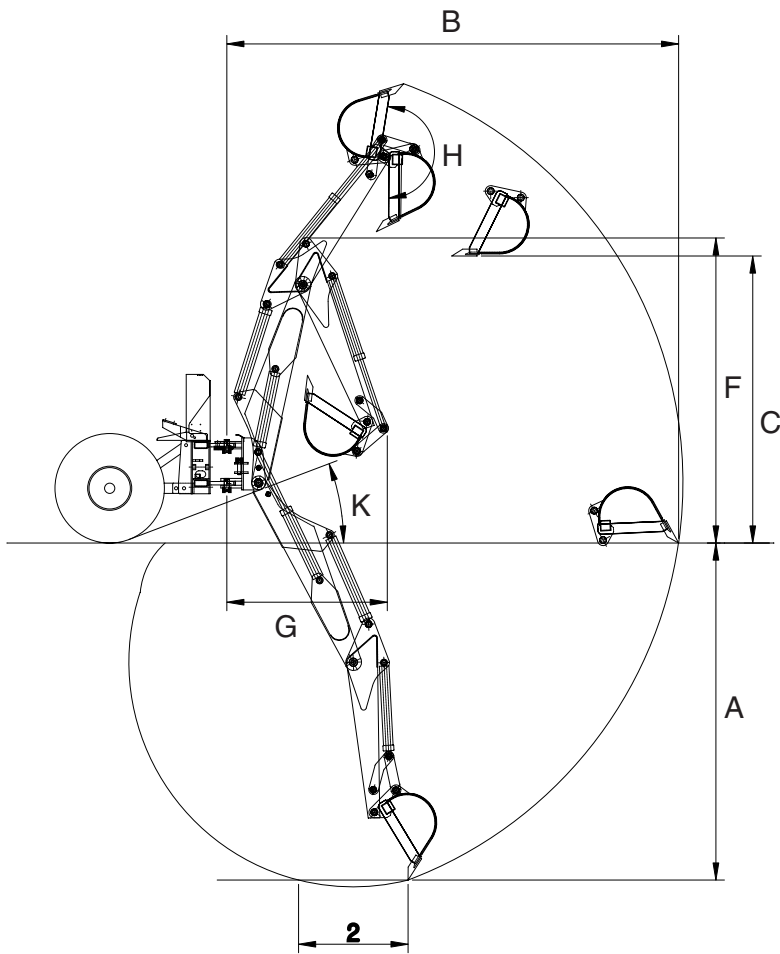


## **3. BACKHOE SPECIFICATIONS**



# BACKHOE SPECIFICATIONS

Specifications and design are subject to change without prior notice.



KBDO301A

Backhoe Model	KB2375
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A	Digging Depth(two foot flat bottom)	2,280 mm	89.8 in.
B	Reach from center line of Swing Pivot	2,950 mm	116.1 in.
C	Loading Height(bucket at 60 degree)	1,840 mm	72.4 in.
D	Maximum Leveling Angle	10 degree	←
E	Swing Arc	180 degree	←
F	Transport Height(maximum)	2,030 mm	79.9 in.
G	Transport Overhang	1,160 mm	45.7 in.
H	Bucket Rotation	180 degree	←
I	Stabilizer Spread(down position)	1,950 mm	76.8 in.
J	Stabilizer Spread(up position)	1,250 mm	49.2 in.
K	Angle of Departure	21 degree	←
	Shipping Weight - Backhoe(without bucket)	390 kg	855 lbs
	Bucket Digging Force	1,215 kg	2,675 lbs
	Dipperstick Digging Force	955 kg	2,105 lbs
	Operating Pressure	170 bar	2,000 psi

**CYLINDER**

Cylinder	Bore DIA	Retracted Length	Stroke	Rod DIA
Boom	ø70(2.756")	620(24.409")	425(16.733")	ø40(1.575")
Bucket	ø60(2.363")	615(24.213")	427(16.811")	ø35(1.378")
Dipperstick	ø60(2.363")	615(24.213")	427(16.811")	ø35(1.378")
Swing	ø60(2.363")	138(5.433")	228(8.976")	ø35(1.378")
Stabilizer	ø60(2.363")	446(17.559")	262(10.315")	ø35(1.378")

**BUCKET**

Bucket	Teeth Q'ty	Struck Capacity	Heaped Capacity	Shipping Weight
9" Bucket	3	0.73 cu. ft.	0.87 cu. ft.	46 lbs.
12" Bucket	3	1.01 cu. ft.	1.24 cu. ft.	56 lbs
16" Bucket	3	1.38 cu. ft.	1.76 cu. ft.	64 lbs
18" Bucket	4	1.56 cu. ft.	2.02 cu. ft.	70 lbs
24" Bucket	5	2.11 cu. ft.	2.82 cu. ft.	94 lbs
36" Bucket	6	2.78 cu. ft.	4.00 cu. ft.	114 lbs

Specifications may vary depending on tractor model, tire size and bucket used.

## 4. INTRODUCTION



## INTRODUCTION

The purpose of this manual is to assist you in maintaining and operating your KIOTI backhoe. 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.

### **IMPORTANT**

- **Illustrations used in this manual may not show all safety equipment that is recommended to ensure safe operation of tractor and backhoe. 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 terms and conditions of the warranty on this machine are specified in the back 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 is located on the right side of backhoe mainframe. The serial number should be recorded on the Delivery and Registration form and also below for your reference.

#### **KIOTI Backhoe KB2375 Serial Number Information**

**Date Purchased** \_\_\_\_\_

**Backhoe Serial Number** \_\_\_\_\_

**Subframe Serial Number** \_\_\_\_\_

**Dealer Name and Telephone Number** \_\_\_\_\_



## **5. TRACTOR PREPARATION**



## TRACTOR PREPARATION

 **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.
- Certain specific conditions may not permit safe use of backhoe at backhoe rating or may require more careful restricted operation at the rated load.

### 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 backhoe 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.

 **CAUTION**

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

### Tire Inflation

Front tires must be maintained at the maximum recommended inflation to maintain normal tire profile with the added weight of backhoe/material.

Rear tires must be maintained at equal pressure within the recommended tire inflation range. Unequal rear tire inflation can prevent backhoe attachment from contacting the ground across its full width.

### Wheel Tread Settings

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

## **6. BACKHOE OPERATION**



## BACKHOE OPERATION

### CAUTION

- **The tractor/backhoe should only be operated with all safety equipment properly installed. Keep assistants or bystanders a safe distance from the equipment operating area.**

### Precautionary Notes

- Check below items before operating for your safety.
- Read and understand this manual to avoid accidents.
- Check the hydraulic fitting lines to be correct and set tightly.
- Maintain and repair (if it is needed) the parts or assemblies, check bolts and pins to be sure they are positioned tightly.
- Check tractor with the tractor operator's manual so that it will be prepared for operating.
- Warm up and operate the tractor and backhoe carefully. Purge any air in the hydraulic lines and cylinders by fully cycling all cylinders several times.
- Check hydraulic level in the tank. It should be full (Refer to the Tractor Operator's Manual).
- Do not operate the hydraulics when not seated in the backhoe operator's seat.
- Keep all assistants out of area of the operation.
- Do not operate rapidly.
- Do not allow riders other than the operator to be on the tractor while operating.

### IMPORTANT

- **Use tractor engine speed that your experience permits. At first set PTO RPM of the tractor to slow.**
- **Do not use the boom, dipperstick, swing and stabilizers to lift, push or pull objects. Use only to maneuver and operate the bucket.**
- **Practice quickly turning off the engine or stopping the backhoe immediately in case of an emergency situation.**
- **Do not operate while the rear tractor wheels are off the ground by stabilizer. It is dangerous to operate the backhoe while rear wheels are off the ground.**
- **Position vehicle so that the backhoe is as near to the pile as possible and in such a direction as to minimize the amount of tractor turning required to dump.**
- **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.
5. Don't hurry the learning process or take the unit for granted. Ease into it and become familiar with your new backhoe 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 backhoe or tractor or even worse, personal injury.**
- **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 backhoe if the fittings are leaking or if the hoses are damaged. A sudden line burst would cause the boom, dipperstick or bucket to drop suddenly, causing damage to the tractor or backhoe or injury to personnel.**

**Initial Backhoe Operation**

Before operating the backhoe, fully raise and lower the boom, arm, swing and stabilizers two or three times. Then raise the bucket above the ground and cycle the bucket cylinders three times. Lower 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.**

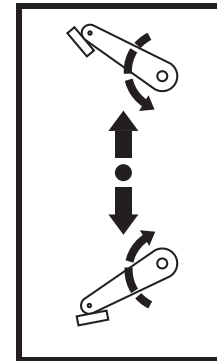
Always keep cylinders in a retracted position when the backhoe is not in use to guard against rust and contamination which may cause damage to the cylinder rods or hydraulic system. Also, lock the swing and boom while tractor is moving and storing for an extended period of time.

### Cold Weather Operation

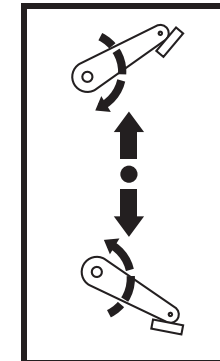
For smooth operation in cold weather, let the tractor warm up. Slowly cycle all of the cylinders several times to warm the oil in the hydraulic system. The backhoe may operate erratically until the hydraulic oil has warmed to operating temperatures.

#### CAUTION

- Operate controls only when seated in the operator's seat.

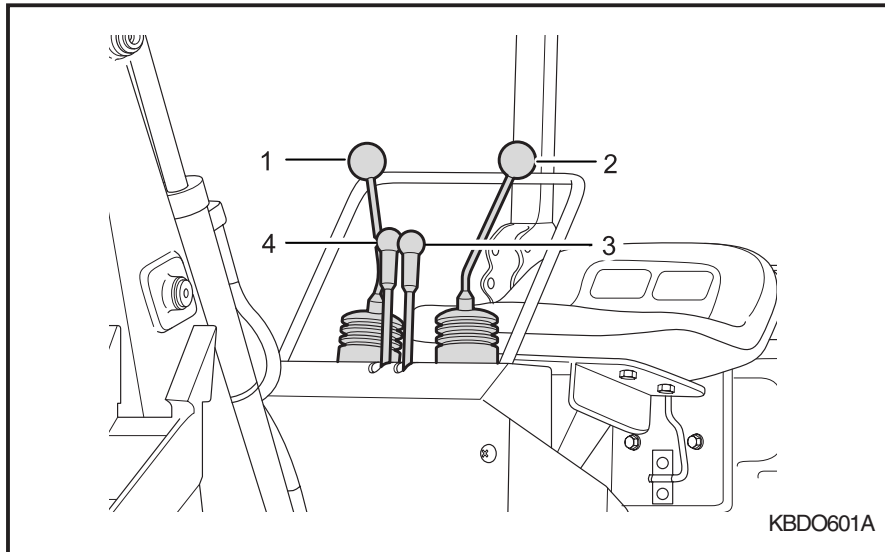


Decal for  
Left Stabilizer



Decal for  
Right Stabilizer

### Left and Right stabilizer controls



(1) *Bucket/Crowd*  
(3) *Left Stabilizer*

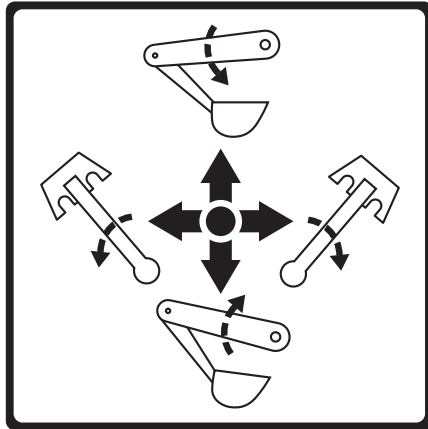
(2) *Boom/Swing*  
(4) *Right Stabilizer*

Push the left hand inner control lever, left stabilizer lowers. And pull up the lever, left stabilizer raises.

Push the right hand inner control lever, right stabilizer lowers. And pull up the lever, right stabilizer raises.

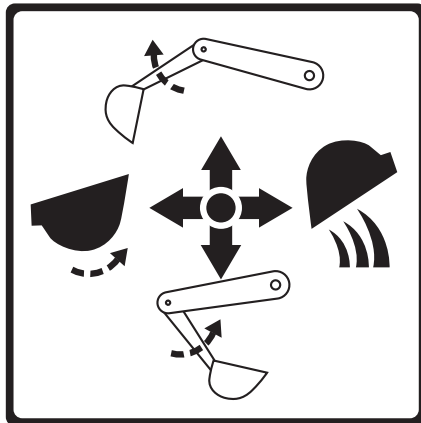
Do not dig near the stabilizers to avoid possible accident.

Do not lift the tractor rear wheels by stabilizers. Also, be sure the stabilizers are seated on hard ground to support. The backhoe/tractor.

**Boom and swing controls**

Push the left hand outer control lever, boom moves down, and pull back the lever, boom moves up. Also, pushing the lever fully forward into the detent position, allows the boom to float. In the float position, the boom can drift up or down without pressure.

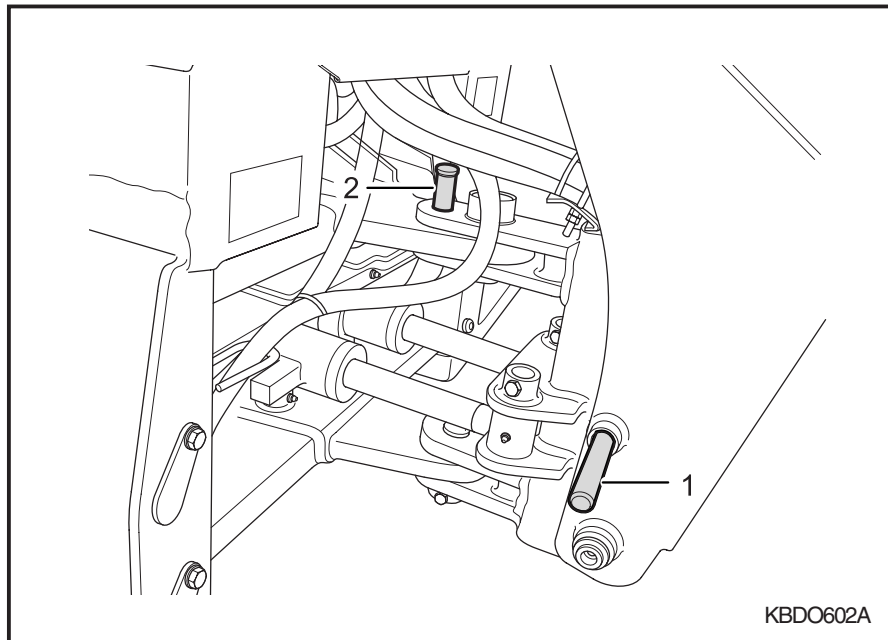
Move the left hand outer control lever to the left, boom swings to the left. Move lever right, backhoe boom swing moves to the right.

**Bucket and swing controls**

Push the right hand outer control lever, arm(dipperstick) moves away from operator, and pull back the lever, arm(dipperstick) moves toward the operator.

Move the right hand outer control lever to the left, bucket curls in. Move lever right, bucket extends out from operator.

**These two levers ( Boom and swing control lever, Bucket and crowd control lever ) provide four simultaneous operations. Both experience and practice are needed to eliminate excess motion and increase operating efficiency.**



(1) Boom Lock

(2) Swing Lock

### Swing Lock and Boom Lock

When transporting or dismounting backhoe, you must lock the backhoe's swing and boom.

Position boom straight back and drop pin through holes in swing frame and boom. When not in use, store pin in hole provided on swing frame and boom.

Observe the following safety warnings when working with your new backhoe/tractor.

#### **! CAUTION**

- When using a backhoe, be aware of bucket and boom location at all times. When raising A arm(dipperstick) with bucket rolled forward, material can spill onto non target area causing injury to assistant or damage other objects.

#### **! WARNING**

- *Do not dig near stabilizers. Ground under stabilizers could collapse. Make all movements slow and gradual when practicing operation.*

#### **! CAUTION**

- Operate from backhoe operators seat only. Pay attention, be ready to stop, immediately in case of an emergency.
- To help prevent roll-over, adjust the rear wheels to their widest setting to maximize stability. Refer to your Tractor Operator's Manual for recommendations.



## **7. BACKHOE MOUNTING**



## BACKHOE MOUNTING

### ⚠ CAUTION

- Backhoe should be mounted on the proper subframe assembly.
- Never store backhoe without bucket attached to the backhoe.

**STEP 1.** Attach the loader midmount and mounting bracket to the tractor by fitting the bolts and nuts.

**STEP 2.** Back tractor slowly toward the backhoe parallel to subframe assembly, until the couplers on the backhoe hoses are able to connect with the hose kit hydraulic couplers or tractor auxiliary couplers located rear of the tractor. Then, connect the couplers.

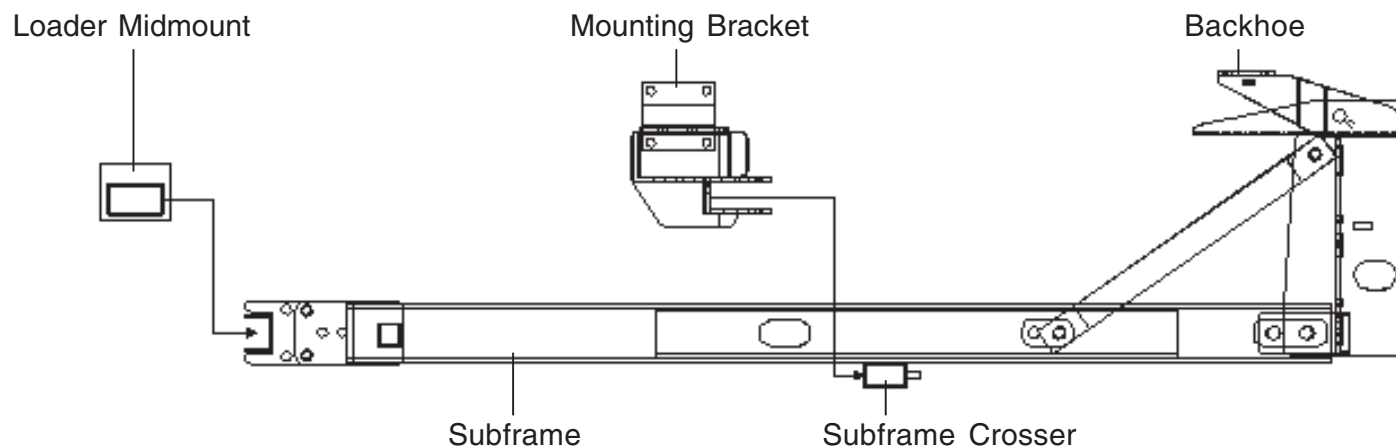
**STEP 3.** Mount the subframe and subframe crosser horizontally on the loader midmount and mounting bracket by using the backhoe control lever to bring these to the height.

**STEP 4.** Set the parking brake of the tractor, Make sure the PTO switch is in the off position.

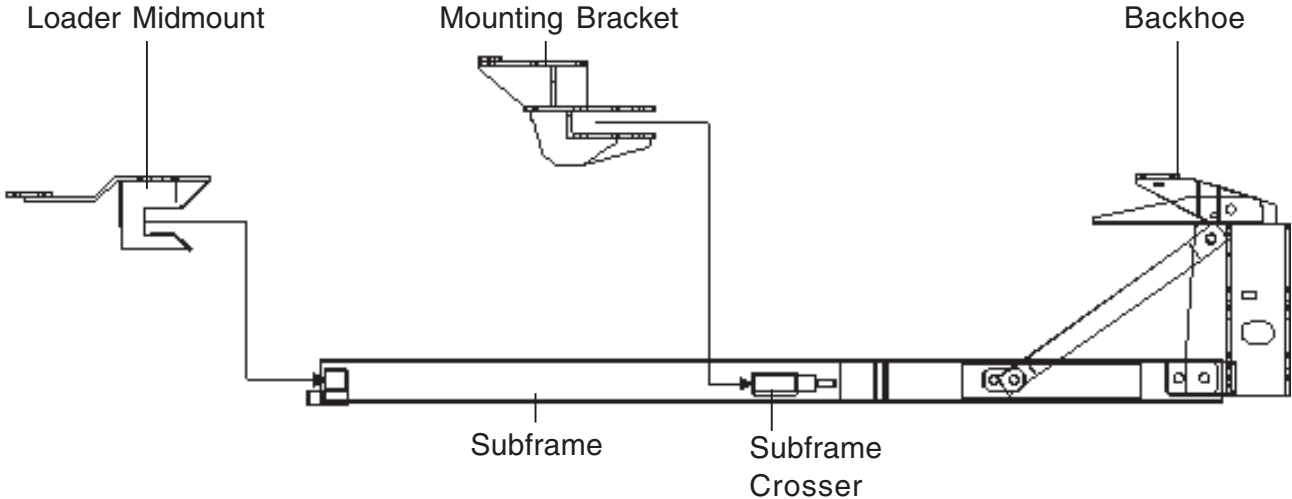
### ⚠ CAUTION

- This is the Backhoe's Operator's manual for Safety Precautions and Tractor Preparations.

<LK3054>

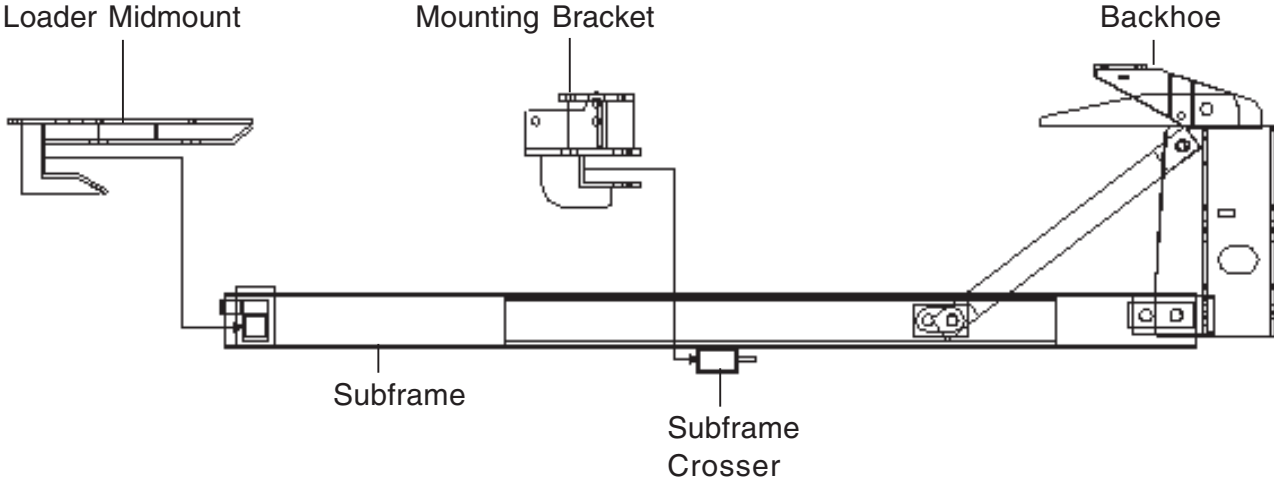


<DK35/40>



KBDO702A

<DK45/50>



KBDO703A

- STEP 5.** Move the tractor to put the subframe front side into the loader midmount slowly. Set the subframe crosser parallel to the mounting bracket by using the backhoe control levers to lower the stabilizers and boom to raise the subframe.
- STEP 6.** Release the parking brake of tractor, move the tractor rearward very carefully until the subframe is fully engaged in both mounting devices on the tractor.
- STEP 7.** Install the Mounting Bracket Pins into the holes. Raise the boom and stabilizers from the ground.

## **8. BACKHOE REMOVAL**



## BACKHOE REMOVAL

### CAUTION

- Move the backhoe to flat, firm and wide place to remove the equipment.
- Do not allow to be removed without bucket and stabilizers. Also, Dump the remaining material from the bucket to empty.

### WARNING

- *Use other lifting equipment to remove when the backhoe has damage.*

- STEP 1.** Move the tractor to backhoe storage place.
- STEP 2.** Use the inner two levers to lower the stabilizers until they contact to the ground. Use the boom and dipperstick control lever to raise the boom & dipperstick completely
- STEP 3.** Center the boom and then lock the swing with lock pin.
- STEP 4.** Using the control levers, position the dipperstick vertically, curl the bucket until its bottom is level with the ground, and lower the boom until bottom of the bucket rests on the ground.
- STEP 5.** Remove pins that secure the backhoe subframe into the mounting brackets on the tractor.
- STEP 6.** Using both the stabilizer and boom controls, set the backhoe subframe horizontally to relieve the weight of the backhoe from the mounting brackets of the tractor.

**STEP 7.** Move the tractor forward slowly until the backhoe subframe disengages from the mounting brackets.

**STEP 8.** Lower the backhoe mainframe to the ground by raising stabilizers and boom. Use a wood pallet or block if necessary.

**STEP 9.** Turn off the tractor engine. Relieve hydraulic pressure by actuating all the control levers in each direction, then disconnect the backhoe hose couplers from the tractor hydraulic couplers.

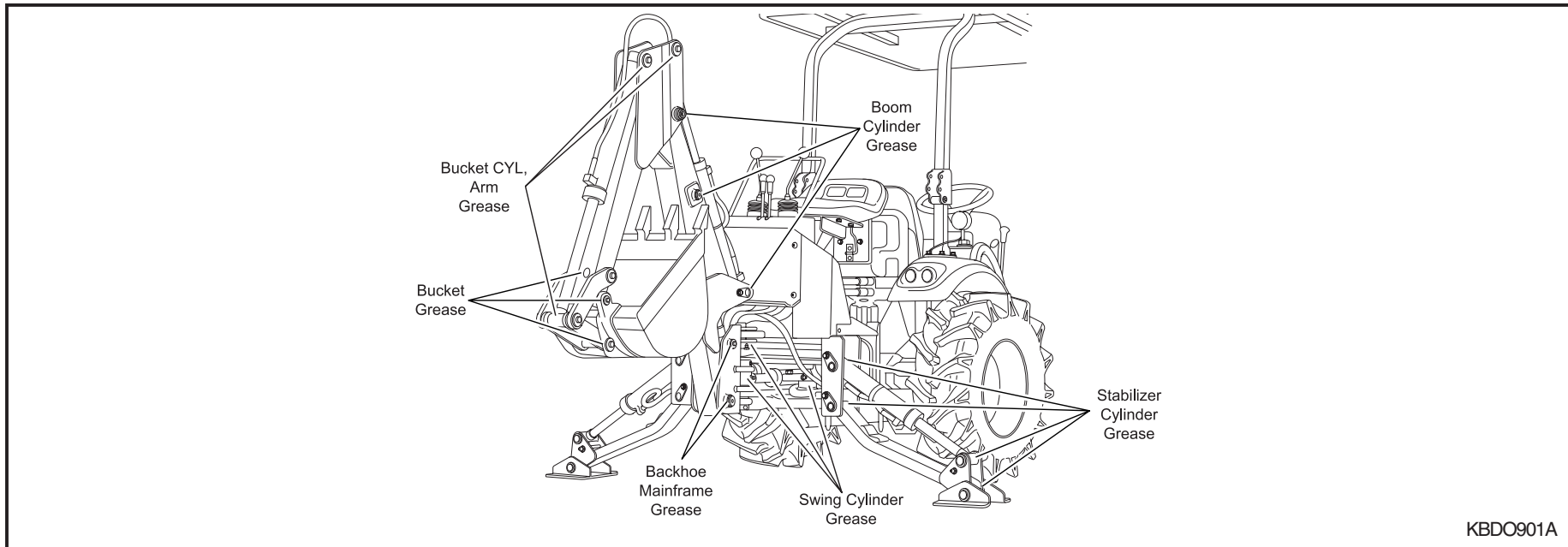
### CAUTION

- Remove the backhoe on firm level ground. Also, Do not allow the other person in the area.
- Be careful to avoid injury during removal of the backhoe.
- The hydraulic oil is dangerous for skin or eyes. Wash the skin and seek medical service if it is necessary.

## **9. LUBRICATION AND MAINTENANCE**



## 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
Backhoe Pivot Points	Lubricate	Daily/10 hours
Backhoe Hydraulic Lines, Hoses, Connections	Check for leaks, wear	Daily/10 hours
Boom, Arm, Swing and Bucket cylinder rod packings	Check for seepage, service as needed	Daily/10 hours
Pivot pin bolts and dust covers	Check, replace if missing	Daily/10 hours
Friction of All pins	Check, replace if necessary	Daily/10 hours
Backhoe mount hardware	Check visually	Daily/10 hours
Bolts and Nut release	Re-torque	Every 25 hours



**⚠ CAUTION**

- Do not perform service or maintenance Operations with backhoe raised off the ground. For additional access to tractor components remove backhoe.

**⊕ IMPORTANT**

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

**⚠ 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 backhoe if the fittings are leaking or if the hoses are damaged. A sudden line burst could cause the boom, dipperstick or bucket to drop suddenly, causing damage to the tractor or backhoe or injury to personnel.
- Operate the backhoe from the operator seat only.
- Do not stand or walk under a raised backhoe. Accidental movement of control lever or leak in hydraulic system could cause boom or dipperstick 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 backhoe should be on the ground and bucket fully retracted (all cylinders in retracted position).
- Grease all backhoe pivot points daily (or every day 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 backhoe/material. Unequal rear tire inflation can result in bucket not being level to the ground.



## 10. TROUBLESHOOTING



## TROUBLESHOOTING

This Troubleshooting Chart is provided for reference to possible backhoe 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
<b>Swing, Boom, dipperstick and Bucket cylinders Not operating properly</b>	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.
	Backhoe control valve or tractor main relief valve stuck open.	Check system pressure. Repair or replace relief valve. Refer to the Tractor Operator's Manual.
	Low system pressure supplied from hydraulic pump.	Check system pressure. Repair or replace pump.
	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) if necessary.
	Hydraulic hose or tubeline blockage.	Check for evidence of damage to hoses or tubelines 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. Disassemble valve if necessary.

Problem	Possible Cause	Correction
<b>Cylinders operate in wrong direction relative to control valve lever position.</b>	Hydraulic hoses connected incorrectly.	Correct hydraulic hose connections.
<b>Slow or erratic movement of Cylinders (Noisy operation of cylinders)</b>	Low hydraulic fluid level.	Check and replenish hydraulic fluid.
	Cold hydraulic fluid.	Allow hydraulic system to warm up to operating temperature.
	Hydraulic Oil viscosity too heavy or Incorrect oil.	Check oil number and viscosity, Refill correct hydraulic oil.
	Engine R.P.M. too slow(hydraulic pump R.P.M. too slow).	Increase engine speed to obtain satisfactory backhoe operation.
	Excessive weight in bucket. Material weight exceeds maximum specified backhoe capacity.	Reduce material load. (Digging 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".
	Quick disconnect coupler restriction or coupler "Flow checks"	Check coupler connections. Repair or replace.
	Hydraulic hose or tubeline restriction (hoses/tubeline) kinked or pinched.	Check hoses and tubelines for evidence of restriction.
	Boom, Dipperstick or Bucket cylinder piston assembly leakage.	Check cylinders for leakage. Repair as needed.

Problem	Possible Cause	Correction
<b>Slow or erratic movement of Cylinders (Noisy operation of cylinders)</b>	Relief valve erratic or set below specifications.	Check and reset relief valve. Setting as needed.
	Control valve leaking internally. (hypassing fluid within valve).	Replace control valve and recheck operation.
<b>Inadequate lifting capacity</b>	Engine R.P.M. too slow.	Increase engine R.P.M.
	Excessive load. Material loading exceeds specified backhoe capacity.	Reduce Load.
	Relief valve setting below specifications.	Check and reset relief valve setting as needed.
	Bucket, Boom and Dipperstick cylinder piston assembly leakage.	Check cylinders for leakge. Repair as needed.
	Control valve leaking internally	Replace control valve and recheck operation.
	Hydraulic pump defective.	Refer to "Hydraulic Pump Capacity Inadequate".
<b>Aeration of Hydraulic Fluid (Generally indicated by foamy apperance of fluid).</b>	Low hydraulic fluid level.	Check and refill hydraulic system to proper level.
	Air leaking into suction side of hydraulic pump.	Check for loose or defective connections between reservoir and hydraulic pump.
	Hydraulic fluid foaming due to improper hydraulic oil usage.	Refer to Tractor Operator's Manual and replace hydraulic oil using recommended hydraulic oil.

Problem	Possible Cause	Correction
<b>System relief valve squeals.</b>	Cold Hydraulic Fluid.	A low hydraulic fluid to warm up to operating temperature.
	Hydraulic Oil viscosity too heavy or Incorrect oil.	Check oil number and viscosity, Refill correct hydraulic oil.
	Excessive load in bucket. Loading exceeds specified backhoe capacity.	Reduce load.
	Relief valve setting below specifications.	Check and reset valve setting as needed.
	Hydraulic hose, tubeline or quick disconnect coupler restriction.	Check for evidence of restriction in hydraulic oil flow. Repair or replace defective components.
<b>Backhoe drops with control valve spool in "centered" position (no external oil leakage evident.)</b> <b>Note: A gradual drop over an extended period of time is a normal condition.</b>	Cylinder piston assembly leakage.	Check cylinders for leakage.
	Control valve internal leakage.	Replace control valve and recheck.
<b>Control valve spool(s) will not return to centered position.</b>	Control lever linkage binding.	Determine origin of binding and repair.
	Control valve spool centering is broken.	Replace centering spring.
	Control valve spool binding in valve body spool bore.	Disassemble valve for inspection and repair.

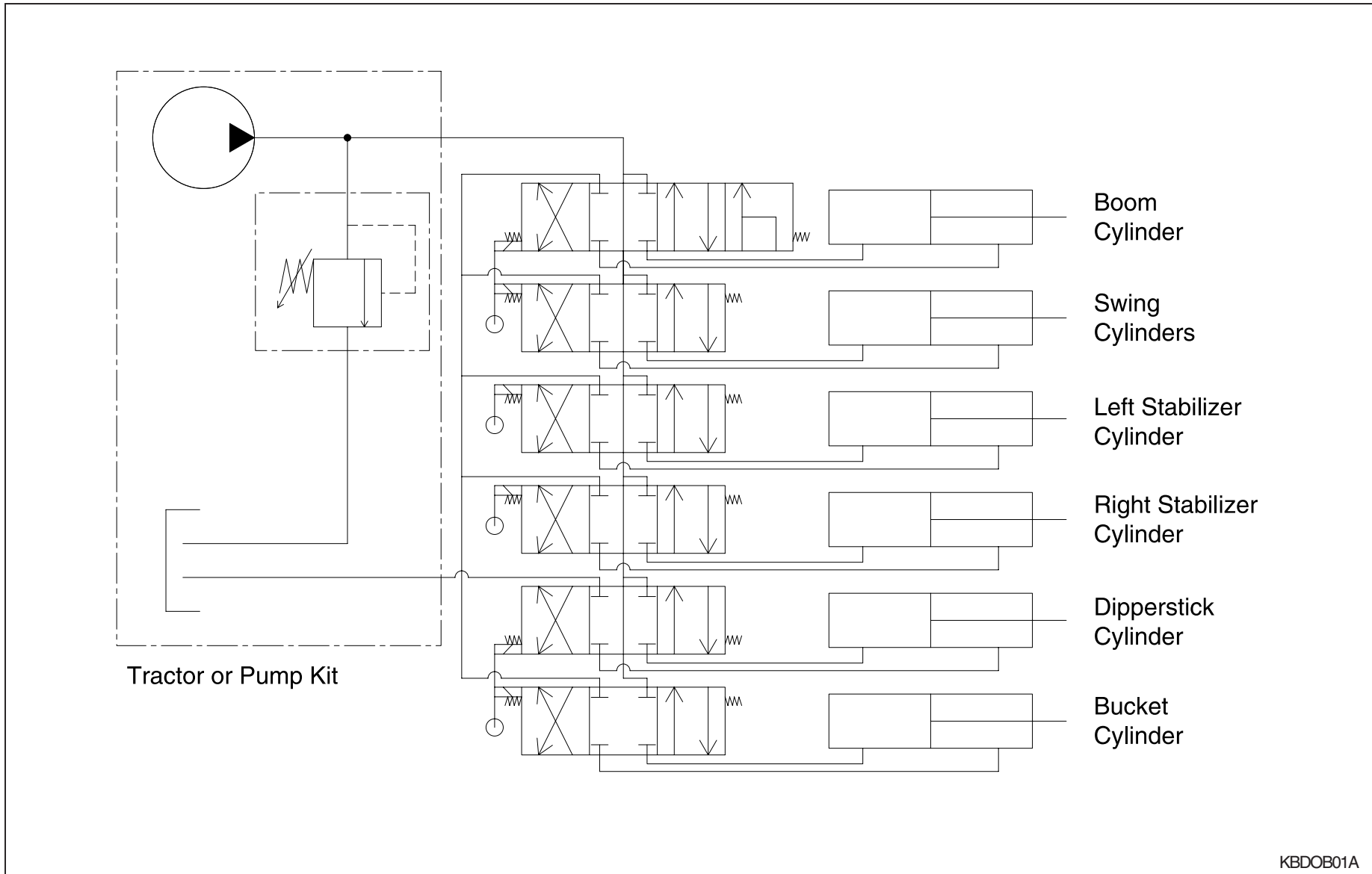
<b>Problem</b>	<b>Possible Cause</b>	<b>Correction</b>
<b>External hydraulic fluid leakage.</b>	Loose hydraulic connection.	Tighten loose connections.
	Defective hydraulic hose, tubeline, adapter fitting or adapter fitting o-ring.	Check for origin of oil leak and replace defective part.
	Control valve 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.
<b>Hydraulic pump capacity inadequate.</b>	Cold hydraulic fluid.	Allow hydraulic fluid to warm up to operating temperature.
	Engine R.P.M. too slow.	Increase engine R.P.M.
	Low hydraulic fluid supply.	Refer to Tractor Operator's Manual for service recommendations.
	Hydraulic hose restriction.	Check for evidence of restriction in hydraulic hoses.
	Hydraulic pump defective.	Refer to Tractor Operator's Manual for recommended service procedures. Replace hydraulic pump if determined to be defective.
<b>Cylinder rod bend when cylinders extended.</b>	Excessive shock load on cylinders during transport.	Replace defective parts. Review and observe proper and safe operational practices.



# 11. HYDRAULIC SYSTEM SCHEMATIC










# HYDRAULIC SYSTEM SCHEMATIC AUXILIARY HYDRAULIC VALVE PACKAGE



## **12. TORQUE TIGHTENING CHARTS**






## TORQUE TIGHTENING CHART 1

SAE FASTENER TORQUE CHART												
<b>Note :</b> Use these torques, unless special torques are specified. Values are for UNC and UNF thread fasteners, plated or unplated as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite, molydisulphide or other extreme pressure lubricant is used.												
SAE Grade No.	2				5				8*			
Bolt head identification (see note 1)					  				  			
Bolt Size	LB		FT		Nm		LB		FT		Nm	
	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	87	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 bolts.

## TORQUE TIGHTENING CHART 2

METRIC FASTENER (ISO) TORQUE CHART												
<b>Note :</b> Use these torques, unless special torques are specified. Values are for course thread fasteners, plated or unplated 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)												
Bolt Size	Nm		LB	FT	Nm		LB	FT	Nm		LB	FT
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
M4	3	4	2	3	4	5	3	4	Because of the low ductility of these fasteners, the torque range is to be determined individually for each application. As a general rule, the torque ranges specified for grade 10.9 fasteners can be used satisfactorily on 12.9 fasteners.  * M14 is not a preferred size.			
M5	6.5	8	5	6	9.5	11	7	8				
M6	10.5	12	8	9	15	17.5	11	13				
M8	26	31	19	23	37	43	27	32				
M10	52	61	38	45	73	87	54	64				
M12	90	107	66	79	125	150	93	112				
*M14	144	172	106	127	200	245	149	179				
M16	217	271	160	200	310	380	230	280				
M20	434	515	320	380	610	730	450	540				
M24	675	815	500	600	1050	1275	780	940				
M30	1250	1500	920	1100	2000	2400	1470	1770				
M36	2175	2600	1600	1950	3500	4200	2580	3090				

**Note 1:** Bolt head identification marks as per grade. Manufacturing marks will vary. \*Thick nuts must be used with Grade 8 bolts.



## 13. PART ILLUSTRATIONS



## GENERAL INFORMATION

### Illustrations

All parts are illustrated in "exploded views" which show the individual parts in their normal relationship to each other. Reference numbers are used in the illustrations. These numbers correspond to those in the "Reference 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.

### Parts 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.




### Instructions

1. GROUP NAME  
: Detail classification name for parts.
2. SECTION NAME  
: Classification name for parts.
3. COMPONENTS  
: The components of an assembly are identified by a bracket.
4. NO.  
: Reference numbers are assigned to parts in the figure.



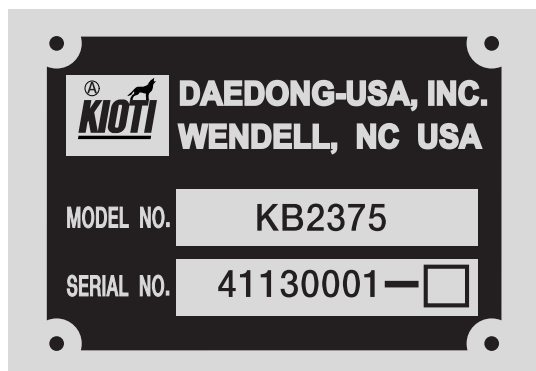
**Interchangeability**

: Indicates the interchangeability of parts due to design change.

	<p>Indicates that a new part can be used instead of an old part when you order this part, please order new part.</p>
	<p>Indicates that either parts can be used.</p>
 <p>~4265-99999 5265-00001~</p>	<p>Indicates that a part has a serial number break. When you order this part, please order a part according to the serial number of the Loader.</p>

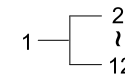
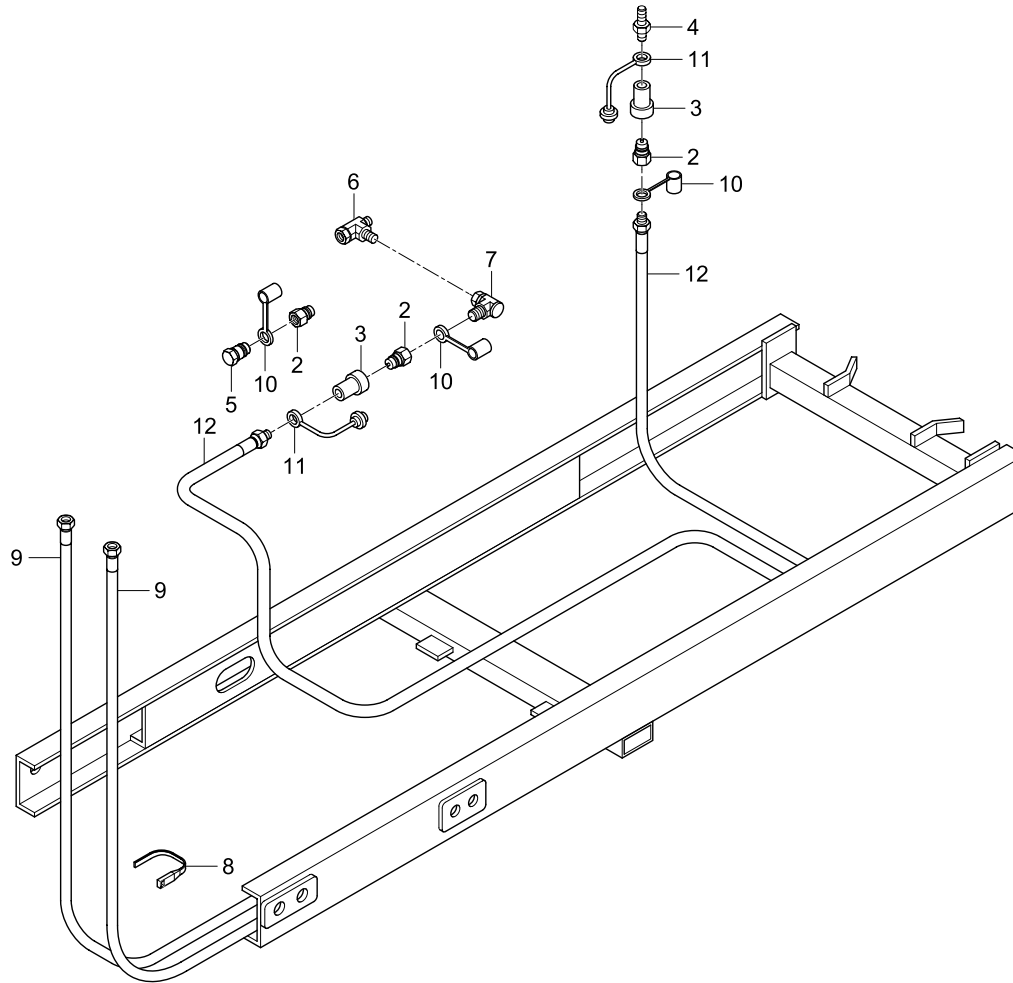
**NOTE**

- The Hydraulic Control valve installed in this Backhoe is stipulated on the Name Plate Sticker.



N : NIMCO CV-556  
 NM : NIMCO MONO BLOCK CV126  
 D : DINOIL DNC65/6  
 H : HANIL AV 80/6  
 W : WALVOIL, SDS100

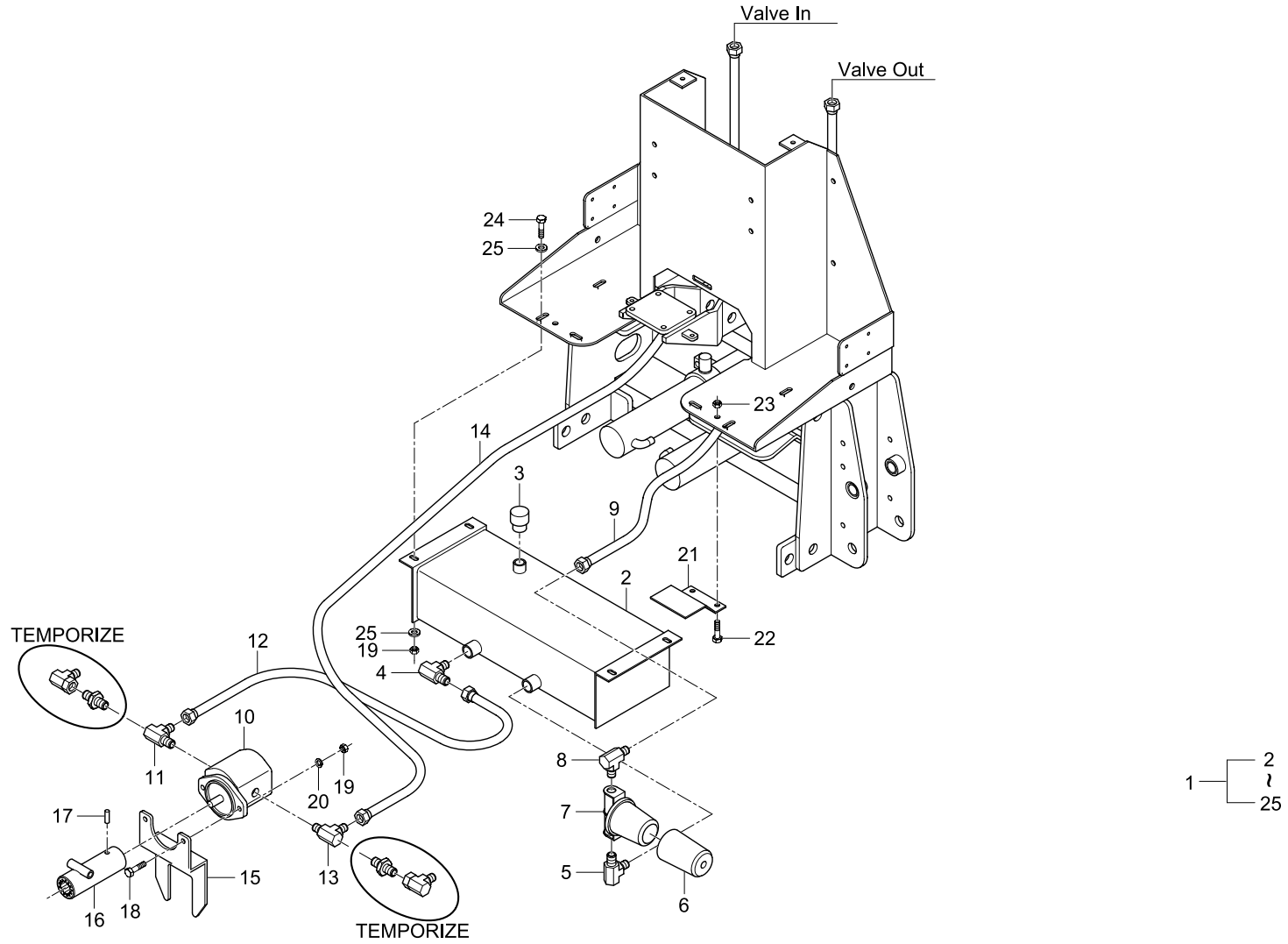
## 13.2 HOSE KIT (DK35/40, 45/50)





# 13.3 PUMP KIT (LB1914, LK3054)

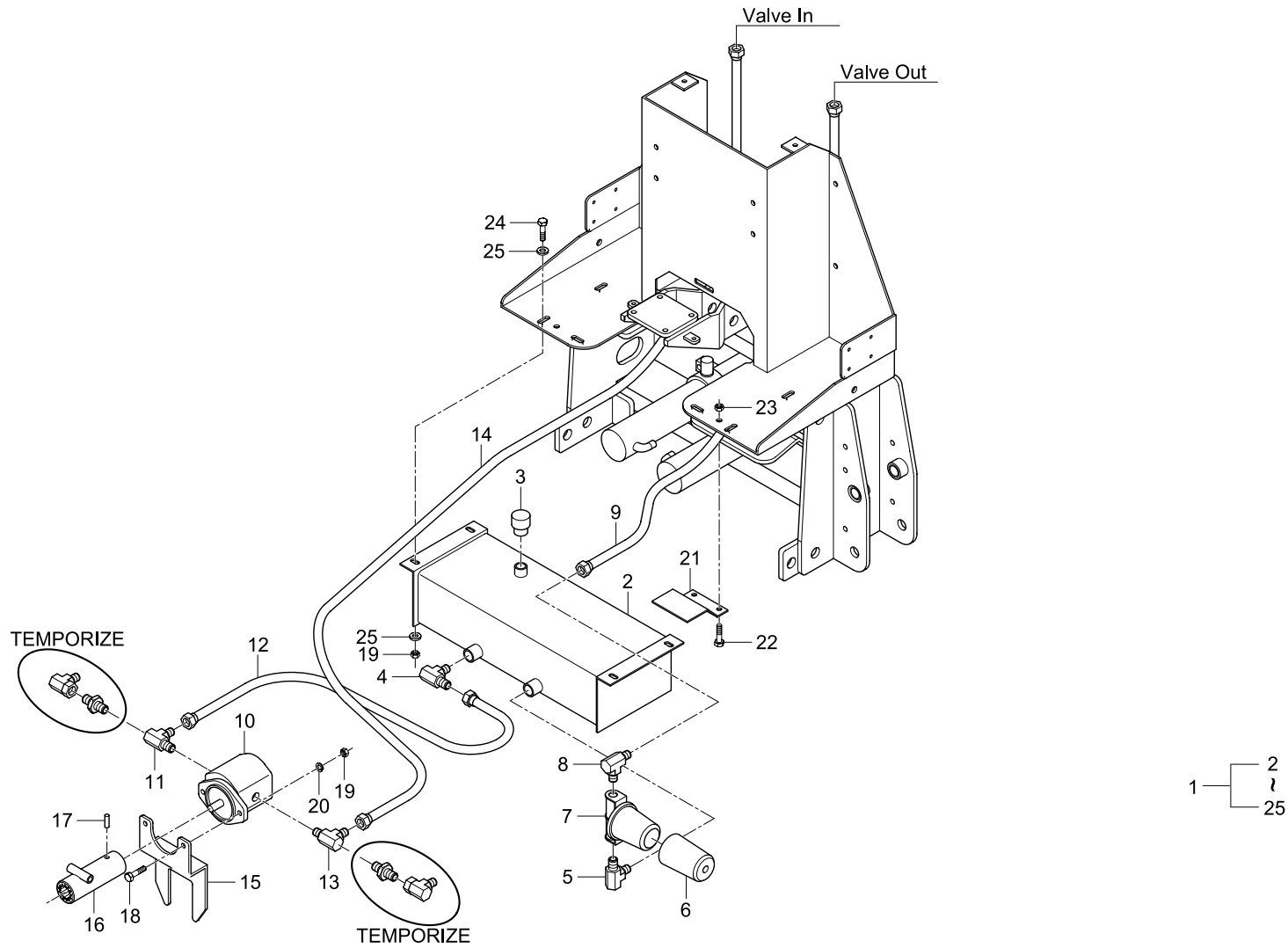
UPDATED(03.18.2005)



REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	PK01-0100-P	Pump Kit Ass'y(No 2~25)	1	←	
1	PK01-0100-PA	Pump Kit Ass'y(No 2~25)	1	←	05.10.2004~
2	PK01-0100	Tank Ass'y	1		
3	5001-B101	Breather, PF 1/2	1		
4	6003-0305	Adapter Elbow, PT3/4*7/8-14UNF	1	←	
4	6003-0307	Adapter Elbow, PT3/4*1-1/16UN, 90°	1	←	05.10.2004~
5	6003-0304	Adapter Elbow, PT3/4*PT3/4, 90°	1		
6	PK01-0202	Filter Element	1		
7	PK01-0201	Filter Head	1		
8	6003-0305	Adapter Elbow, PT3/4*7/8-14UNF, 90°	1		
9	PK01-1200	Hose, 4(7/8-14UNF)*4(3/4-16UNF) 760L	1		
10	PK02-0100	Pump	1	←	
10	AS25-93110	Pump	1	←	05.10.2004~
11	6003-0303	Adapter Elbow, PT1/2-PF3/4	1	←	
11	6003-0303-A	Adapter Elbow, PF 1, O-ring * 1-1/16UN, 90°	1	←	05.10.2004~
12	PK01-1100	Hose, 4(1/2")*4(3/4") 760L	1	←	
12	PK01-1100-A	Hose, 4(1-1/16UN)*4(1-1/16UN) 760L	1	←	05.10.2004~
13	6003-0306	Adapter Elbow, PT1/2*7/8-14UNF	1	←	
13	6003-0306-A	Adapter Elbow, PF3/4, O-ring *7/8-14UNF 90°	1	←	05.10.2004~
14	PK01-1300	Hose, 4(7/8-14UNF)*4(3/4-16UNF) 1320L	1		
15	PK01-0601	Bracket, 6T	1	←	
15	PK01-0601-A	Bracket, 6T	1	←	05.10.2004~
16	PK04-0100	PTO Adapter	1		05.10.2004~
17	1002-0833	Set Screw, M5-0.8P	1	←	05.10.2004~
17	1401-0532	Set Screw, M5-0.8P	1	←	P/No.Revision 02.03.2006

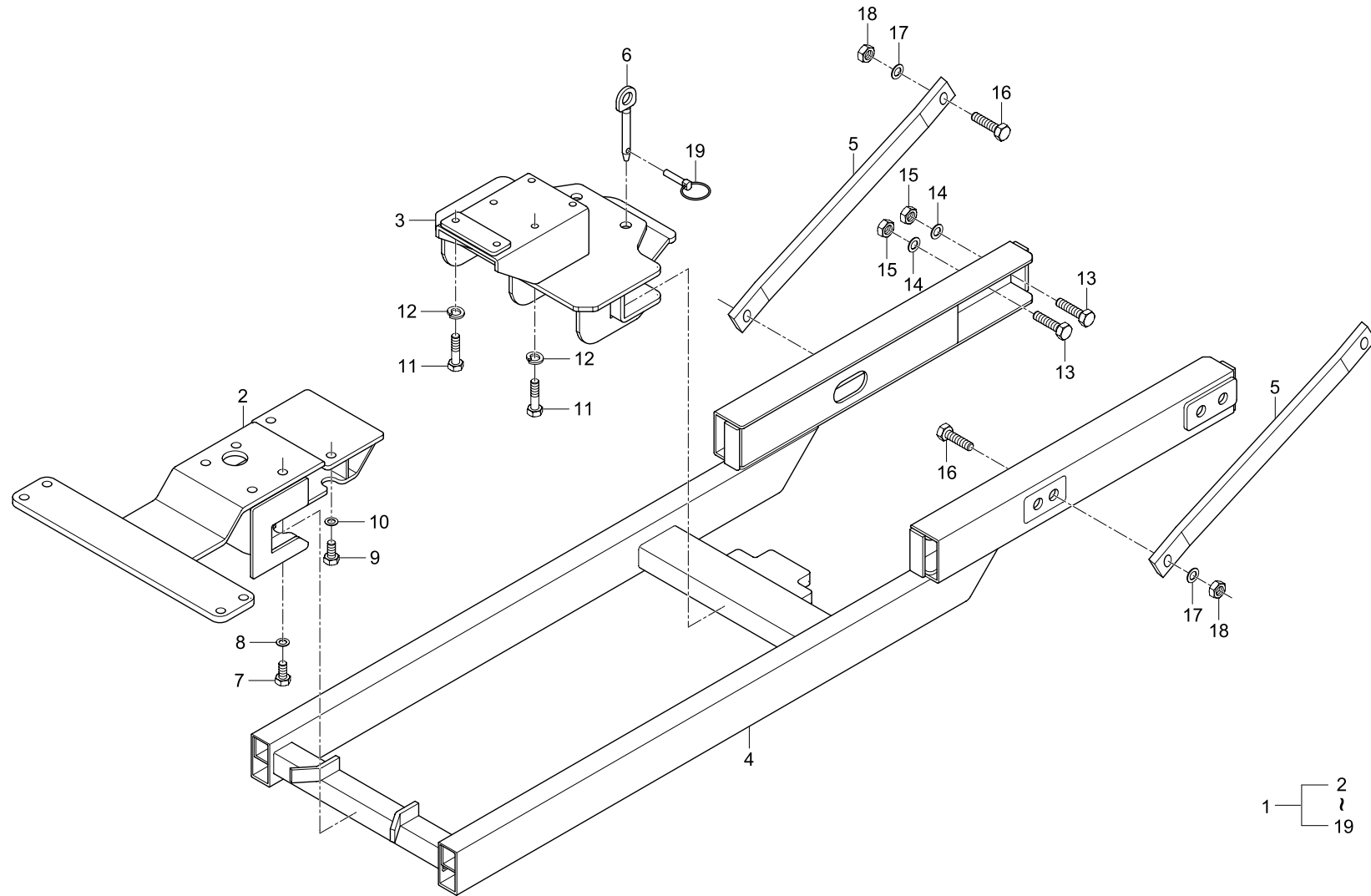
# 13.3 PUMP KIT (LB1914, LK3054)

UPDATED(03.18.2005)





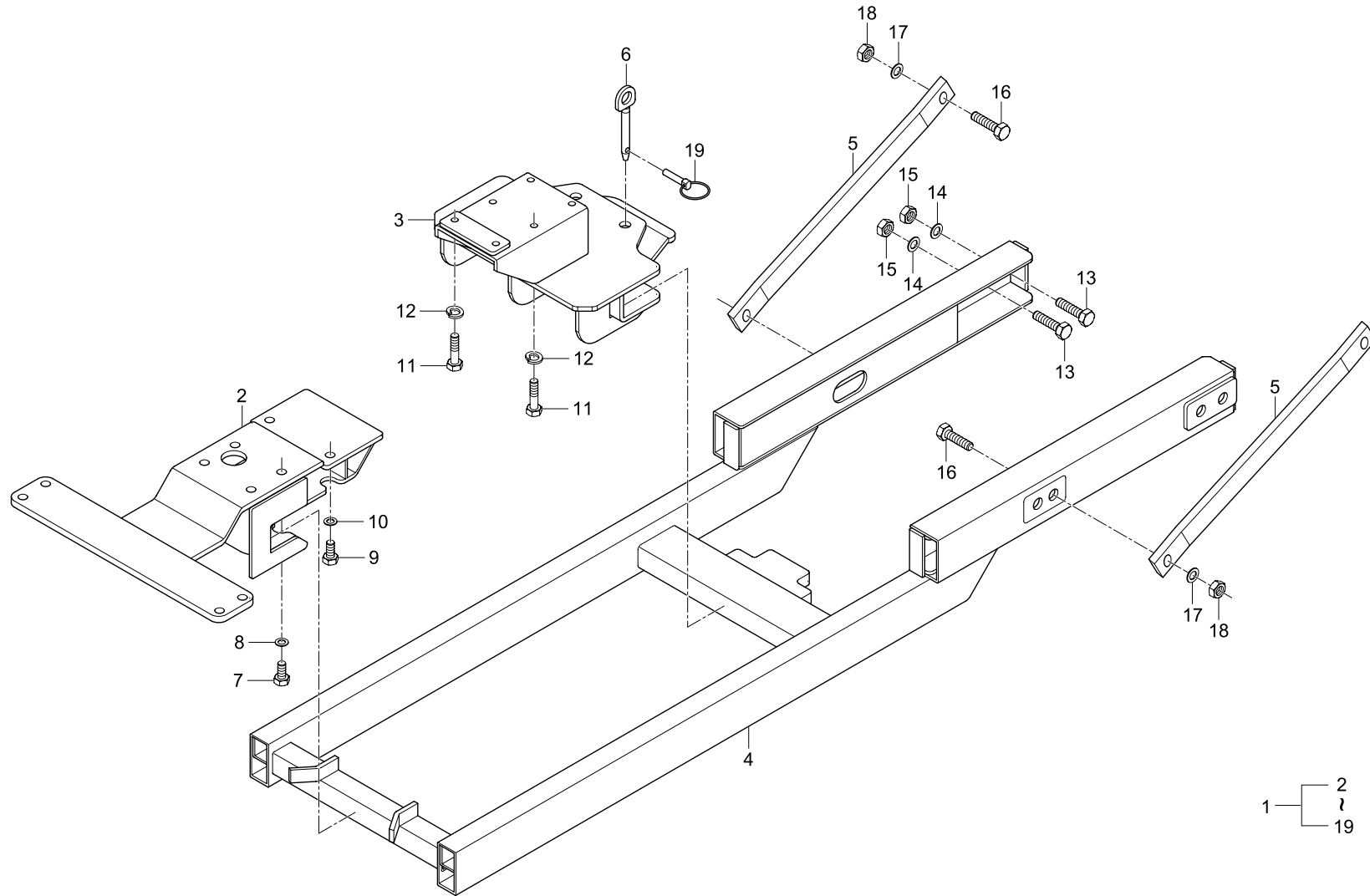
# 13.4 SUB FRAME(DK35/40) ASSEMBLY





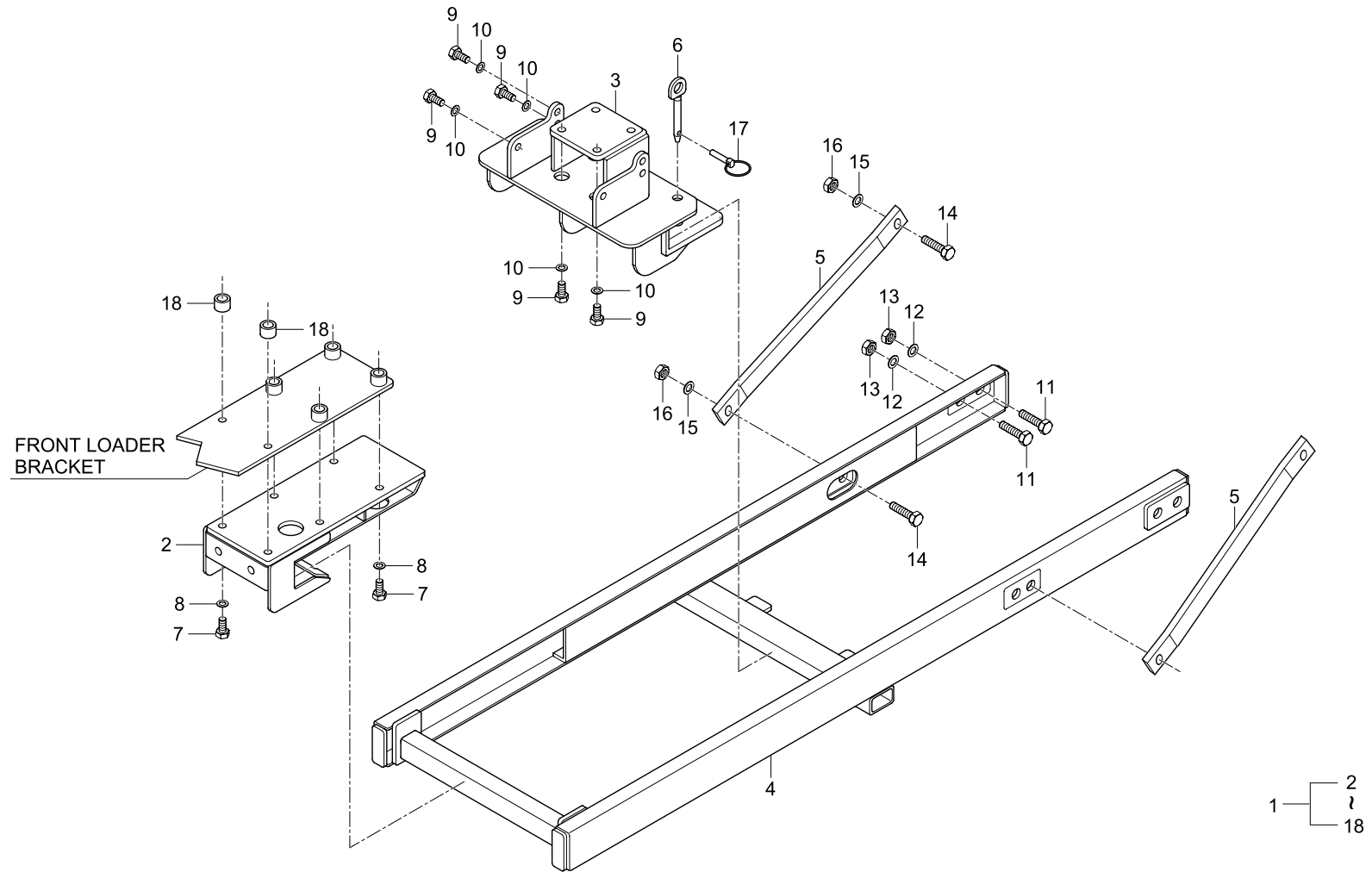
REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	DT00-0100	Sub Frame(DK35/40) Ass'y(No 2~19)	1		
2	DT01-0300	F Sub Frame	1	←	
2	DT01-0100	F Sub Frame	1	←	06.14.2004~
3	DT01-0200	R Sub Frame	1	←	
3	DT02-0100	R Sub Frame	1	←	06.14.2004~
4	DT01-0100	Sub Frame	1	←	
4	DT03-0100	Rail Ass'y	1	←	06.14.2004~
5	SB03-0100	Brace, 16T	2	←	
5	DD04-0101	Brace, 16T	2	←	06.14.2004~
6	DT01-0400	Pin, ø20-130L	2	←	
6	DK04-0100	Pin, ø20-120L	2	←	06.14.2004~
7	1001-1237	Hex Head Bolt, M12-1.25P 35L	4		
8	1003-0012	Spring Washer, ø12	4		
9	1001-1234	Hex Head Bolt, M12-1.25P 20L	2		
10	1003-0012	Spring Washer, ø12	2		
11	1001-1458	Hex Head Bolt, M14-1.5P 40L	6	←	
11	1001-1459	Hex Head Bolt, M14-1.5P 45L	6	←	06.14.2004~
12	1003-0014	Spring Washer, ø14	6		
13	1001-228G	Hex Head Bolt, M22-2.5P 80L	4	←	
13	1001-228D	Hex Head Bolt, M22-2.5P 65L	4	←	06.14.2004~
14	1003-0022	Spring Washer, ø22	4		
15	1002-2282	Hex Head Nut, M22-2.5P	4		
16	1001-208E	Hex Head Bolt, M20-2.5P 70L	4	←	
16	1001-228C	Hex Head Bolt, M20-2.5P 60L	4	←	06.14.2004~
17	1001-0020	Spring Washer, ø20	4		

# 13.4 SUB FRAME(DK35/40) ASSEMBLY



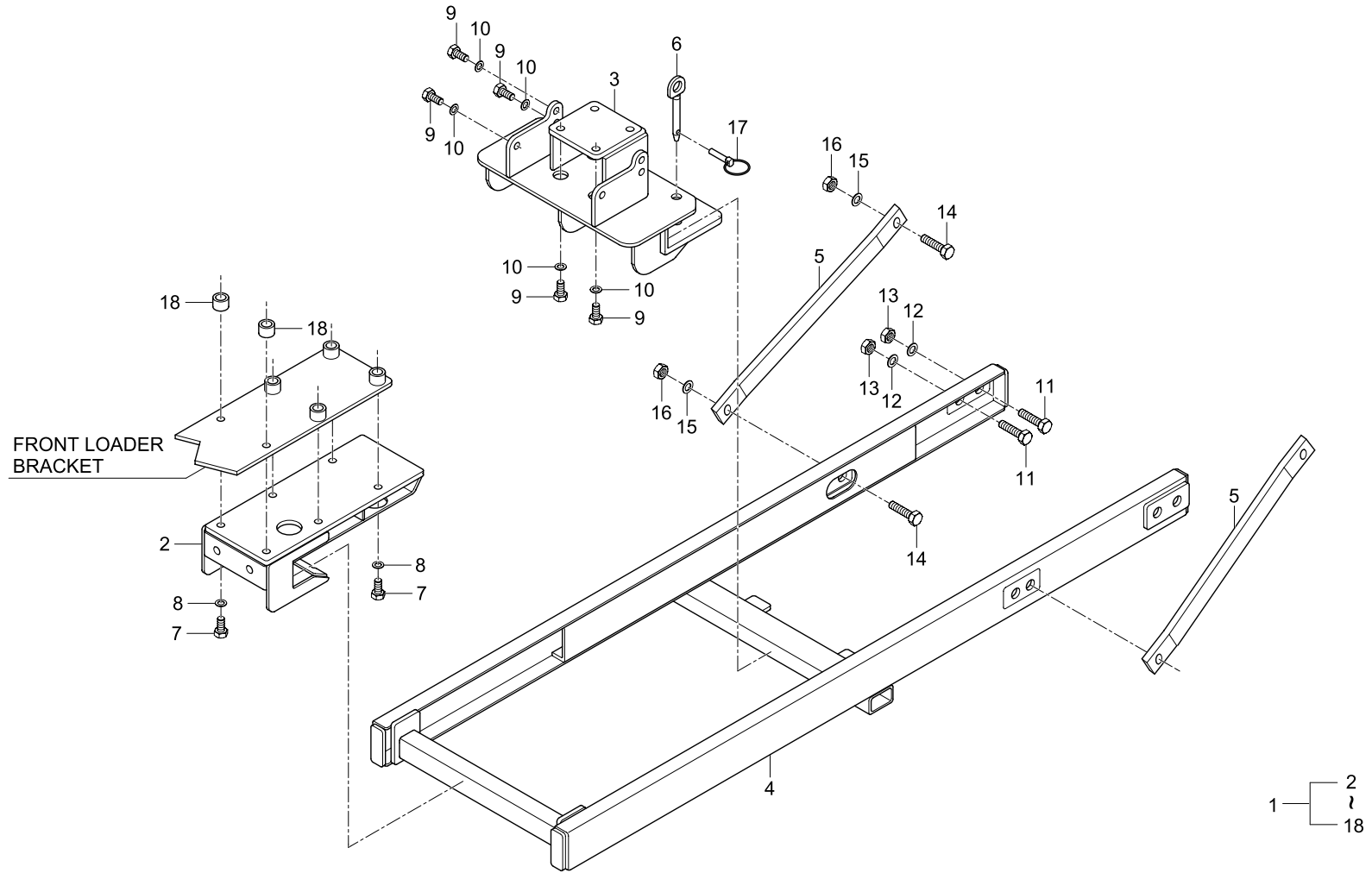


# 13.5 SUB FRAME(DK45/50) ASSEMBLY



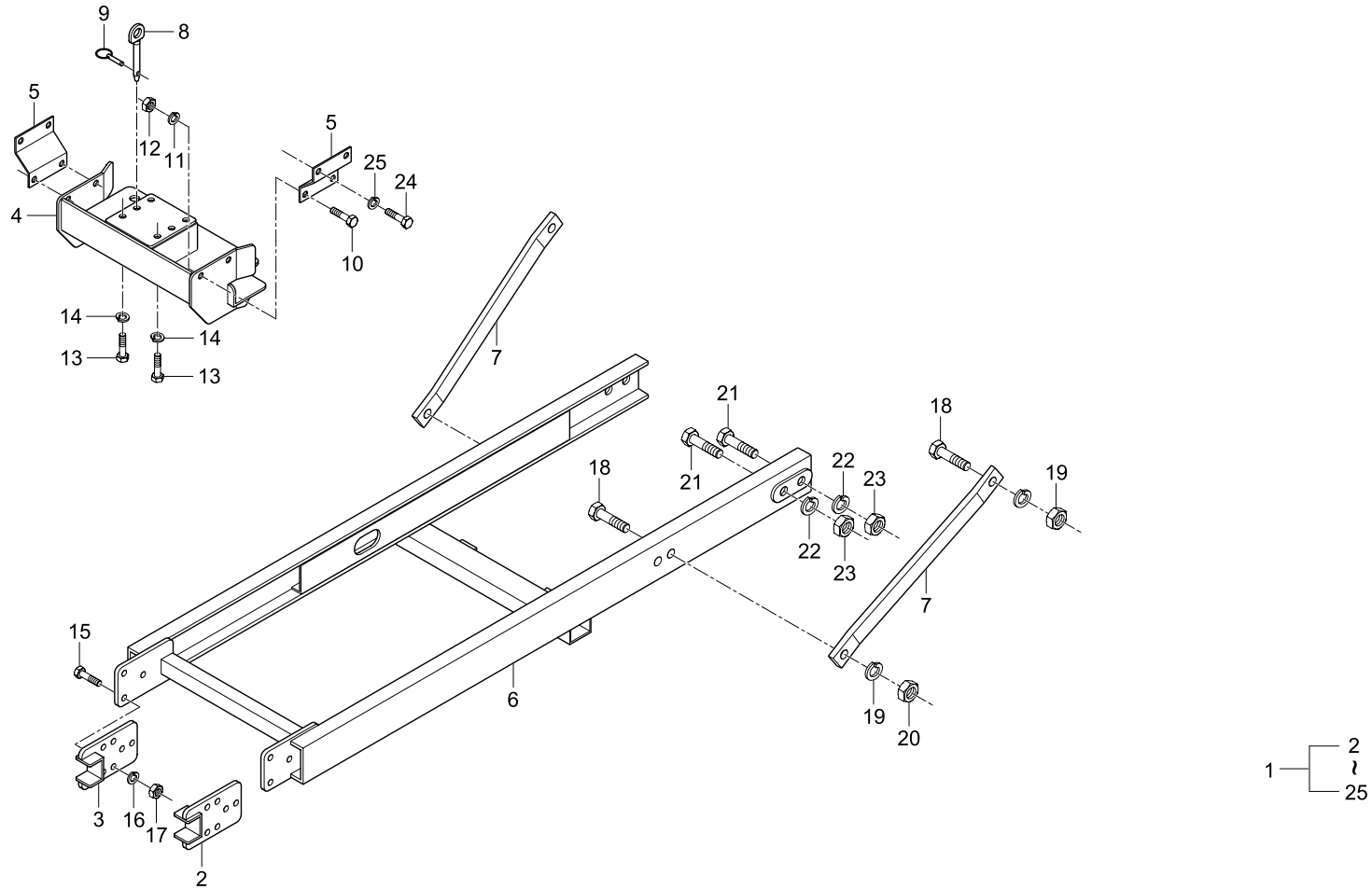
REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	DD00-0100	Sub Frame(DK45/50) Ass'y(No 2~18)	1		
2	DD01-0300	F Sub Frame	1	←	
2	DD01-0100	F Sub Frame	1	←	06.14.2004~
3	DD01-0200	R Sub Frame	1	←	
3	DD02-0100	R Sub Frame	1	←	06.14.2004~
4	DD01-0100	Sub Frame	1	←	
4	DD03-0100	Rail Ass'y	1	←	06.14.2004~
5	SB03-0100	Brace, 16T	2	←	
5	DD04-0101	Brace, 16T	2	←	06.14.2004~
6	DD01-0400	Pin, ø20-130L	2	←	
6	DK04-0100	Pin, ø20-120L	2	←	06.14.2004~
7	1001-1256	Hex Head Bolt, M12-1.25P 30L	6	←	
7	1001-1238	Hex Head Bolt, M12-1.25P 40L	6	←	06.14.2004~
8	1003-0012	Spring Washer, ø12	6		
9	1001-1459	Hex Head Bolt, M14-1.5P 45L	10		
10	1003-0014	Spring Washer, ø14	10		
11	1001-228G	Hex Head Bolt, M22-2.5P 80L	4	←	
11	1001-228D	Hex Head Bolt, M22-2.5P 65L	4	←	06.14.2004~
12	1003-0022	Spring Washer, ø22	4		
13	1002-2282	Hex Head Nut, M22-2.5P	4		
14	1001-208E	Hex Head Bolt, M20-2.5P 70L	4	←	
14	1001-208C	Hex Head Bolt, M20-2.5P 60L	4	←	06.14.2004~
15	1001-0020	Spring Washer, ø20	4		
16	1002-2082	Hex Head Nut, M20-2.5P	4		
17	1008-1001	Ring Pin, ø10	2		

# 13.5 SUB FRAME(DK45/50) ASSEMBLY





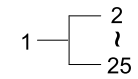
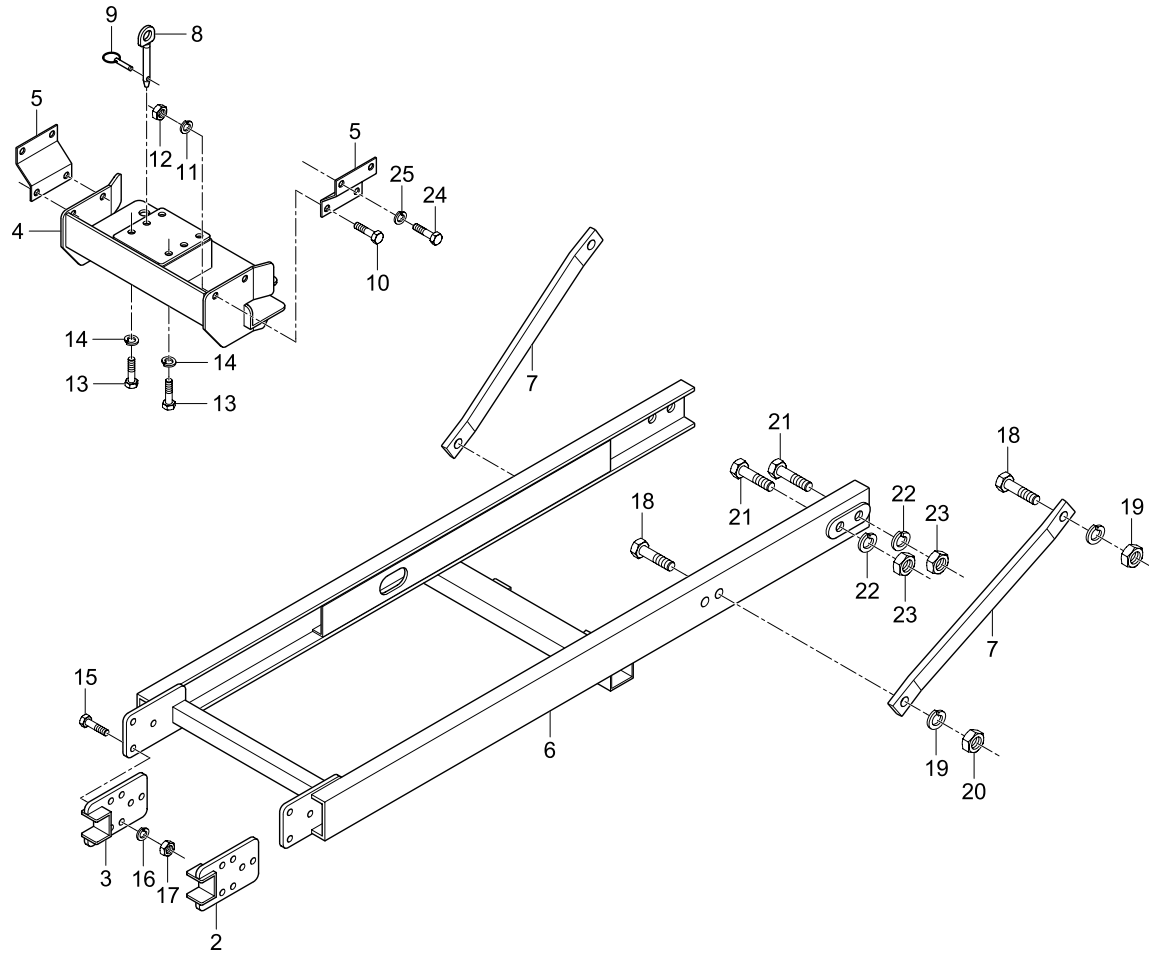
# 13.6 SUB FRAME(LK3054) ASSEMBLY





REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	DL00-0100	Sub Frame(LK3054) Ass'y(No 2~25)	1		
2	DL01-0300	F Sub Frame	1	←	
2	DL01-0100	FL Sub Frame	1	←	06.14.2004~
3	DL01-0300	F Sub Frame	1	←	
3	DL01-0200	FR Sub Frame	1	←	06.14.2004~
4	DL01-0200	R Sub Frame	1	←	
4	DL02-0100	R Sub Frame	1	←	06.14.2004~
5	DL01-0206	Side Bracket	2	←	
5	DL02-0201	Side Bracket	2	←	06.14.2004~
6	DL01-0100	Sub Frame	1	←	
6	DL03-0100	Rail Ass'y	1	←	06.14.2004~
7	SB03-0100	Brace, 16T	2	←	
7	DD04-0101	Brace, 16T	2	←	06.14.2004~
8	DL01-0500	Pin, ø20-130L	2	←	
8	DK04-0100	Pin, ø20-120L	2	←	06.14.2004~
9	1008-1001	Ring Pin, ø10	2		
10	1001-1458	Hex Head Bolt, M14-1.5P 40L	4	←	
10	1001-1457	Hex Head Bolt, M14-1.5P 35L	4	←	06.14.2004~
11	1003-0014	Spring Washer, ø14	4		
12	1002-1453	Hex Head Nut, M14-1.5P Lock	4	←	
12	1002-1452	Hex Head Nut, M14-1.5P	4	←	06.14.2004~
13	1001-1459	Hex Head Bolt, M14-1.5P 45L	6		
14	1003-0014	Spring Washer, ø14	6		
15	1001-1659	Hex Head Bolt, M16-1.5P 45L	6		
16	1003-0016	Spring Washer, ø16	6		

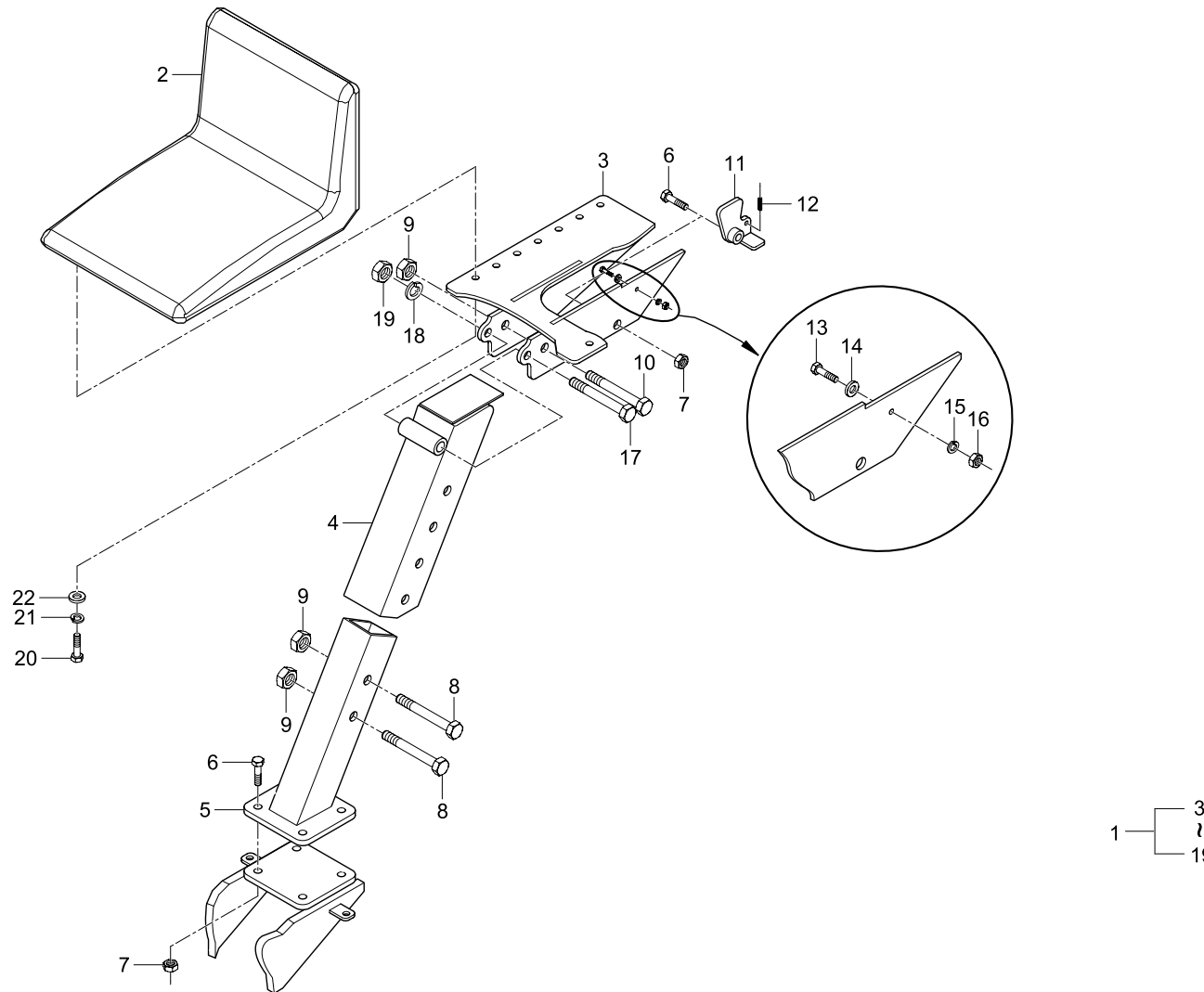
# 13.6 SUB FRAME(LK3054) ASSEMBLY





# 13.7 SEAT ASSEMBLY

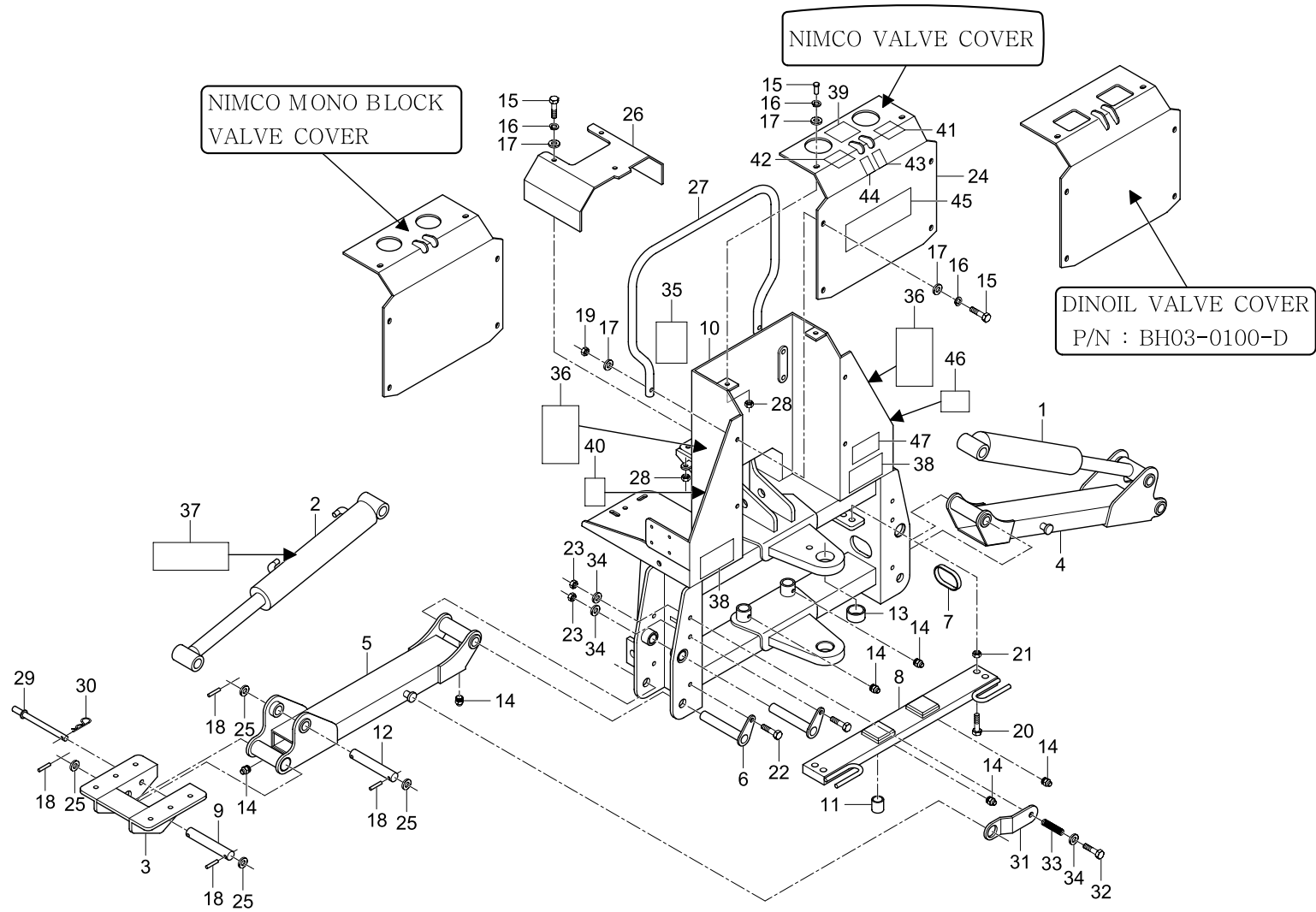
UPDATED(06.16.2004)



REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	BH06-0100-P	Seat Support Ass'y(No 3~19)	1		
2	V-2400	Seat	1		
3	BH06-0100	Seat Plate	1	←	30504121~30504150
3	BH06-0100-A	Seat Plate	1		
4	BH06-0200	Upper Post	1		
5	BH06-0300	Lower Post	1		
6	1000-1056	Hex Head Bolt, M10-1.5P 30L	5		
7	1002-1053	Hex Head Nut, Lock, M10-1.5P	5		
8	1000-126G	Hex Head Bolt, M12-1.75P 80L	2		
9	1002-1263	Hex Head Nut, Lock, M12-1.75P	3		
10	1000-126J	Hex Head Bolt, M12-1.75P 95L	1		
11	BH06-0104	Latch Plate, 4.5T	1		
12	BH06-0106	Spring, 3kg	1		
13	BN06-0103	Hex Head Bolt, M5-0.8P 12L	1		
14	1004-0005	Flat Washer, ø5	1		
15	1003-0005	Spring Washer, ø5	1		
16	1002-0611	Hex Head Nut, M5-0.8P	1		
17	1000-105I	Hex Head Bolt, M10-1.5P 90L	1		
18	1003-0010	Spring Washer, ø10	1		
19	1002-1051	Hex Head Nut, M10-1.5P	1		
20	1200-0364	Hex Head Bolt, 5/16-18 20L	4		
21	1204-0301	Spring Washer, ø5/16	4		
22	1203-0301	Washer Flat, ø5/16	4		

# 13.8 MAIN FRAME ASSEMBLY

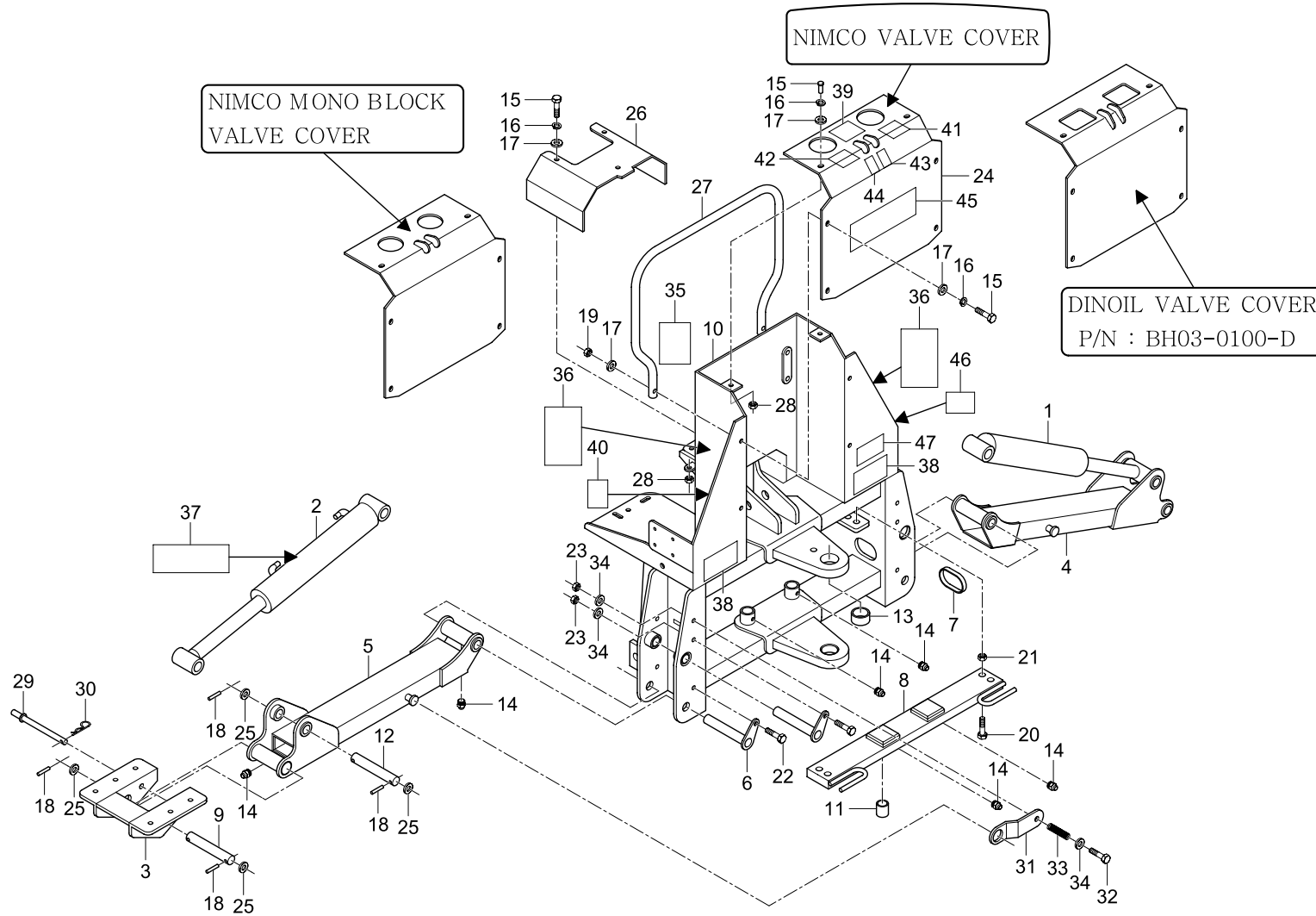
UPDATED(01.27.2007)




REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	BH17-0100L-B	Stabilizer Cylinder Ass'y LH	1		
2	BH17-0100R-B	Stabilizer Cylinder Ass'y RH	1		
3	BH08-0100	Foot Plate	2	←	30504121~30504150
3	BH08-0100-A	Foot Plate	2	└─┘	
3	BH08-0100-B	Foot Plate	2	└─┘	31114301~
	BH07-0100	Stabilizer Ass'y	2	←	30504121~30504150
	BH07-0100-A	Stabilizer Ass'y	2	└─┘	
4	BH07-0100L-B	Stabilizer Ass'y LH	1	└─┘	31114301~
5	BH07-0100R-B	Stabilizer Ass'y RH	1	└─┘	31114301~
6	BH01-0121	Pin, ø25-150L	4		
7	8003-B109	Hose Trim, 9T-205L	2		
8	BH05-0100	Cross Bar	1		
9	BH07-0108	Pin, ø25-160L	2		
10	BD01-0100	Mainframe Ass'y, NIMCO, HANNIL VALVE	1		
10	BD01-0100-W	Mainframe Ass'y, WALVOIL VALVE	1		
11	BH05-0102	Bushing, 25*32 32L	2		
12	BH07-0107	Pin, ø25-150L	2		
13	BH01-0114	Bushing, 38*48 25L	2	←	
13	BH01-0114-A	Bushing, 38*48 25L	2	└─┘	40211121~
14	4001-0001	Grease Nipple, PT 1/8"	8		
15	1000-0835	Hex Head Bolt, M8-1.25P 25L	8		
16	1003-1008	Spring Washer, ø8	8		
17	1004-0008	Washer Flat, ø8	12		
18	1008-0001	Cotter Pin, ø5	8		
18	1008-3002	Spring Pin, ø5	8		

# 13.8 MAIN FRAME ASSEMBLY

UPDATED(01.27.2007)

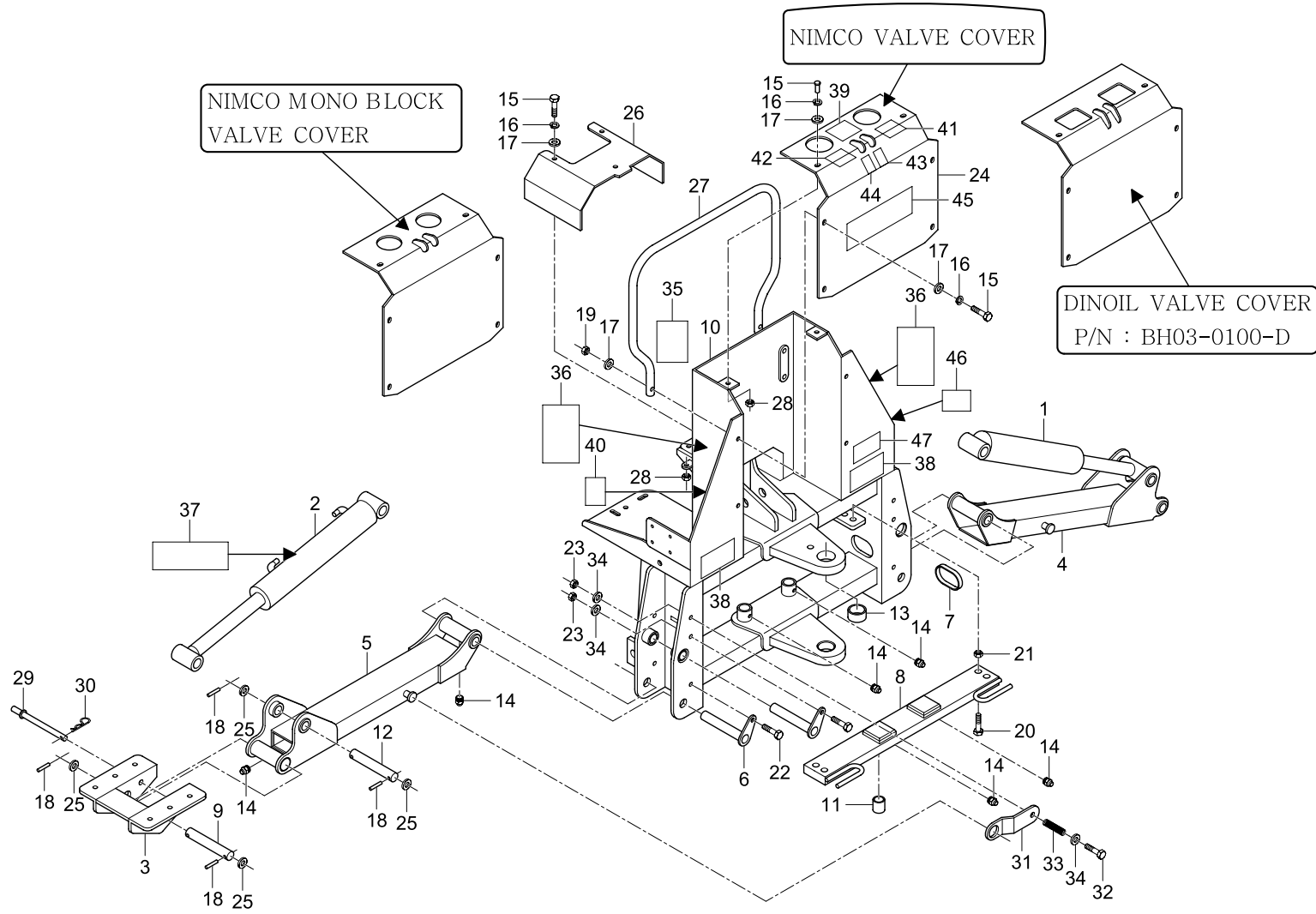




REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
19	1002-0833	Hex Head Nut, Lock, M8-1.25P	4		
20	1001-167C	Hex Head Bolt(HT), M16-2.0P 60L	4		
21	1002-1673	Hex Head Nut, Lock, M16-2.0P	4		
22	1000-1055	Hex Head Bolt, M10-1.5P 25L	4		
23	1002-1053	Hex Head Nut , Lock, M10-1.5P	6		
24	BH03-0100	Front Cover, NIMCO VALVE, 3.2T	1		
24	BH03-0100-NM	Front Cover, NIMCO MONO BLOCK VALVE, 3.2T	1		
24	BH03-0100-D	Front Cover, DINOIL VALVE, 3.2T	1		
24	BH03-0100-H	Front Cover, HANIL VALVE, 2.3T	1		
24	BH03-0100-W	Front Cover, WALVOIL VALVE,2.3T	1		
25	BH01-0120	Washer Flat, 3.2T	8		
26	BH02-0100	Bracket Cover, 3.2T	1		
27	BH04-0100-A	Guide Bar	1		
28	1002-0831	Hex Head Nut, M8-1.25P	4		
29	BH08-0103	Pin, ø13-190L	2		
30	1008-2002	R-Pin, ø3	2		
31	BH07-0111	Lock, Stabilizer, 6T	2		
32	1001-1236	Hex Head Bolt, M12-1.25P 30L	2		
32	1000-1059	Hex Head Bolt, M10-1.5P 45L	2		31114301~
33	BH07-0113	Spring, 1Kg	2		
34	1004-0010	Flat Washer, ø10	8		
35	BH35-0101	Decal, Warning Bodily Injury	1		
36	BH35-0102	Decal, Warning Bodily Injury	2		
37	BH35-0103	Decal, Crushing Hazard	2		
38	BH35-0104	Decal, Danger Crushing Hazard	2		

# 13.8 MAIN FRAME ASSEMBLY

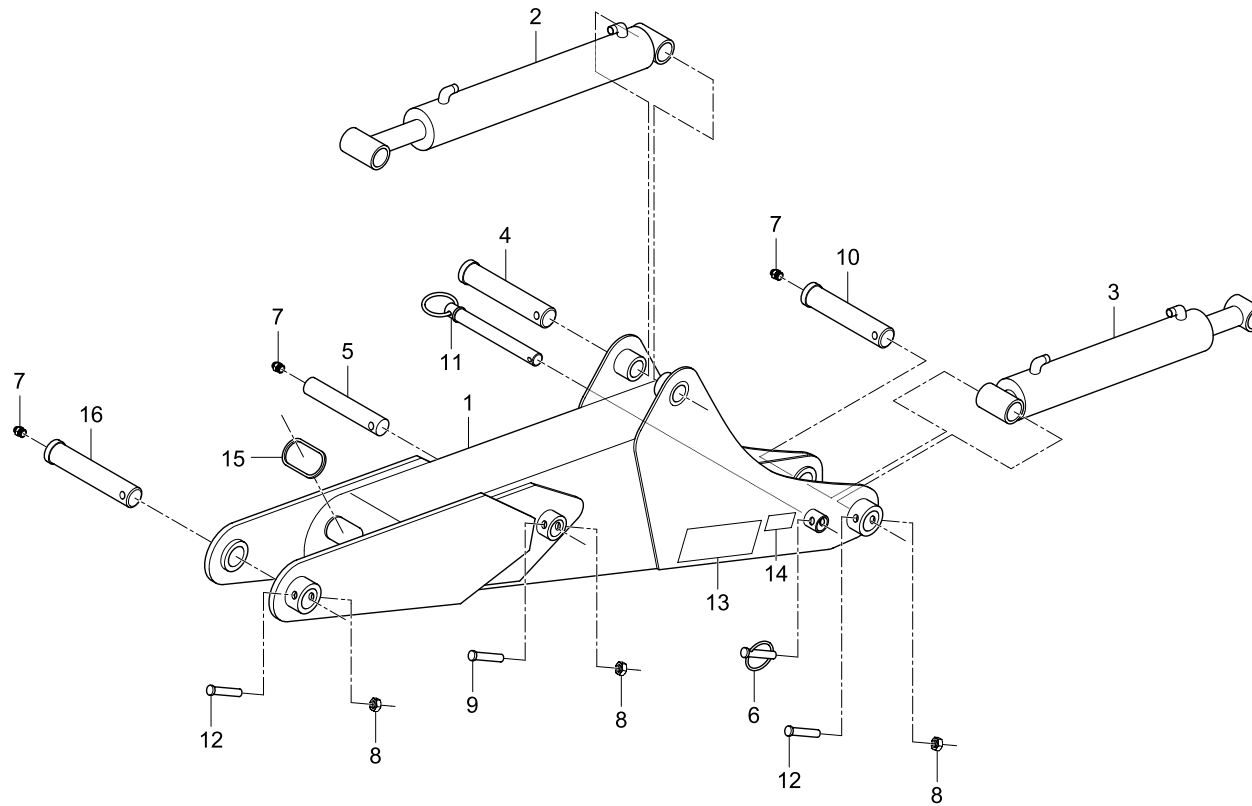
UPDATED(01.27.2007)





# 13.9 BOOM ASSEMBLY

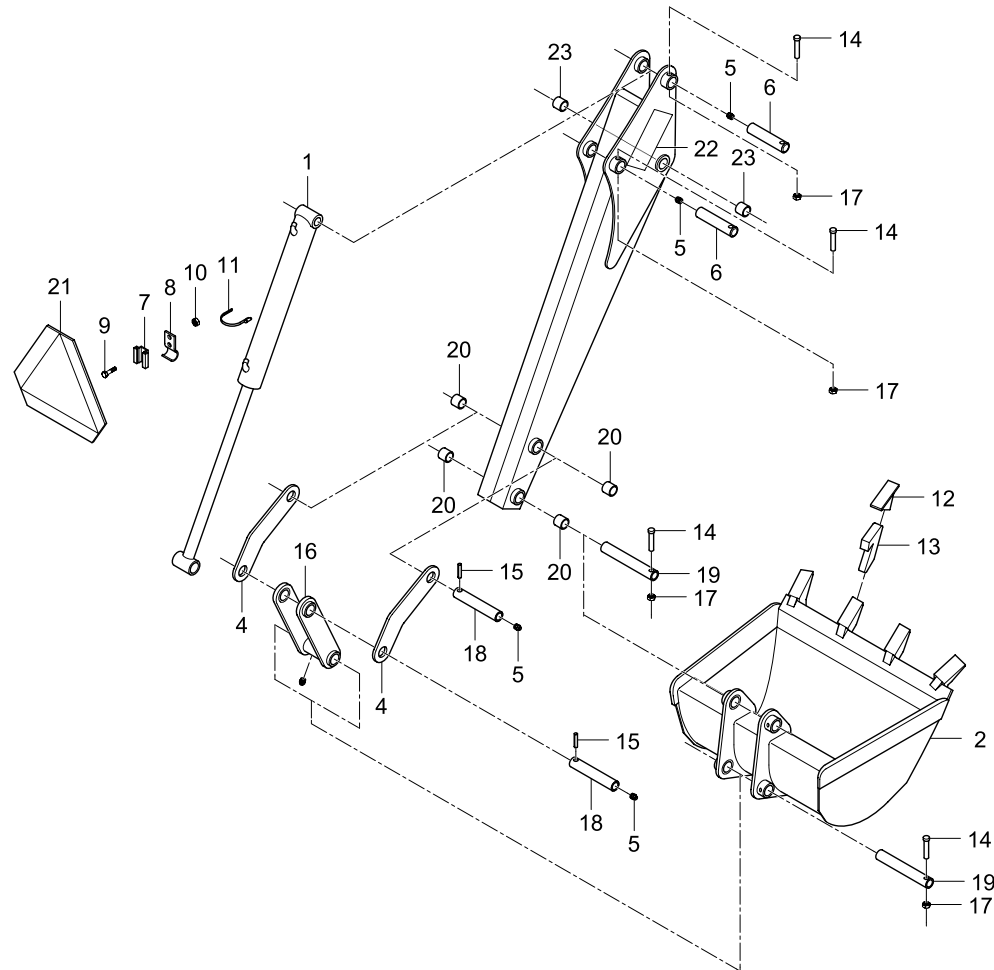
UPDATED(12.22.2006)







REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	BD10-0100	Boom Ass'y	1	←	
1	BD10-0100-A	Boom Ass'y	1	└─┘	40211121~
1	BD10-0100-B	Boom Ass'y	1	└─┘	60914033~
2	BH15-0100-B	Dipperstick Cylinder Ass'y	1		
3	BH14-0100-B	Boom Cylinder Ass'y	1		
4	BH10-0121	Pin, ø25-150L	1	←	
4	BH10-0121-A	Pin, Anti Rotation, ø25-150L	1	└─┘	40211121~
4	BH10-0121-A	Pin, ø25-200L	1	└─┘	60914033~
5	BH10-0120	Pin, ø25-186L	1		
6	1008-1001	Ring Pin, ø10	1		
7	4001-0001	Grease Nipple, PT 1/8"	3		
8	1002-1053	Hex Head Nut, Lock, M10-1.5P	4		Decreased 5->4 (60914033~)
9	1001-105A	Hex Head Bolt(HT), M10-1.5P 50L	2		
10	BH10-0118	Pin, ø32-186L	1		Decreased 2->1 (60914033~)
11	BH10-0119	Pin, ø22-186L	1	←	
11	BH10-0119-A	Pin, ø22-190L	1	└─┘	30811201~
12	1001-105C	Hex Head Bolt(HT), M10-1.5P 60L	2		
13	BD35-4000	Decal, KB2375	2		
14	BH35-0112	Decal, Boom Lock	1		
15	8003-B106	Hose Trim, 6T-213L	1		
16	BH10-0127	Pin, ø32-204L	1		60914033~

# 13.10 BUCKET, DIPPERSTICK ASSEMBLY

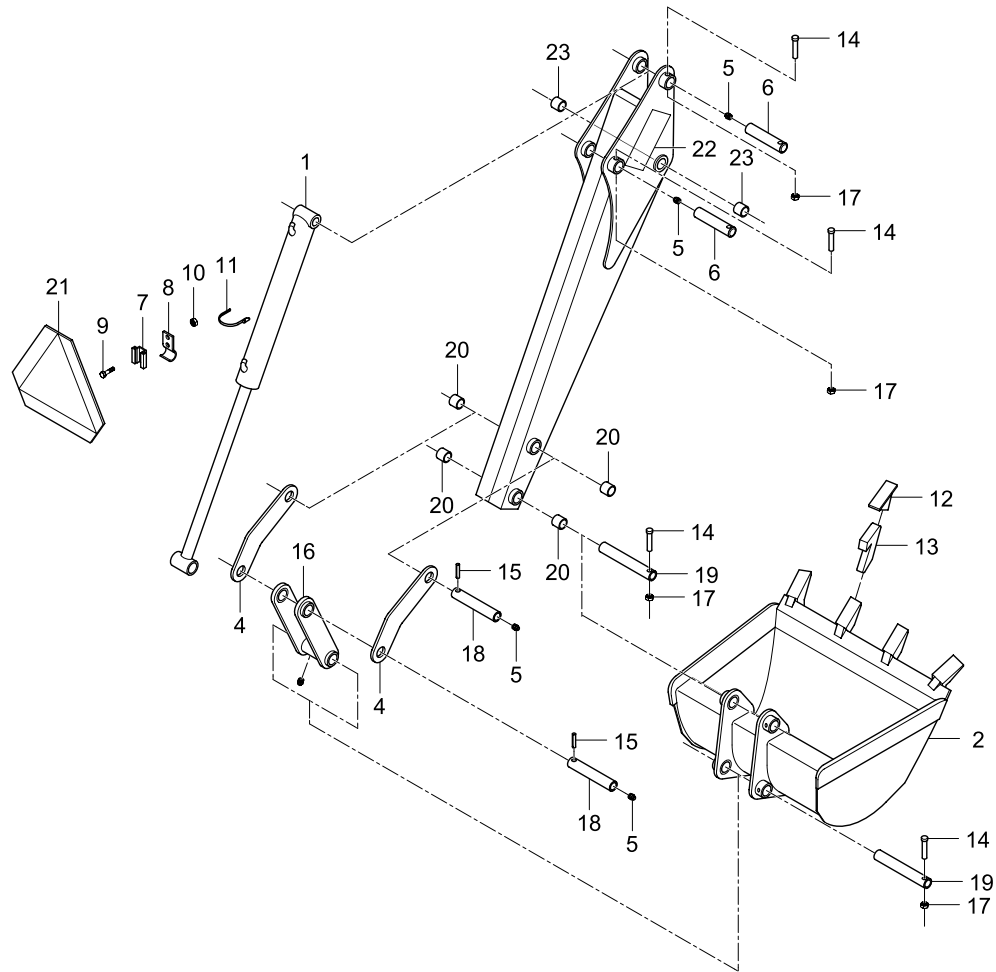
UPDATED(12.22.2006)



REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
	BH20-0100-P	9" Bucket Ass'y(No 2, 13, 14)	1		
	BH20-0200-P	12" Bucket Ass'y(No 2, 13, 14)	1		
	BH20-0300-P	16" Bucket Ass'y(No 2, 13, 14)	1		
	BH20-0400-P	18" Bucket Ass'y(No 2, 13, 14)	1		
	BH20-0500-P	24" Bucket Ass'y(No 2, 13, 14)	1		
	BH20-0600-P	36" Bucket Ass'y(No 2, 13, 14)	1		
1	BH16-0100-B	Bucket Cylinder Ass'y	1		
2	BH20-0100	9" Bucket, 3 Tooth	1		
2	BH20-0200	12" Bucket, 3 Tooth	1		
2	BH20-0300	16" Bucket, 3 Tooth	1		
2	BH20-0400	18" Bucket, 4 Tooth	1		
2	BH20-0500	24" Bucket, 5 Tooth	1		
2	BH20-0600	36" Bucket, 6 Tooth	1		
3	BH11-0100	Dipperstick Ass'y	1		
3	BH11-0100-A	Dipperstick Ass'y	1		60914033~
4	BH12-0101	Link Plate, 12T	2		
5	4001-0001	Grease Nipple, PT 1/8"	5		
6	BH11-0112	Pin, ø25-135L	2		
6	BH11-0112-A	Pin, ø25-145 L	2		60914033~
7	BH11-0115	Socket, 2.3T	1		
8	BH11-0116	Socket Bracket, 4.5T	1		
9	1301-0834	Bolt, M8-1.25P 20L	2		
10	1002-0831	Hex Head Nut, M8-1.25P	2		
11	8001-B010	Hose Band, 10"	1		
12	BH20-0111	Tooth	5		

# 13.10 BUCKET, DIPPERSTICK ASSEMBLY

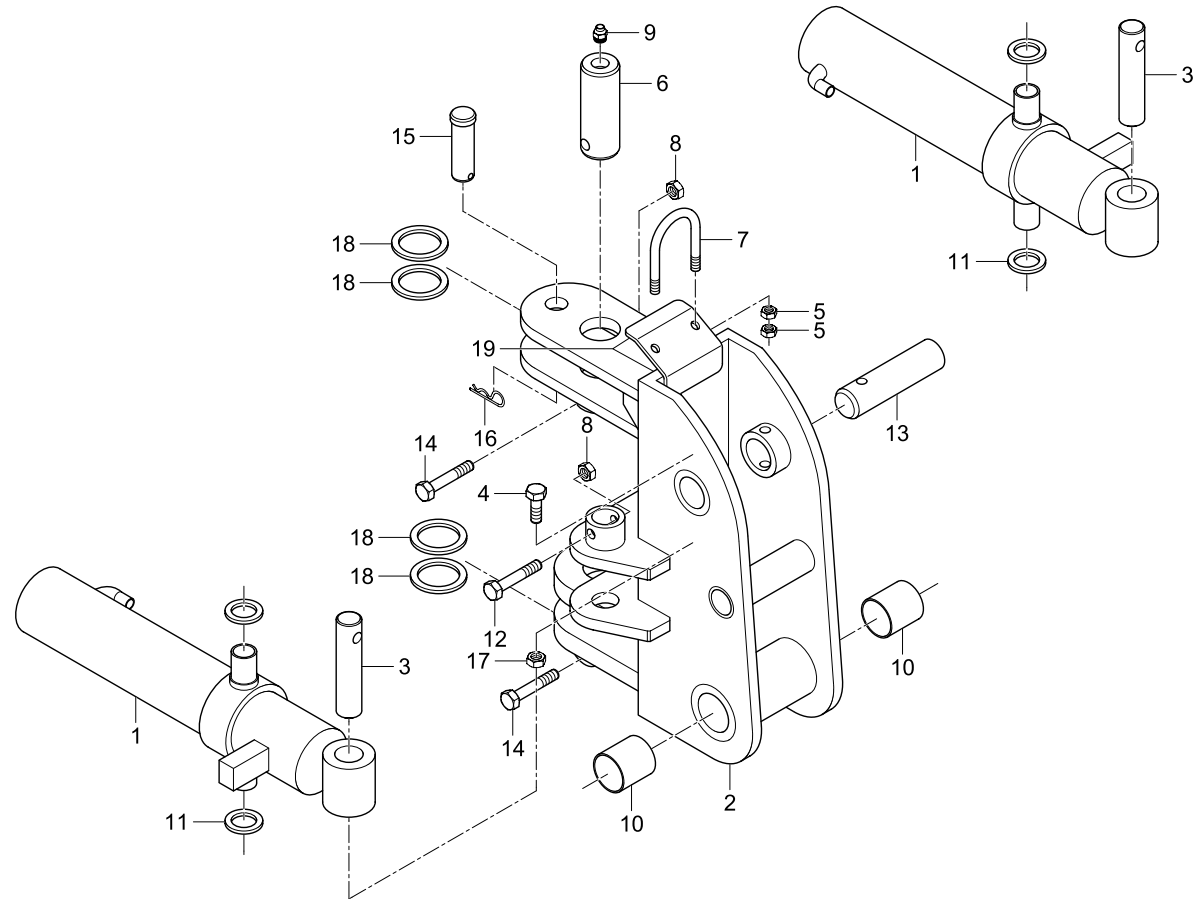
UPDATED(12.22.2006)















# 13.11 SWING ASSEMBLY



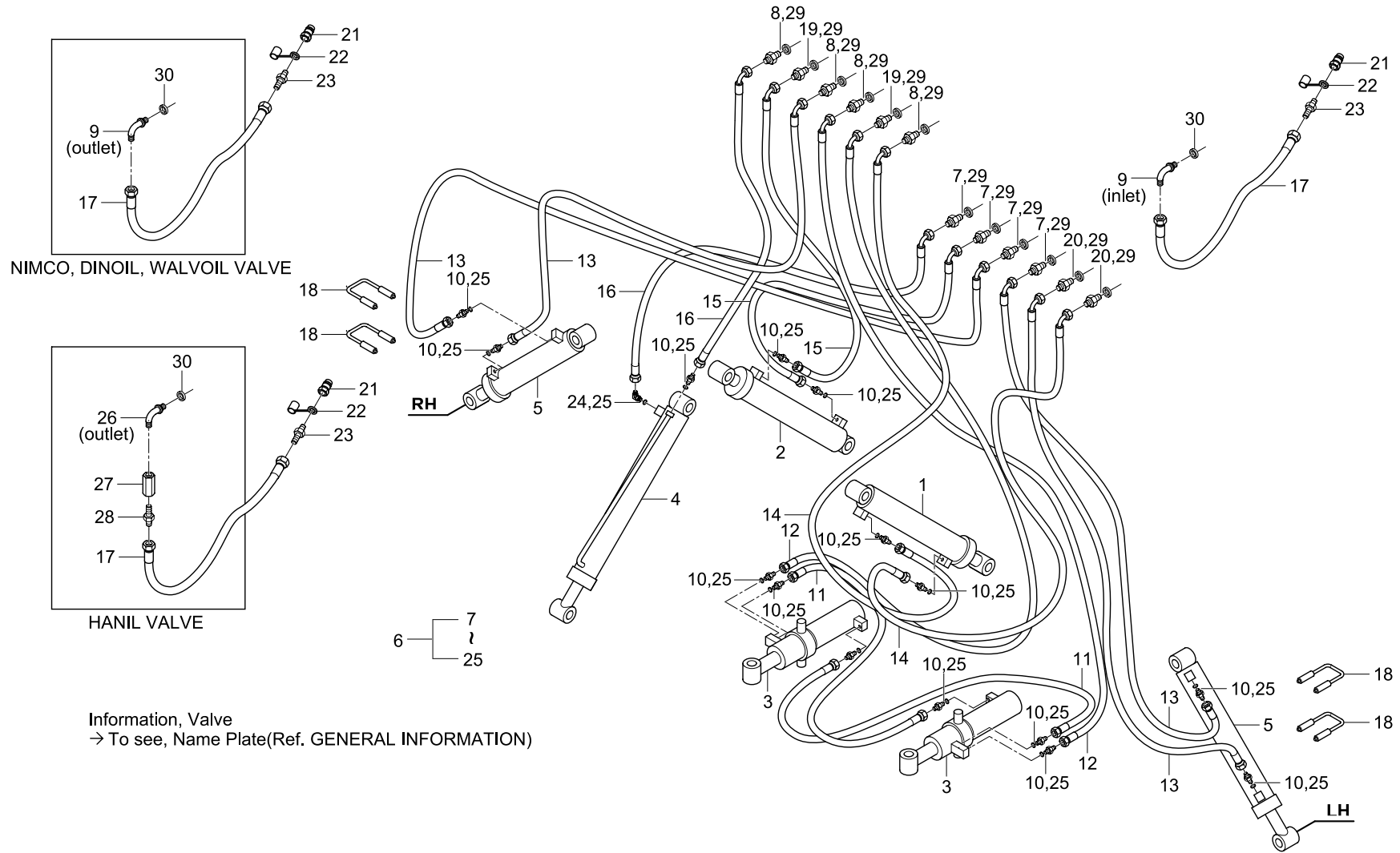
REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	BD18-0100-B	Swing Cylinder Ass'y	2		
2	BD09-0100	Swing Frame Ass'y	1		
3	BD09-0115	Pin, $\phi$ 25-107L	2		
4	1001-083A	Hex Head Bolt(HT), M8-1.25P 50L	1		
5	1202-0361	Hex Head Nut, 5/16-18	4		
6	BH09-0113	Pin, $\phi$ 38-96L	2		
6	BH09-0113-A	Pin, $\phi$ 38-108L	2		41123201~
7	BH09-0117	U-Bolt, $\phi$ 40, 5/16-18	1		
8	1002-1053	Hex Head Nut, M10-1.5P Lock	4		
9	4001-0001	Grease Nipple, PT 1/8"	2		
10	2010-4032	Du Bush, 32*36 40L	2		
11	BH01-0120	Washer Flat( $\phi$ 25), 3.2T	4		
12	1001-105A	Hex Head Bolt(HT), M10-1.5P 50L	2		
13	BH09-0116	Pin, $\phi$ 25-118L	1		
13	BH09-0116-A	Pin, $\phi$ 25-113L	1		30811201~
14	1001-105C	Hex Head Bolt(HT), M10-1.5P 60L	2		
15	BH09-0115	Pin, $\phi$ 20-73L	1		
16	1008-2002	R-Pin, $\phi$ 3	1		
17	1002-0833	Hex Head Nut, M8-1.25P Lock	1		
18	1004-0038	Washer Flat( $\phi$ 38), 3.2T	4		
19	BH35-0111	Decal, Swing Lock	1		



REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	BH14-0100-B	Boom Cylinder Ass'y	1		
2	BH15-0100-B	Dipperstick Cylinder Ass'y	1		
3	BD18-0100-B	Swing Cylinder Ass'y	2		
4	BH16-0100-B	Bucket Cylinder Ass'y	1		
5	BH17-0100L-B	Stabilizer Cylinder Ass'y LH	1		
5	BH17-0100R-B	Stabilizer Cylinder Ass'y RH	1		
6	BH30-0100-P	Hose Fitting Kit(No 7~25)	1		
7	6003-0203	Adapter, Short, 1/2-20UNF(1/4)X3/4-16UNF, O-Ring	4		
8	6003-0204	Adapter, Long, 1/2-20UNF(1/4)X3/4-16UNF, O-Ring	4		
9	6003-0302	Adapter Elbow, 3/4-16UNF(3/8)X7/8-14UNF, O-Ring 90°	1		
10	6004-0102	Nipple, 1/2-20UNF(1/4)X9/16-18UNF, O-Ring	4		
10	6004-0205	Nipple, PF(1/4) O-Ring X , 1/2-20UNF	15		51027001~
11	BH30-0100	Hose (Swing to Swing), 4(1/4)*4(1/4) 550L	2		
12	BH30-0200	Hose (Swing to Valve), 904(1/4)*4(1/4) 950L	2		
13	BH30-0300	Hose (Stabilizer), 904(1/4)*4(1/4) 1300L	4		
14	BD30-0400	Hose (Boom), 904(1/4)*4(1/4)1750L	2		
15	BD30-0500	Hose (Dipperstick), 904(1/4)*4(1/4) 2450L	2		
16	BH30-0600	Hose (Bucket), 904(1/4)*4(1/4) 2800L	2		
17	BH30-0700	Hose (Valve In, Out), 4(3/8)*4(3/8) 1600L	2		
18	8001-B010	Hose Band, 10"	10		
19	6003-0205	Orifice, Long, 1/2-20UNF(1/4)X3/4-16UNF, O-Ring	2		
20	6003-0206	Orifice, Short, 1/2-20UNF(1/4)X3/4-16UNF, O-Ring	2		
21	0001-1001	Quick Coupler, PT 3/8 male	2		
21	0001-1010	Quick Coupler, PT 1/2 male	2		
22	0001-1011	Dust Cap, 1/2 Female	2		

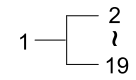
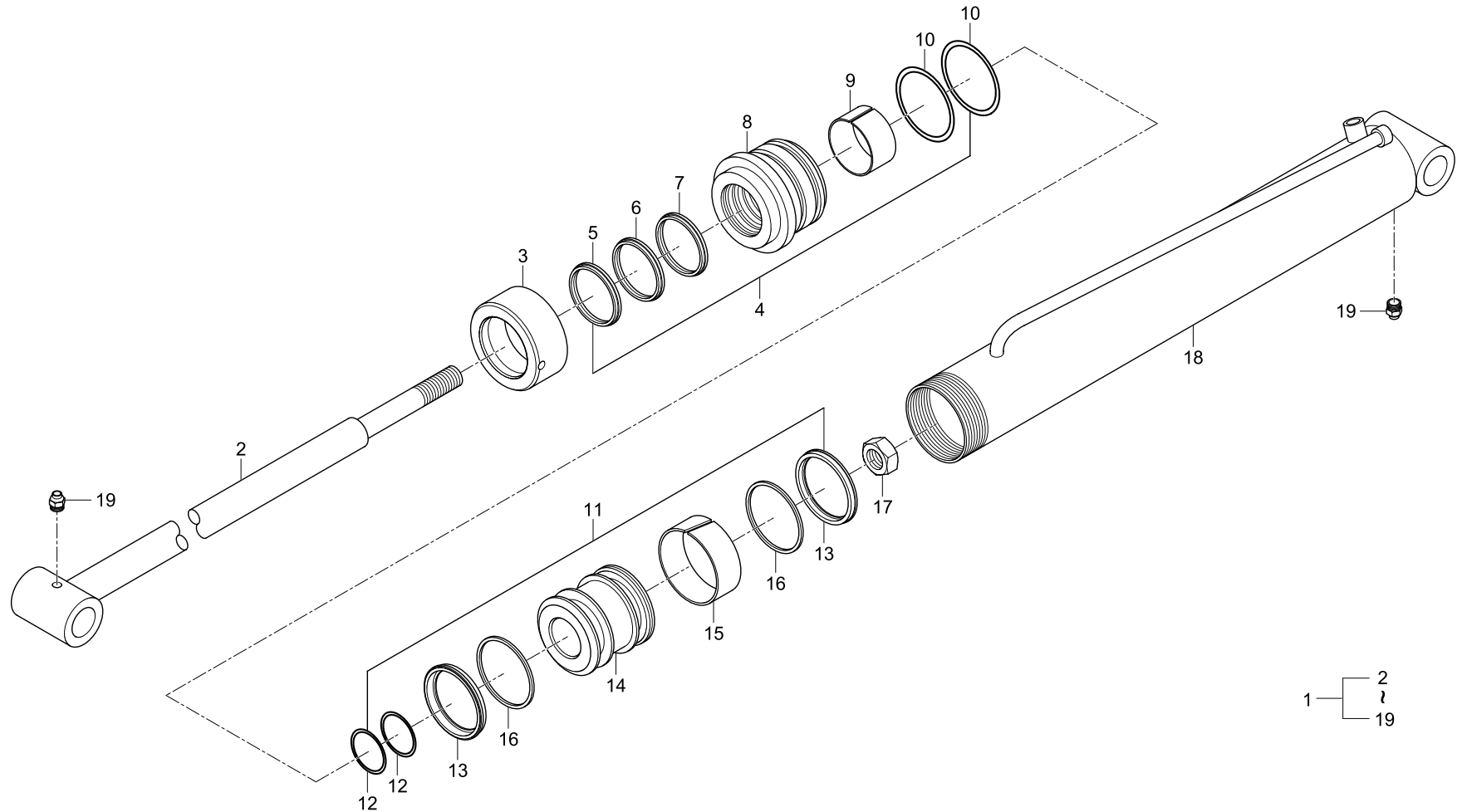
# 13.12 HOSE FITTING ASSEMBLY

UPDATED(02.12.2007)





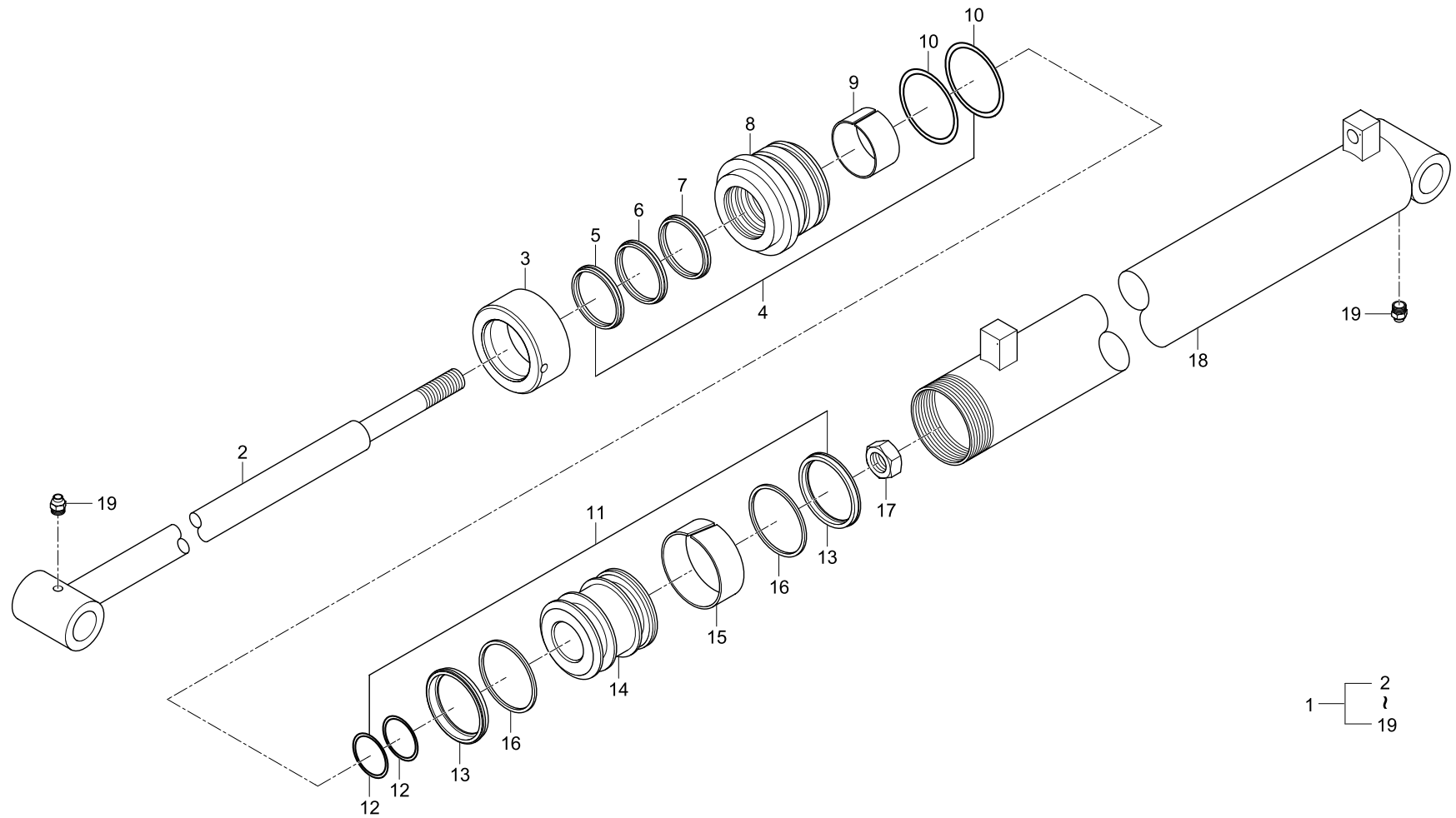
# 13.13 BUCKET CYLINDER ASSEMBLY





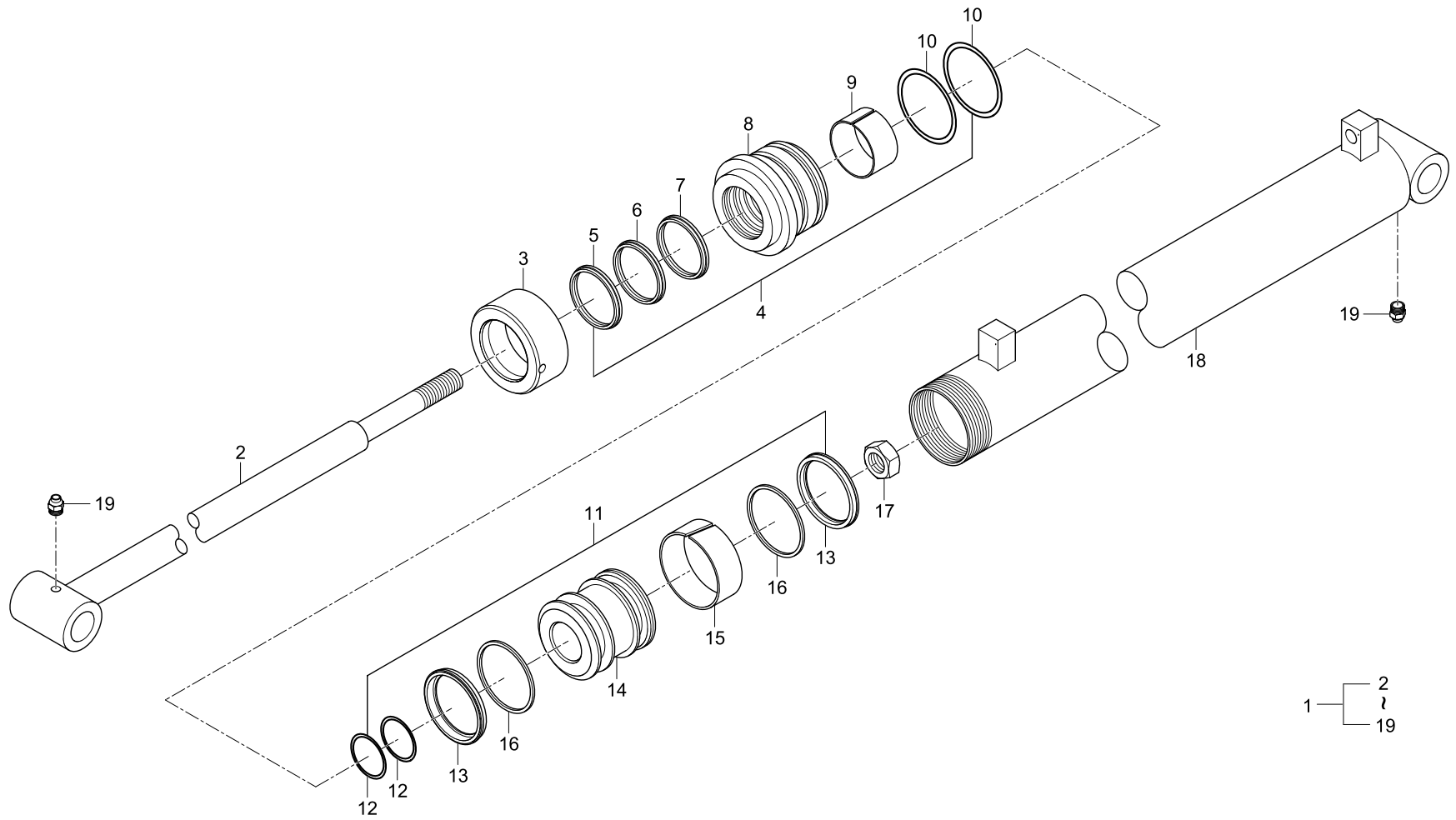
REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	BH16-0100	Bucket Cylinder Ass'y(No 2~19)	1	←	
1	BH16-0100-A	Bucket Cylinder Ass'y(No 2~19)	1	└─┘	40211121~
1	BH16-0100-B	Bucket Cylinder Ass'y(No 2~19)	1	└─┘	51027001~
2	BH16-0101	Rod Ass'y, ø35	1	←	
2	BH16-0101-A	Rod Ass'y, ø35	1	└─┘	40211121~
3	BH15-0102	Cover	1		
4	BH15-0100-P	Seal Kit, Head(No 5~10)	1		
5	5000-M701	Dust Seal, 35*43*5/6.5	1		
6	5001-M701	Retainer(Rubber), 35*45*6	1		
7	5002-M701	Retainer(Urethane), 35*45*6	1		
8	BH15-0103	Head	1		
9	5003-M701	Du Bush, 35*20	1		
10	5003-0055	O-Ring, G55	2		
11	BH15-0200-P	Seal Kit, Piston(No 12~16)	1		
12	5004-M701	O-Ring(LBG-20), 27.4*3.1t	2		
13	5005-MA01	Retainer, 50*60*6	2		
14	BH15-0104	Piston	1		
15	5006-MB01	Packing Bush, 55*60*15	1		
16	5007-MA01	Backup Ring, 50*60*3	2		
17	1202-0AA3	Hex Head Nut, 1"-8UNC	1	←	
17	1202-0AA3-A	Hex Head Nut, 1"-14UNF	1	└─┘	40211121~
18	BH16-0105	Tube Ass'y, 60*70*5	1	←	
18	BH16-0105-A	Tube Ass'y, 60*70*5	1	└─┘	51027001~
19	4001-0001	Grease Nipple, PT 1/8"	2		

# 13.14 BOOM CYLINDER ASSEMBLY



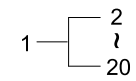
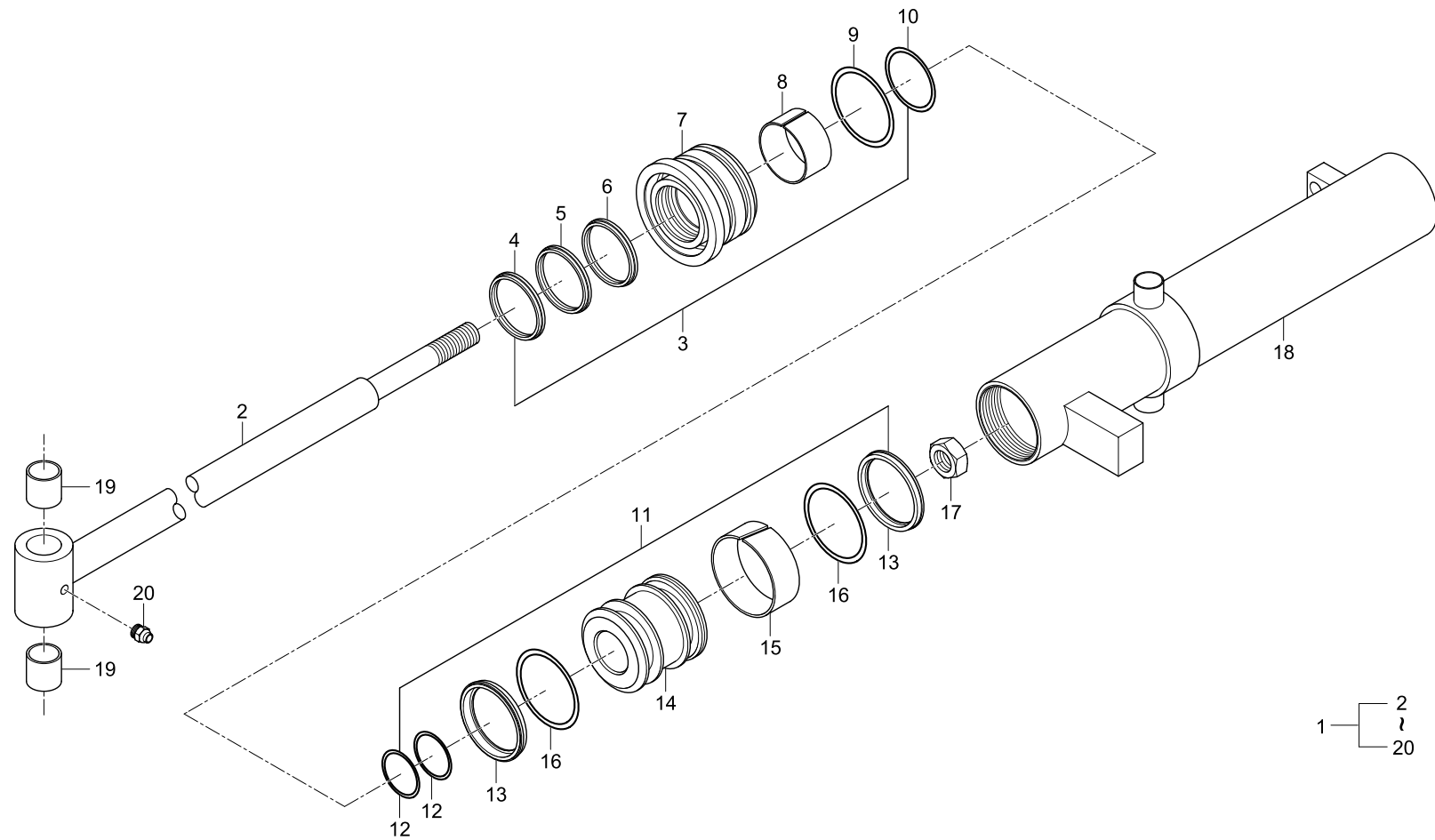
REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	BH14-0100	Boom Cylinder Ass'y(No 2~19)	1	←	
1	BH14-0100-A	Boom Cylinder Ass'y(No 2~19)	1	└─┘	40211121~
1	BH14-0100-B	Boom Cylinder Ass'y(No 2~19)	1	└─┘	51027001~
2	BH14-0101	Rod Ass'y, $\varnothing 40$	1	←	
2	BH14-0101-A	Rod Ass'y, $\varnothing 40$	1	└─┘	40211121~
3	BH14-0102	Cover	1		
4	BH14-0100-P	Seal Kit, Head(No 5~10)	1		
5	5000-M801	Dust Seal, 40*48*5/6.5	1		
6	5001-M801	Retainer(Rubber), 40*50*6	1		
7	5002-M801	Retainer(Urethane), 40*50*6	1		
8	BH14-0103	Head	1		
9	5003-M801	Du Bush, 40*20	1		
10	5003-0065	O-Ring, G65	2		
11	BH14-0200-P	Seal Kit, Piston(No 12~16)	1		
12	5004-M701	O-Ring(LBG-20), 27.4*3.1t	2		
13	5005-MC01	Retainer, 60*70*6	2		
14	BH14-0104	Piston	1		
15	5006-MD01	Packing Bush, 65*70*15	1		
16	5007-MC01	Backup Ring, 60*70*3	2		
17	1202-0AA3	Hex Head Nut, 1"-8UNC	1	←	
17	1202-0AA3-A	Hex Head Nut, 1"-14UNF	1	└─┘	40211121~
18	BH14-0105	Tube Ass'y, 70*80*5	1	←	
18	BH14-0105-A	Tube Ass'y, 70*80*5	1	└─┘	51027001~
19	4001-0001	Grease Nipple, PT 1/8"	2		

# 13.15 DIPPERSTICK CYLINDER ASSEMBLY



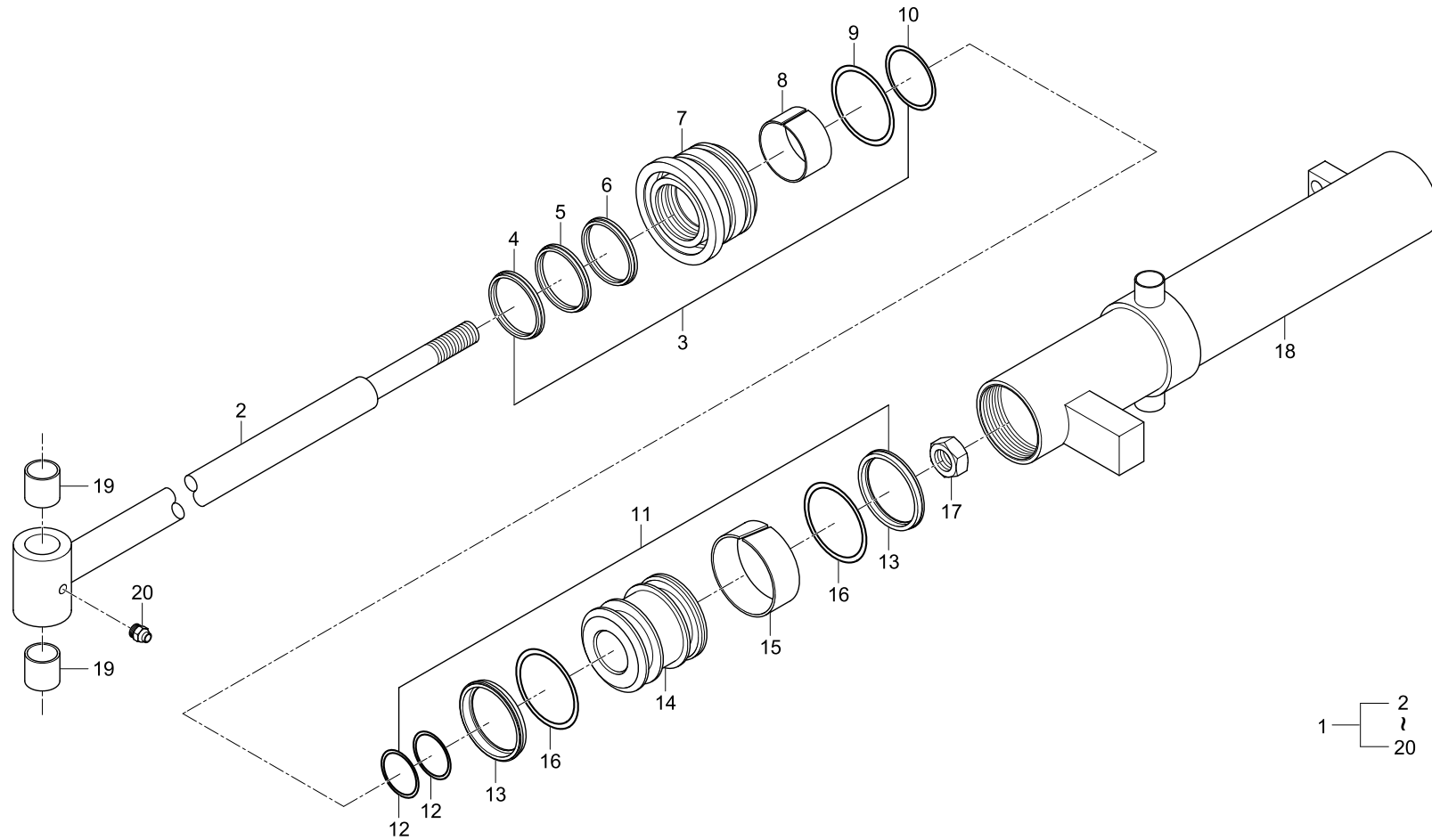
REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	BH15-0100	Dipperstick Cylinder Ass'y(No 2~19)	1	←	
1	BH15-0100-A	Dipperstick Cylinder Ass'y(No 2~19)	1	└─┘	40211121~
1	BH15-0100-B	Dipperstick Cylinder Ass'y(No 2~19)	1	└─┘	51027001~
2	BH15-0101	Rod Ass'y, ø35	1	←	
2	BH15-0101-A	Rod Ass'y, ø35	1	└─┘	40211121~
3	BH15-0102	Cover	1		
4	BH15-0100-P	Seal Kit, Head(No 5~10)	1		
5	5000-M701	Dust Seal, 35*43*5/6.5	1		
6	5001-M701	Retainer(Rubber), 35*45*6	1		
7	5002-M701	Retainer(Urethane), 35*45*6	1		
8	BH15-0103	Head	1		
9	5003-M701	Du Bush, 35*20	1		
10	5003-0055	O-Ring, G55	2		
11	BH15-0200-P	Seal Kit, Piston(No 12~16)	1		
12	5004-M701	O-Ring(LBG-20), 27.4*3.1t	2		
13	5005-MA01	Retainer, 50*60*6	2		
14	BH15-0104	Piston	1		
15	5006-MB01	Packing Bush, 55*60*15	1		
16	5007-MA01	Backup Ring, 50*60*3	2		
17	1202-0AA3	Hex Head Nut, 1"-8UNC	1	←	
17	1202-0AA3-A	Hex Head Nut, 1"-14UNF	1	└─┘	40211121~
18	BH15-0105	Tube Ass'y, 60*70*5	1	←	
18	BH15-0105-A	Tube Ass'y, 60*70*5	1	└─┘	51027001~
19	4001-0001	Grease Nipple, PT 1/8"	2		

# 13.16 SWING CYLINDER ASSEMBLY



REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	BH18-0100	Swing Cylinder Ass'y(No 2~20)	2	←	
1	BH18-0100-A	Swing Cylinder Ass'y(No 2~20)	2	└─┘	40211121~
1	BD18-0100-B	Swing Cylinder Ass'y(No 2~20)	2	└─┘	51027001~ P/No.Rev 04.28.2004
2	BH18-0101	Rod Ass'y, ø35	2	←	
2	BH18-0101-A	Rod Ass'y, ø35	2	└─┘	
2	BD18-0101-A	Rod Ass'y, ø35	2	└─┘	40211121~ P/No.Rev 04.28.2004
3	BH18-0100-P	Seal Kit, Head(No 4~10)	2		
4	5000-M701	Dust Seal, 35*43*5/6.5	2		
5	5001-M701	Retainer(Rubber), 35*45*6	2		
6	5002-M701	Retainer(Urethane), 35*45*6	2		
7	BH18-0102	Head	2		
8	5003-M701	Du Bush, 35*20	2		
9	5003-0060	O-Ring, G60	2		
10	5003-0055	O-Ring, G55	2		
11	BH18-0200-P	Seal Kit, Piston(No 12~16)	2		
12	5004-M701	O-Ring(LBG-20), 27.4*3.1t	4		
13	5005-MA01	Retainer, 50*60*6	4		
14	BH18-0103	Piston	2		
15	5006-MB01	Packing Bush, 55*60*15	2		
16	5007-MA01	Backup Ring, 50*60*3	4		
17	1202-0AA3	Hex Head Nut, 1"-8UNC	2	←	
17	1202-0AA3-A	Hex Head Nut, 1"-14UNF	2	└─┘	40211121~
18	BH18-0104	Tube Ass'y, 60*70*5	2	←	
18	BD18-0104	Tube Ass'y, 60*70*5	2	└─┘	51027001~ P/No.Rev 04.28.2004
19	5003-M501	Du Bush, 25*20	4		

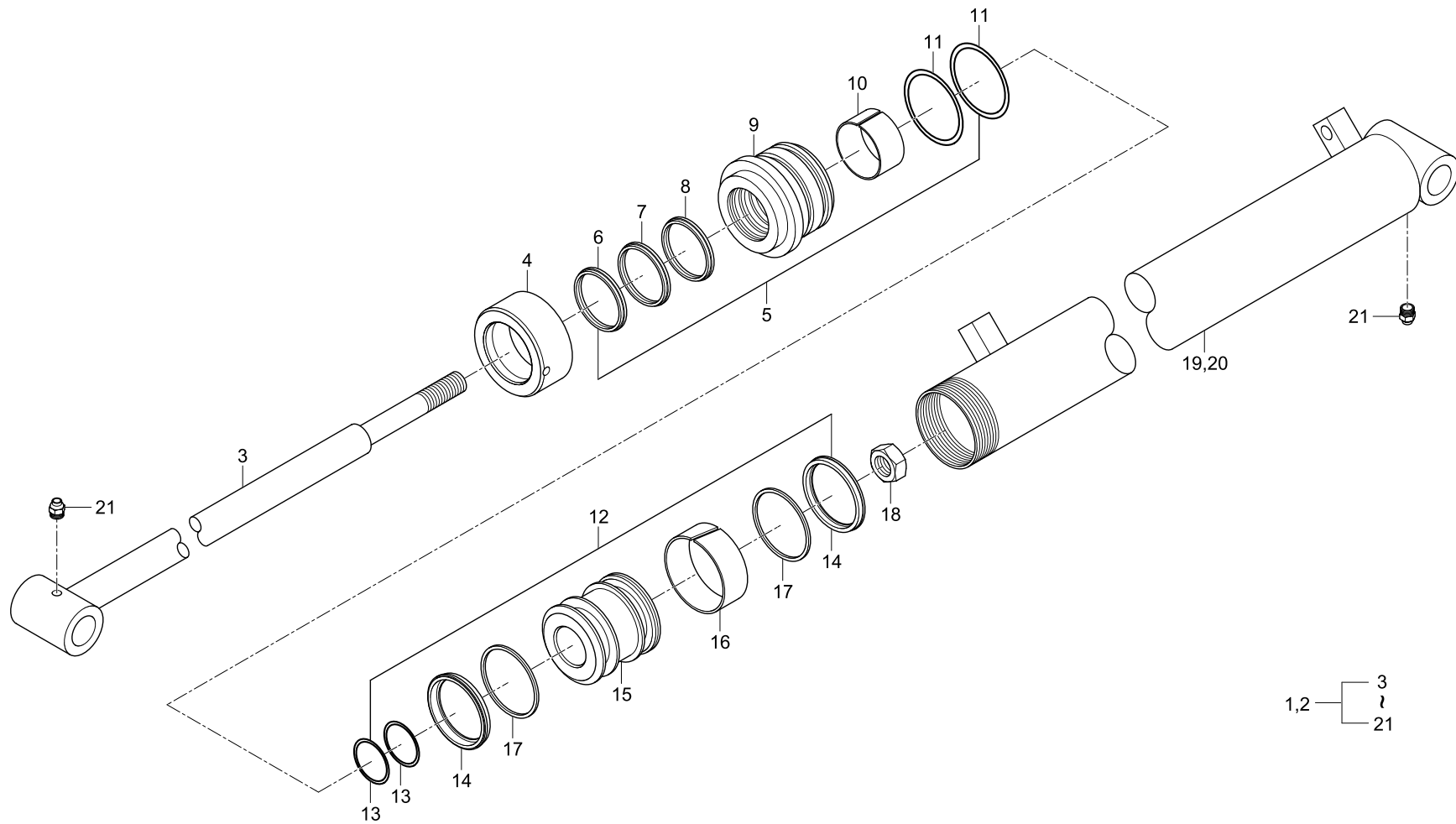
# 13.16 SWING CYLINDER ASSEMBLY





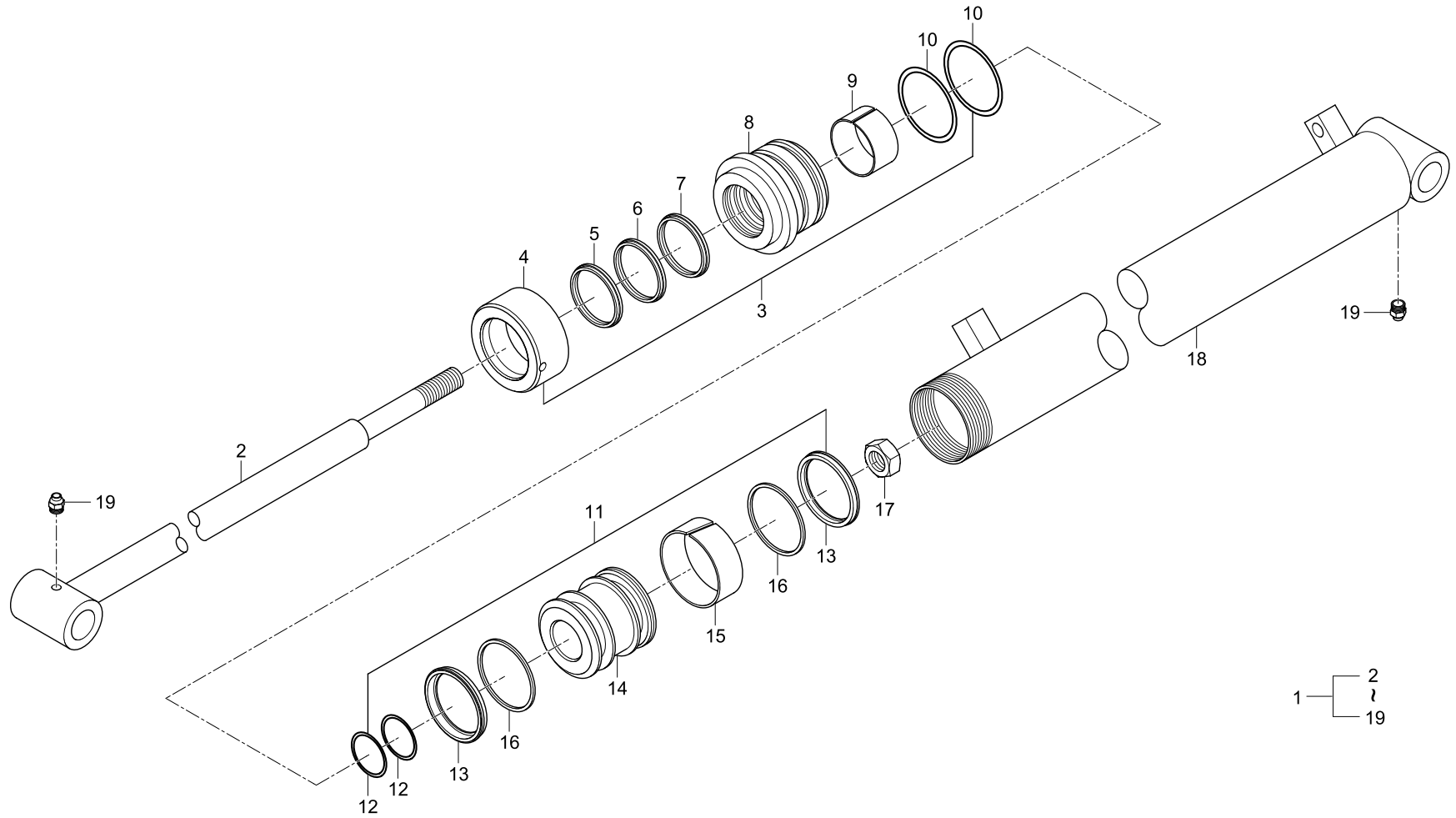


# 13.17 STABILIZER CYLINDER ASSEMBLY



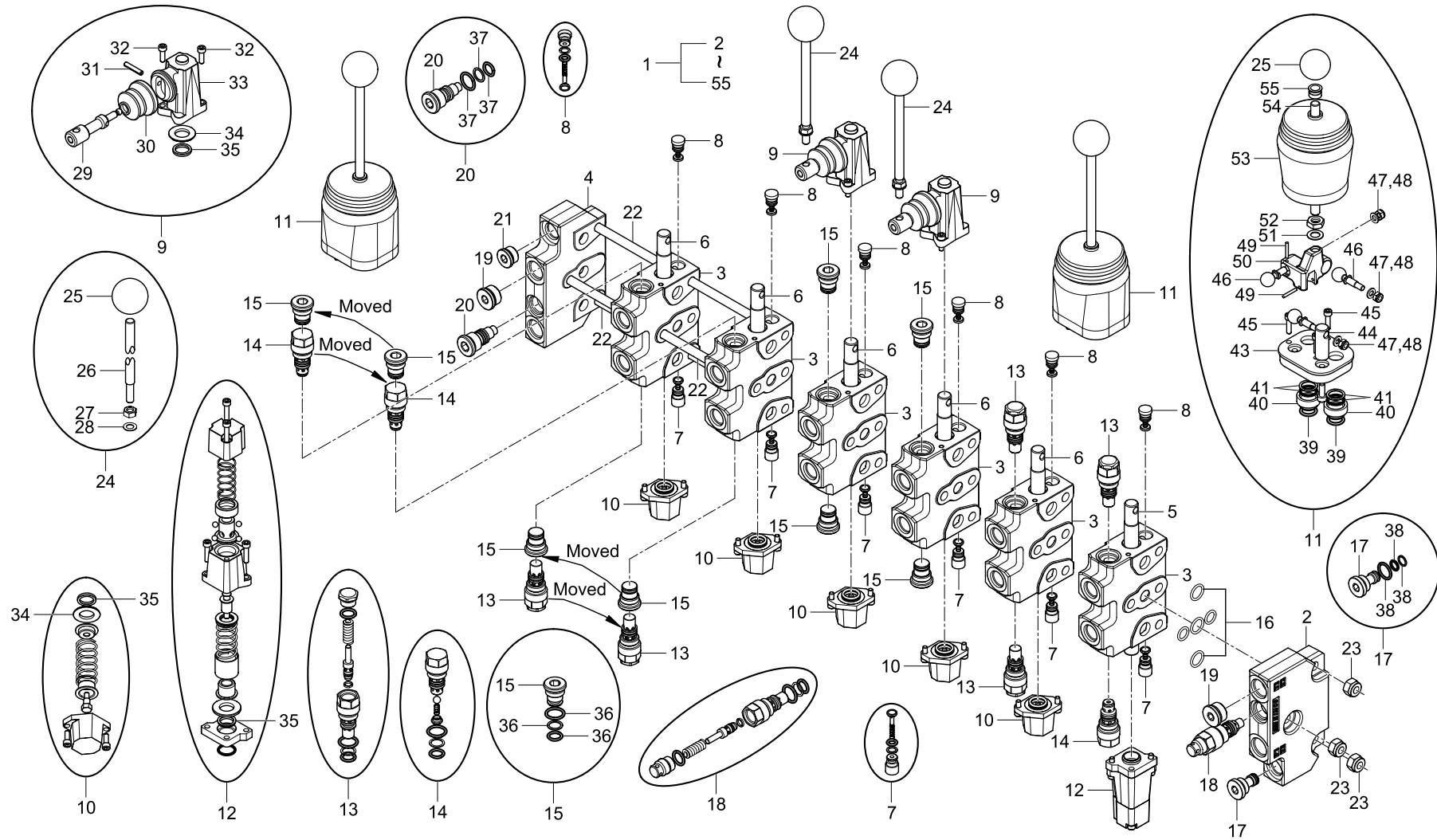
REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	BH17-0100L	Stabilizer Cylinder Ass'y LH(No 3~21)	1	←	
1	BH17-0100L-A	Stabilizer Cylinder Ass'y LH(No 3~21)	1	└─┘	40211121~
1	BH17-0100L-B	Stabilizer Cylinder Ass'y LH(No 3~21)	1	└─┘	51027001~
2	BH17-0100R	Stabilizer Cylinder Ass'y RH(No 3~21)	1	←	
2	BH17-0100R-A	Stabilizer Cylinder Ass'y RH(No 3~21)	1	└─┘	40211121~
2	BH17-0100R-B	Stabilizer Cylinder Ass'y RH(No 3~21)	1	└─┘	51027001~
3	BH17-0101	Rod Ass'y, ø35	2	←	
3	BH17-0101-A	Rod Ass'y, ø35	2	└─┘	40211121~
4	BH15-0102	Cover	2		
5	BH15-0100-P	Seal Kit, Head(No 6~11)	2		
6	5000-M701	Dust Seal, 35*43*5/6.5	2		
7	5001-M701	Retainer(Rubber), 35*45*6	2		
8	5002-M701	Retainer(Urethane), 35*45*6	2		
9	BH15-0103	Head	2		
10	5003-M701	Du Bush, 35*20	2		
11	5003-0055	O-Ring, G55	4		
12	BH15-0200-P	Seal Kit, Piston(No 13~17)	2		
13	5004-M701	O-Ring(LBG-20), 27.4*3.1t	4		
14	5005-MA01	Retainer, 50*60*6	4		
15	BH15-0104	Piston	2		
16	5006-MB01	Packing Bush, 55*60*15	2		
17	5007-MA01	Backup Ring, 50*60*3	4		
18	1202-0AA3	Hex Head Nut, 1"-8UNC	2	←	
18	1202-0AA3-A	Hex Head Nut, 1"-14UNF	2	└─┘	40211121~

# 13.17 STABILIZER CYLINDER ASSEMBLY



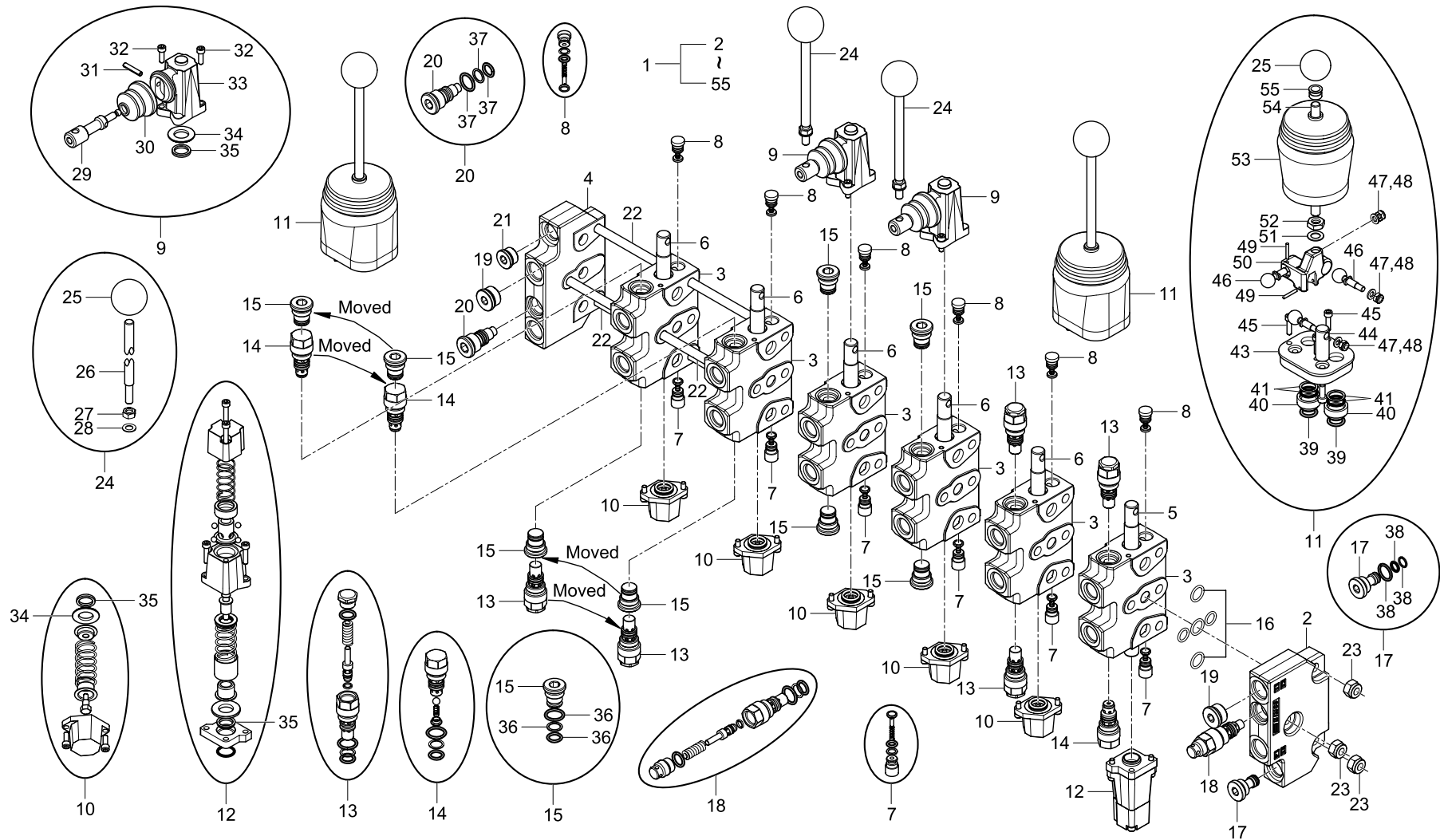


# 13.18 CONTROL VALVE (NIMCO CV-556)



REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	BC01-0100-P	Control Valve Ass'y(No 2~55)	1		
2	BC01-0100	Inlet Body	1		
3	BC01-0200	Work Section Body	6		
4	BC01-0300	Outlet Body	1		
5	BC01-0400	Float Spool	1		
6	BC01-0500	Double Acting Spool	5		
7	BC01-0600	Load Hold Check A-Side Ass'y	6		
8	BC01-0700	Load Hold Check B-Side Ass'y	6		
9	BC01-0800	Enclosed Lever S5 Ass'y	2		
10	BC01-0900	Spool Control 9 Ass'y	5		
11	BC01-1000R	Mech. Joystick Ass'y	1		
11	BC01-1000L	Mech. Joystick Ass'y	1		
12	BC01-1100	Spool Control 11 Ass'y	1		
13	BC01-1200	Port Relief Valve Ass'y	4		
14	BC01-1300	Anti Cav. Valve Ass'y	2		
15	BC01-1400	Port Relief Cav. Plug Ass'y	6		
16	BC01-1500	Section Sealings	7		
17	BC01-1600	Unload Cav. Plug Ass'y	1		
18	BC01-1700	Main Relief Valve Ass'y	1		
19	BC01-1800	SAE #10 Plug	2		
20	BC01-1900	Main Relief Cav. Plug Ass'y	1		
21	BC01-2000	SAE #8 Plug	1		
22	BC01-2100	Tie Rods	3		
23	BC01-2200	Tie Rods Locking Nuts	3		
24	BC01-2300	Hand Lever	2		

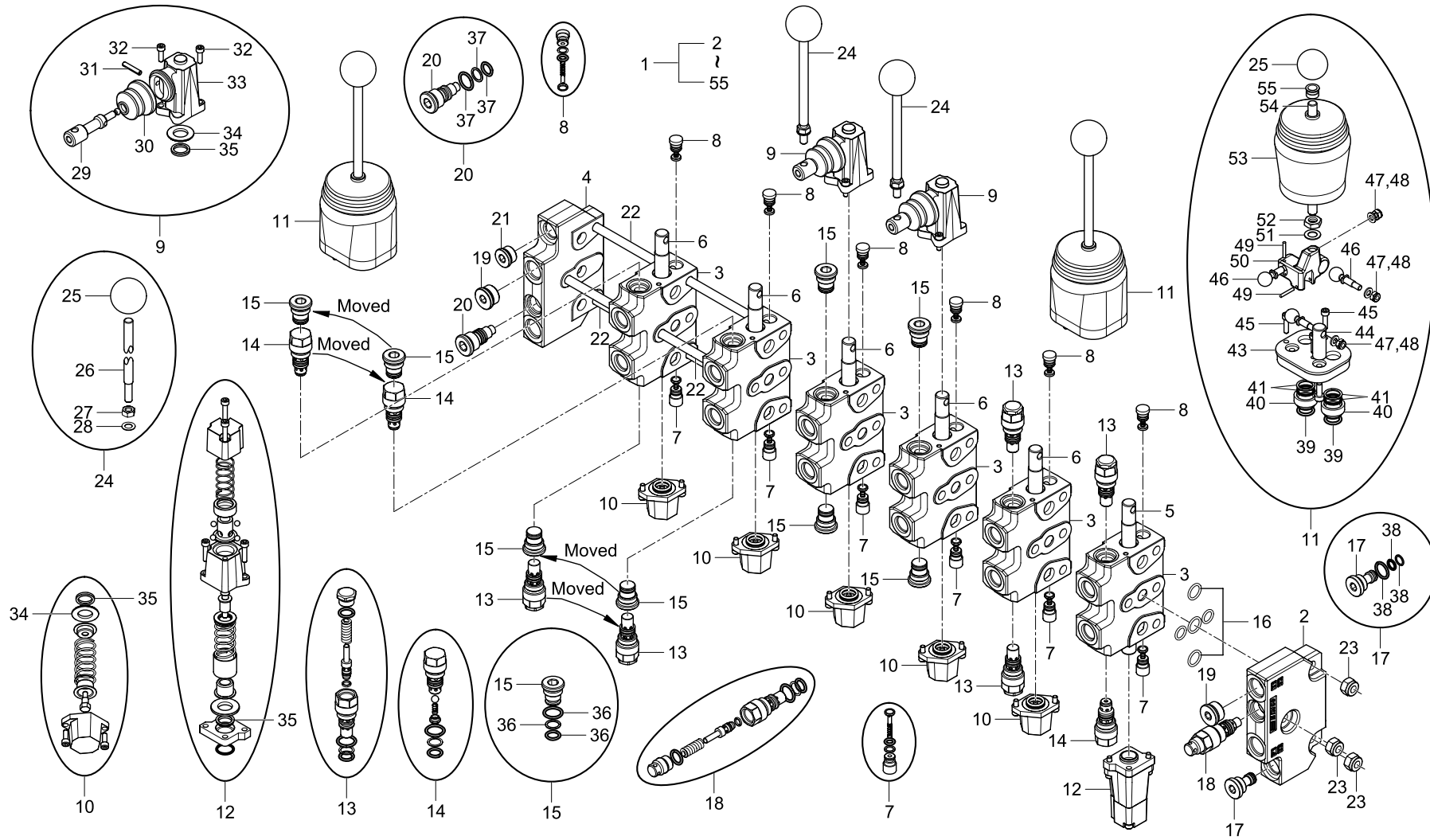
# 13.18 CONTROL VALVE (NIMCO CV-556)





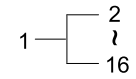
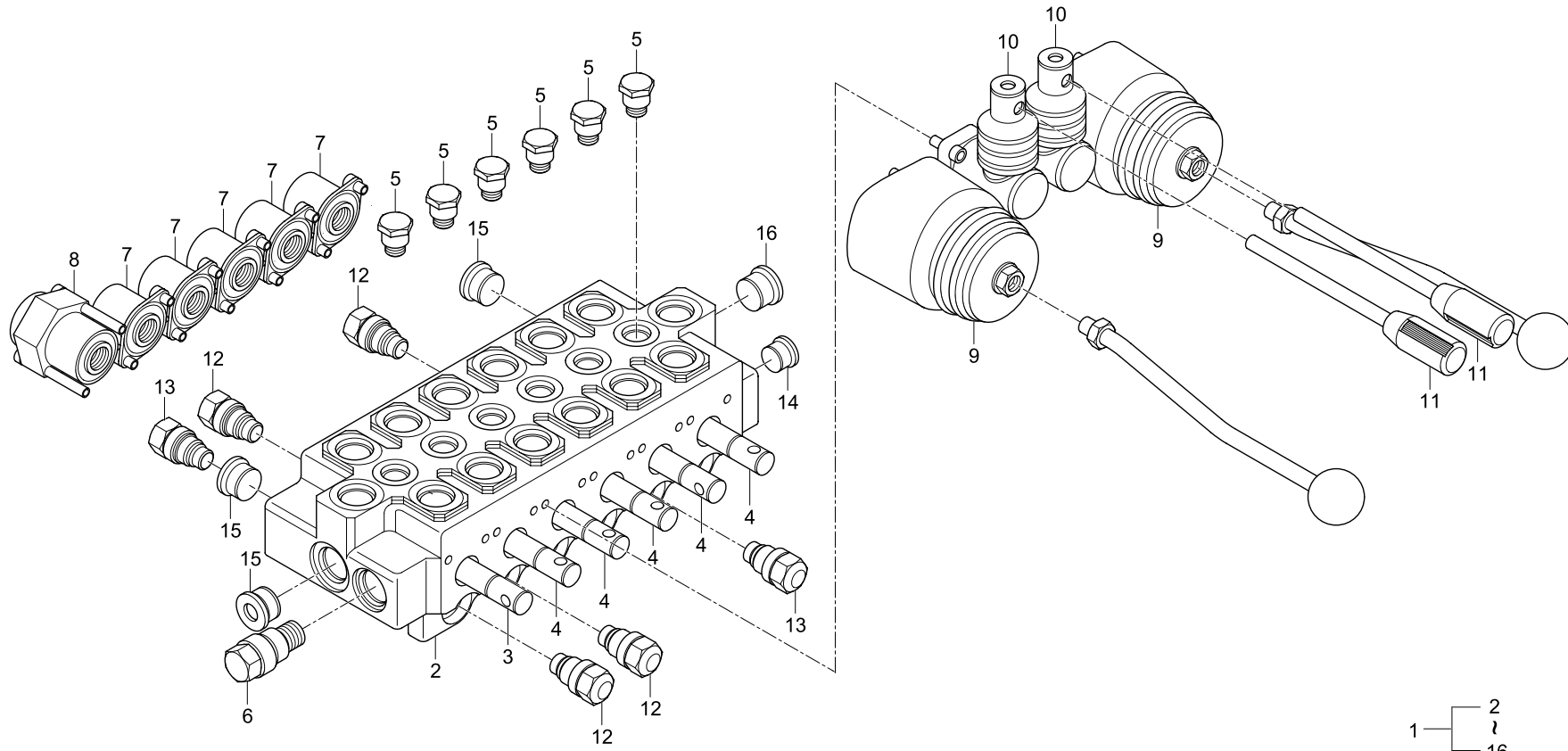
REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
25	BC01-2400	Plastic Ball, $\phi$ 40	4		
26	BC01-2500	Lever Stick, L=160	2		
26	BC01-2500-A	Lever Stick, L=160	2		40715001~
27	1002-0831	Nut, M8-1.25P	2		
27	1002-1051	Nut, M10-1.5P	2		40715001~
28	1004-0010	Washer Flat, $\phi$ 10	2		
29	BC01-0801	Link Pin	2		
30	BC01-0802	Rubber Boot	2		
31	1008-3005	Spring Pin, $\phi$ 5	2		
32	1302-0513	Socket Head Bolt, M5-0.8P 15L	4		
33	BC01-0803	Housing	2		
34	BC01-0804	Washer	7		
35	BC01-1001	Spool Sealing	8		
36	BC01-1400-P	Port Relief Cav. Plug Seal Kit	6		
37	BC01-1900-P	Main Relief Cav. Plug Seal Kit	1		
38	BC01-1600-P	Unload Cav. Plug Seal Kit	1		
39	1000-0000	O-ring, 17.1x1.6-70	4		
40	BC01-1011	Guidence	4		
41	BC01-1000-P	Mech. Joystick Seal Kit	2		
42	1302-0623	Socket Head Bolt, M6-1.0P 15L	2		
43	BC01-1002	Base Plate (Right & Left)	2		
44	BC01-1003	Joint Foundation Pin	2		
45	1302-0514	Socket Head Bolt, M5-0.8P 20L	6		
46	BC01-1004	Ball Screw	6		
47	1002-0621	Nut, M6-1.0P	6		

# 13.18 CONTROL VALVE (NIMCO CV-556)



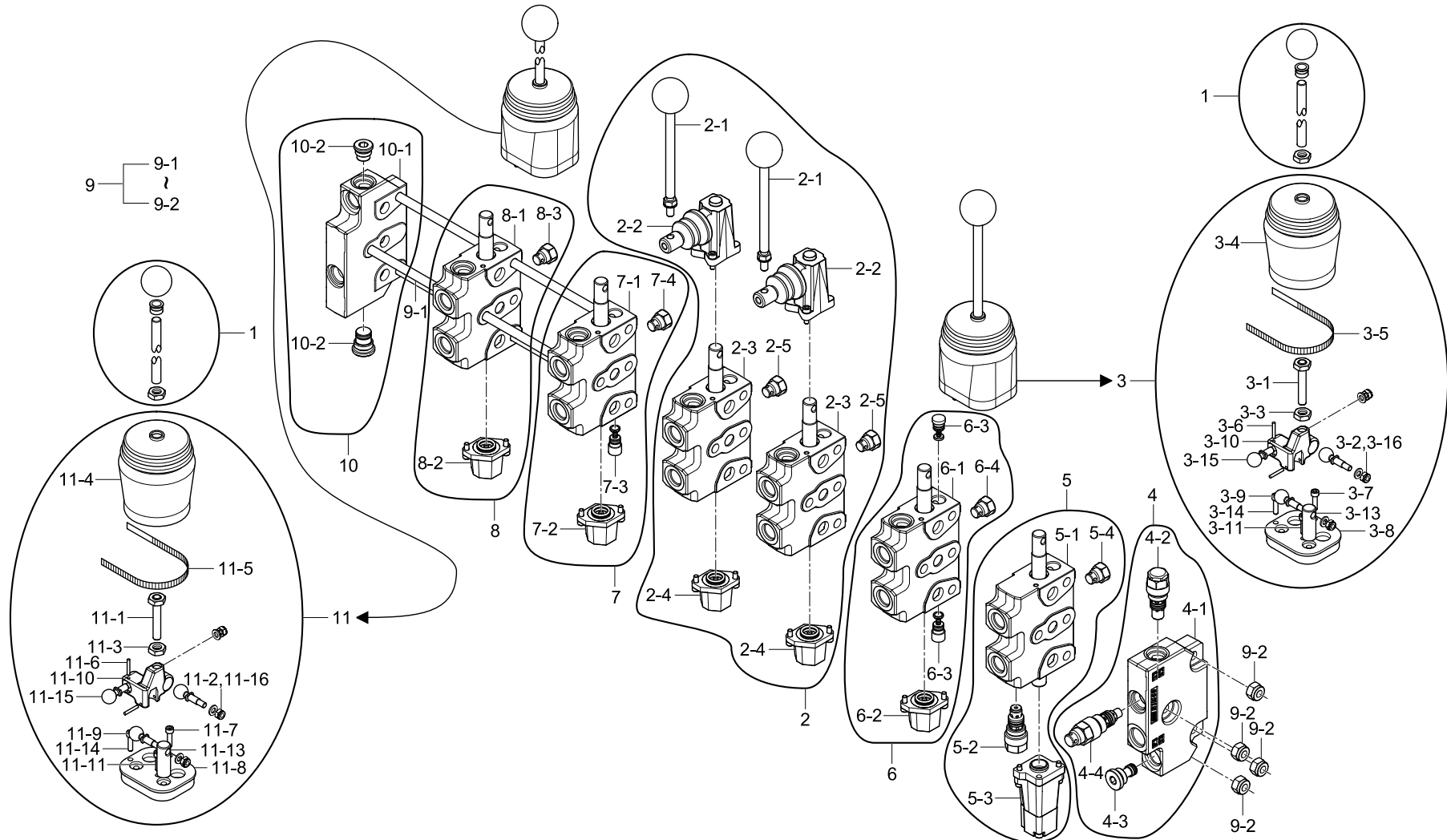


# 13.19 CONTROL VALVE ASSEMBLY (NIMCO MONO BLOCK CV126)



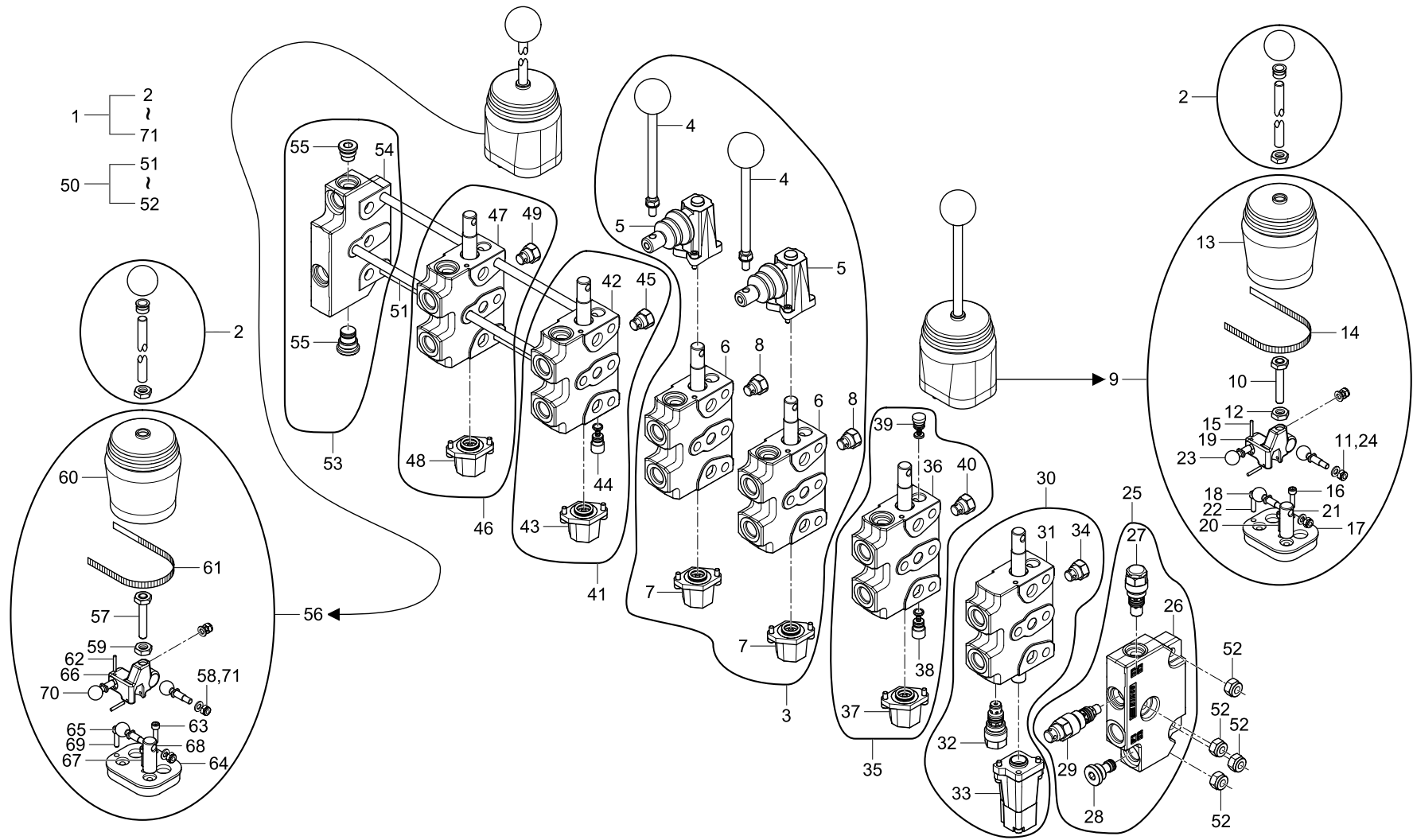


# 13.20 CONTROL VALVE ASSEMBLY (DINOIL DNC65/6)



REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
	BC03-0000-P	Control Valve Ass'y	1		
1	BC03-0100	Lever Kit M10x250mm 23" Bended at 85MM	2		
2	BC03-0200	Element DNC65 3/4-16SAE A1 Vlab Tapp	2		
2-1	BC03-0201	Lever Kit M10x210mm	2		
2-2	BC03-0202	Kit Housing Lever Dinoil P.40-42 2Hole out center	2		
2-3	BC03-0203	Element DNC65 3/4 SAE with Auxiliary Cartridge Manufa	2		
2-4	BC03-0204	Aluminum End Cap of Spool Control	2		
2-5	BC03-0205	No Return Cartridge for DNC 40-50-65	2		
3	BC03-0300	Joystick for DNC65 P.40	1		
3-1	BC03-0301	Connector for Joystick	1		
3-2	BC03-0302	Groover Washer D8 ZN	3		
3-3	BC03-0303	Nut M12 Low Uni 5589 ZN	1		
3-4	BC03-0304	Hood for Joystick +	1		
3-5	BC03-0305	Cable Tie, Plastic	1		
3-6	BC03-0306	Tapered Screw 8x16 Uni 5933 ZNC	2		
3-7	BC03-0307	Drawing Screw M8x16 Head D.11	1		
3-8	BC03-0308	Joystick Plate P.40 with Pivot Up-left	1		
3-9	BC03-0309	Pin for Joystick Pivot	1		
3-10	BC03-0310	Triangular Plate for DNC120	1		
3-11	BC03-0311	Screw Te 6x10 Uni 5737 8.8 ZNC	1		
3-12	BC03-0312	Appendix for Joystick	1		
3-13	BC03-0313	Rod End Connector, Swivel, Joystick M8	3		
3-14	BC03-0314	Screw Tcce 6x10 Uni 5931 8.8 ZNC	1		
3-15	BC03-0315	Long Pivot without Segger	1		
3-16	BC03-0316	Nut M8 Low Uni 5589 ZN	3		

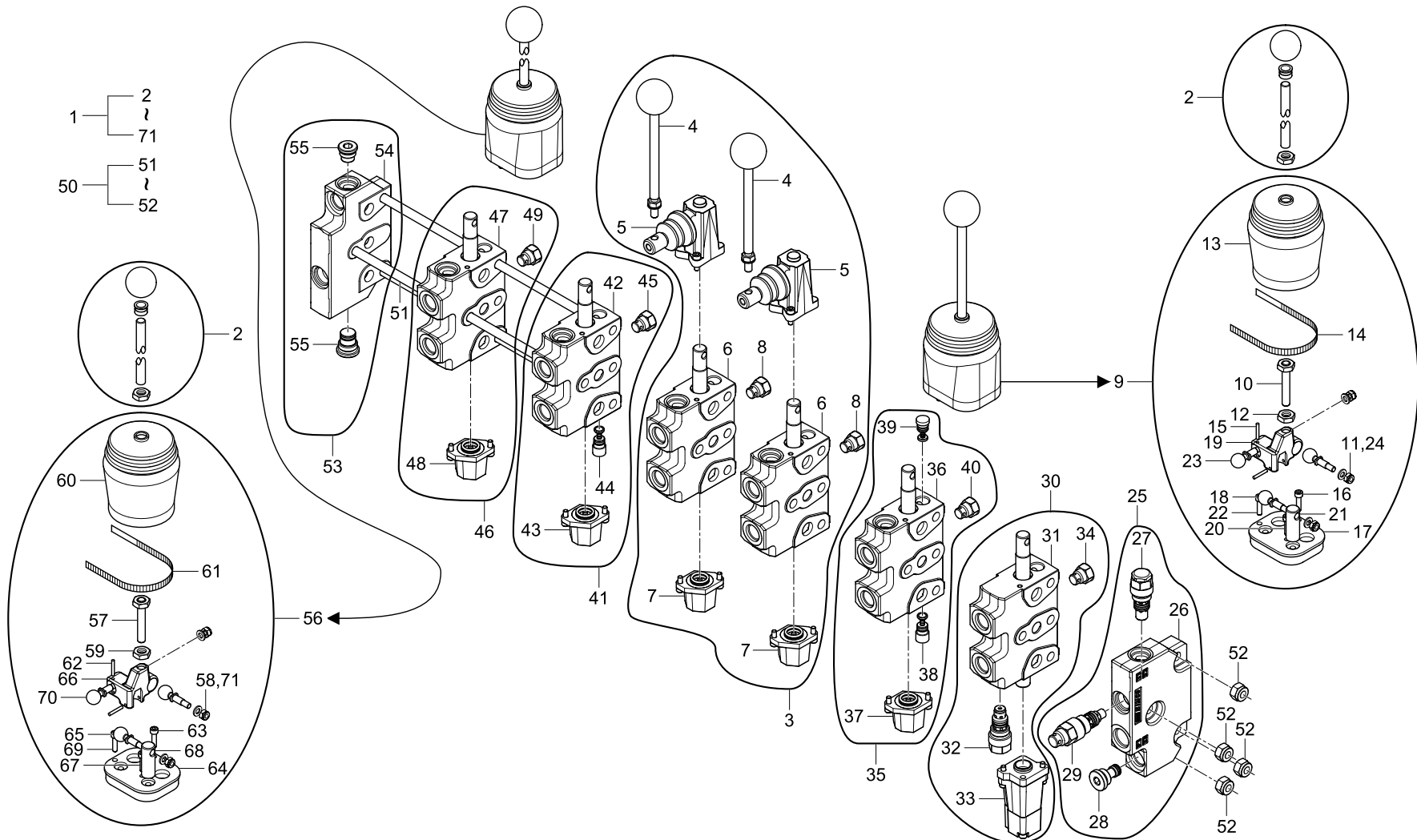
# 13.20 CONTROL VALVE ASSEMBLY (DINOIL DNC65/6)





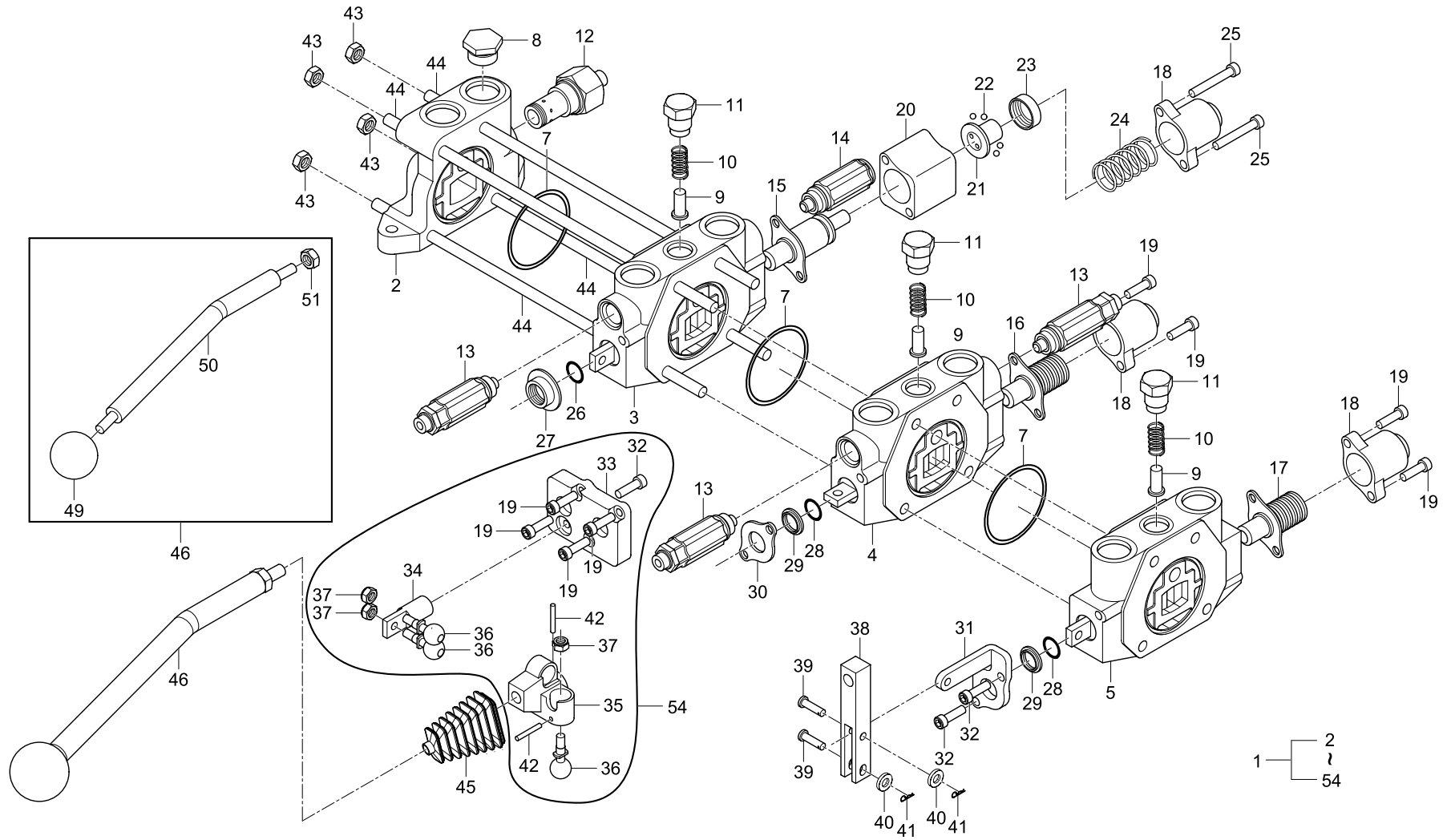
REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
3-17	BC03-0317	Pivot Without Segger	1		
4	BC03-0400	Inlet Cover Dnc65 1/2 G Z(150) With Socket For P1	1		
4-1	BC03-0401	Body Of Inlet Cover Dnc50 P On Up. P On Side. Plugged	1		
4-2	BC03-0402	Grain Relief Max Pressure Cartridge(set. 150)	1		
4-3	BC03-0403	Plug Replacing Relief Valve	1		
4-4	BC03-0404	Socket for Upper P 7/8-14sae	1		
5	BC03-0500	Element Dnc65 3/4-16sae N7 VCAVLB(170) without Housing	1		
5-1	BC03-0501	Body of Element DNC65 N7 3/4-16 SAE	1		
5-2	BC03-0502	Pressure Limiter Cartridge DNC50(set. 170)	1		
5-3	BC03-0503	Aluminum End Cap of Spool Control	1		
5-4	BC03-0504	No Return Cartridge for DNC 40-50-65	1		
6	BC03-0600	Element DNC65 3/4-16SAE A1VLAB(150) without Housing Lever	1		
6-1	BC03-0601	Element Dnc65 3/4SAE with Auxiliary Cartridge Manufa	1		
6-2	BC03-0602	Aluminum End Cap of Spool Control	1		
6-3	BC03-0603	Relief, Work Port VLF 150 Bar	2		
6-4	BC03-0604	No Return Cartridge for DNC 40-50-65	1		
7	BC03-0700	Element Dnc65 3/4-16SAE A1VCAVLB(170) Without Housing	1		
7-1	BC03-0701	Element Dnc65 3/4sae with Auxiliary Cartridge Manufa	1		
7-2	BC03-0702	Aluminum End Cap Of Spool Control	1		
7-3	BC03-0703	Cartridge VLF DNC50(set. 170)	1		
7-4	BC03-0704	No Return Cartridge for Dnc 40-50-65	1		
8	BC03-0800	Element DNC65 3/4-16SAE A1 Vlab Plugged without Housing	1		
8-1	BC03-0801	Element DNC65 3/4SAE with Auxiliary Cartridge Manufa	1		
8-2	BC03-0802	Aluminum End Cap of Spool Control	1		
8-3	BC03-0803	No Return Cartridge for DNC 40-50-65	1		

# 13.20 CONTROL VALVE ASSEMBLY (DINOIL DNC65/6)

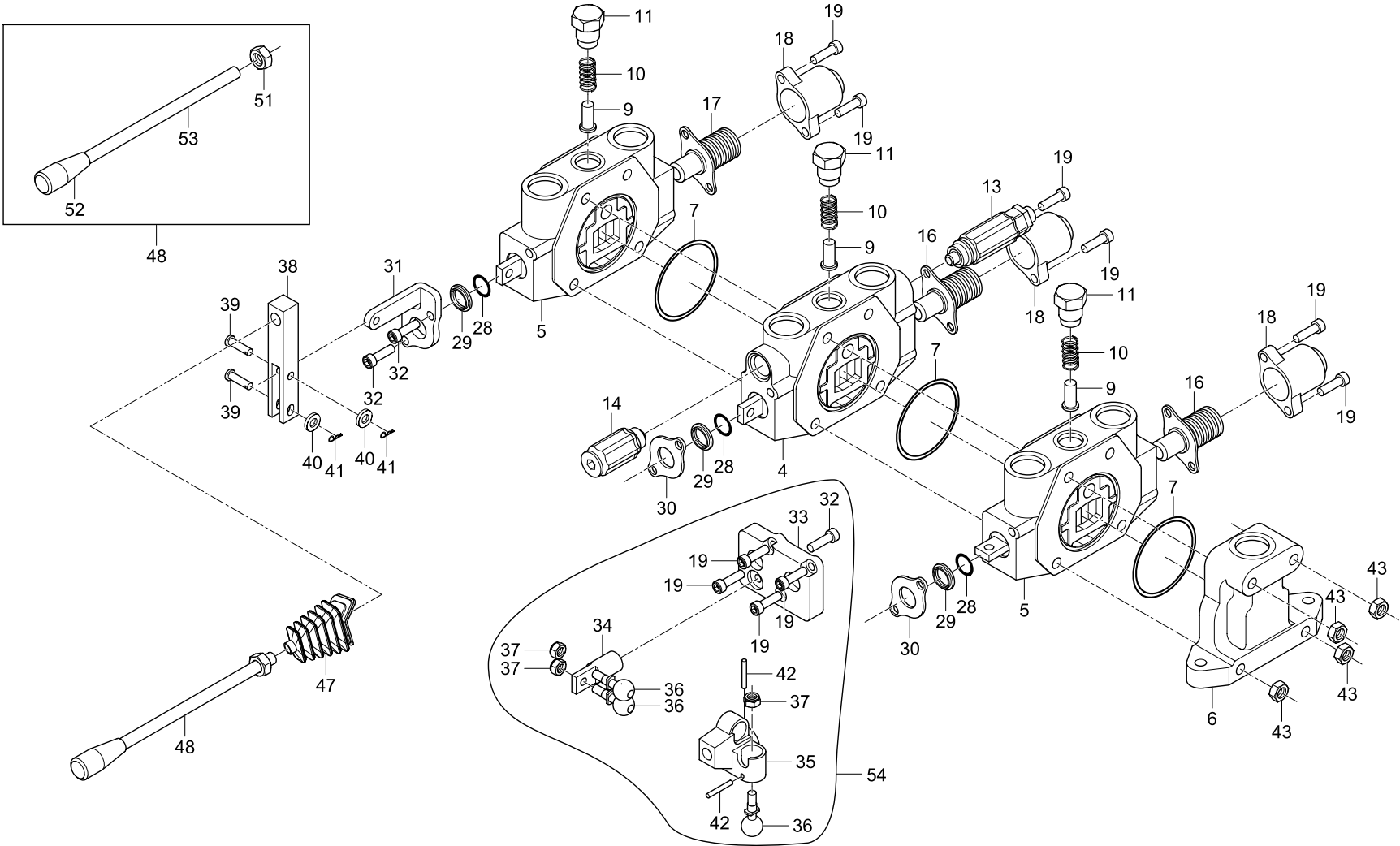


REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
9	BC03-0900	KIT 4 Tie-rod L.334MM Nut&Short M8	1		
9-1	BC03-0901	KIT Tie-rod L.334MM with Nut M8	4		
9-2	BC03-0902	Nut M8 High Uni 5587 Class 8.8 ZN	4		
10	BC03-1000	Outlet Cover DNC65 7/8-14SAE Tt1. T Plugged	1		
10-1	BC03-1001	Body of Outlet Cover DNC65 7/8SAE Manufacturing	1		
10-2	BC03-1002	Assembly Plug Outlet Cover DNC65	2		
11	BC03-1100	Joystick Kit P.40	1		
11-1	BC03-0301	Connector for Joystick	1		
11-2	BC03-0302	Groover Washer D8 ZN	3		
11-3	BC03-0303	Nut M12 Low Uni 5589 ZN	1		
11-4	BC03-0304	Hood for Joystick +	1		
11-5	BC03-0305	Cable Tie, Plastic	1		
11-6	BC03-0306	Tapered Screw 8x16 Uni 5933 ZNC	2		
11-7	BC03-0307	Drawing Screw M8x16 Head D.11	1		
11-8	BC03-1101	Plate Hood Holder	1		
11-9	BC03-1102	Short Pivot with Segger	1		
11-10	BC03-1103	Plate Sphere Pivot Holder	1		
11-11	BC03-0311	Screw Te 6x10 Uni 5737 8.8 ZNC	1		
11-12	BC03-0312	Appendix for Joystick	1		
11-13	BC03-0313	Rod End Connector, Swivel, Joystick M8	3		
11-14	BC03-0314	Screw Tcce 6x10 Uni 5931 8.8 ZNC	1		
11-15	BC03-0315	Long Pivot Without Segger	1		
11-16	BC03-0316	Nut M8 Low Uni 5589 ZN	3		
11-17	BC03-0317	Pivot Without Segger	1		

# 13.21 CONTROL VALVE ASSEMBLY (HANIL AV 80/6)



# 13.21 CONTROL VALVE ASSEMBLY (HANIL AV 80/6)



REF.NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	BC04-0000-P	Control Valve Ass'y(No 2~54)	1		
2	BC04-0100	Blcok; BA Type(Inlet), UNF 7/8-14	1		
3	BC04-0200	Blcok; HB Type(Boom), UNF 3/4-16	1		
4	BC04-0300	Blcok; HA Type, UNF 3/4-16	2		
5	BC04-0400	Blcok; EA Type, UNF 3/4-16	3		
6	BC04-0500	Blcok; GB Type (Outlet), UNF 7/8-14	1		
7	BC04-0600	O-ring, AS568-228	7		
8	BC04-0700	Plug Ass'y, UNF 7/8-14	1		
9	BC04-0800	Poppet; Check	6		
10	BC04-0900	Spring; Check	6		
11	BC04-1000	Plug-Check Ass'y, PF 3/8	6		
12	BC04-1100	M.R.V. Ass'y, 150kgf/cm2, 35lpm	1		
13	BC04-1200	O.R.V. Ass'y, 170kgf/cm2, 35lpm	4		
14	BC04-1300	A.C.V. Ass'y	2		
15	BC04-1400	Spool Ass'y; Float	1		
16	BC04-1500	Spool Ass'y; Std	3		
17	BC04-1600	Spool Ass'y; Stabilizer	2		
18	BC04-1700	Return Cap	6		
19	BC04-1800	Wrench Bolt, M6-1.0p 20l	18		
20	BC04-1900	Housing; Detent	1		
21	BC04-2000	Socket; Detent	1		
22	BC04-2100	Ball; Detent, P 5/32"	4		
23	BC04-2200	Sleeve; Detent	1		
24	BC04-2300	Spring; Return	1		
25	BC04-2400	Wrench Bolt, M6-1.0p 60l	2		

REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
26	BC04-2500	O-ring, 1B-P18	1		
27	BC04-2600	Seal Kit Ass'y; Float	1		
28	BC04-2700	O-ring, 1A-P15	5		
29	BC04-2800	Dust Wiper	5		
30	BC04-2900	Seal Plate	3		
31	BC04-3000	Bracket; Stabilizer	2		
32	BC04-3100	Wrench Bolt, M6-1.0P 15L	6		
33	BC04-3200	Bracket; Joint	2		
34	BC04-3300	Support; Joint	2		
35	BC04-3400	Block; Joint	2		
36	BC04-3500	Support; Ball, M6-1.0P	6		
37	BC04-3600	Nylon Nut, M6-1.0P	6		
38	BC04-3700	Lever; Stabilizer	2		
39	BC04-3800	Pin	4		
40	BC04-3900	Washer; Pin	4		
41	BC04-4000	Snap Pin	4		
42	BC04-4100	Spring Pin, P3.0-L25L	4		
43	BC04-4200	Nut, M8-1.25P	8		
44	BC04-4300	Tie Bolt, M8-1.25P 326L	4		
45	BC04-4400	Boot, Control	2		
46	BC04-4500	Hand Lever	2		
47	BC04-4600	Boot, Control	2		
48	BC04-4700	Hand Lever	2		
49	BC01-2400	Plastic Ball, ø40	2		
50	BC04-4900	Lever Stick	2		

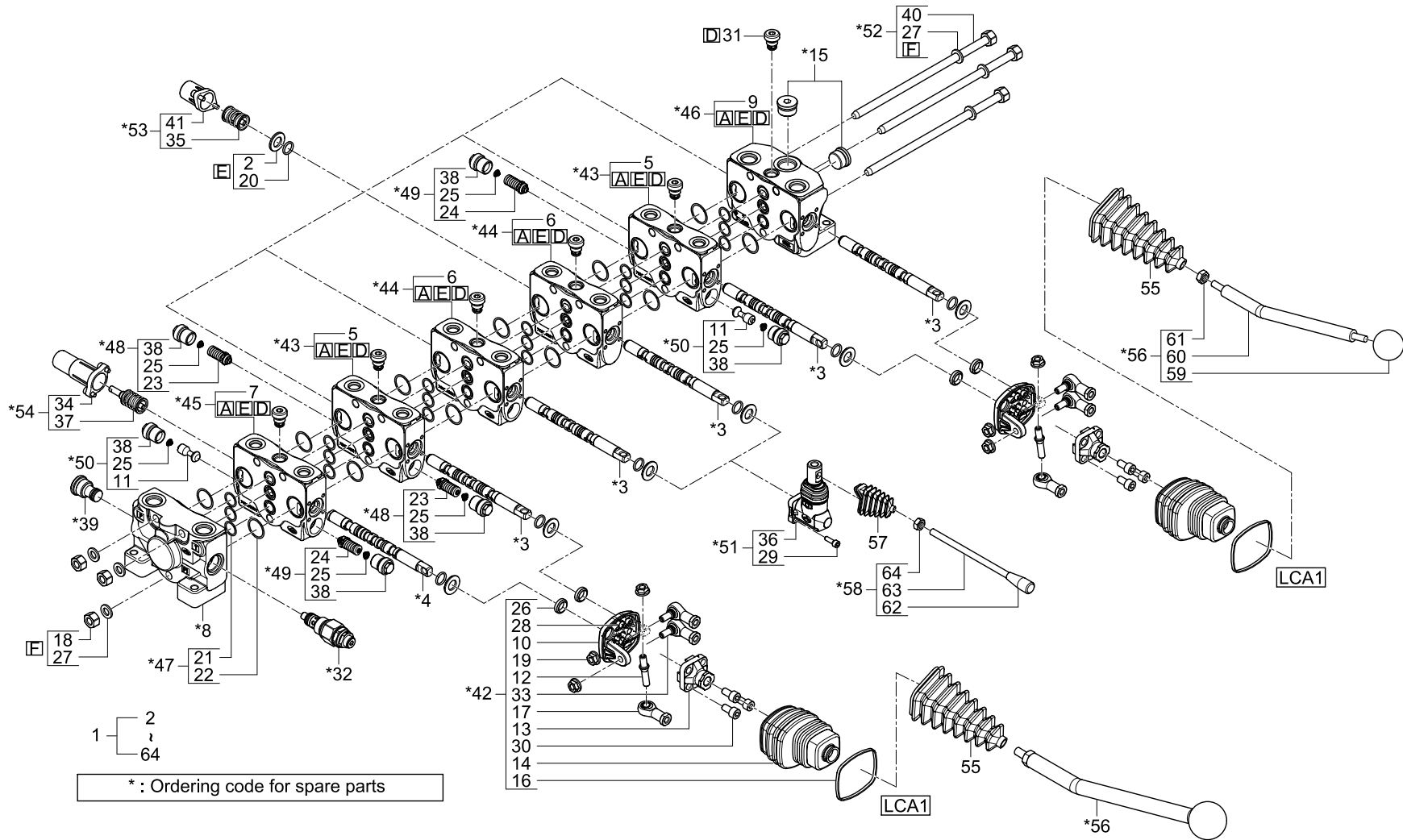




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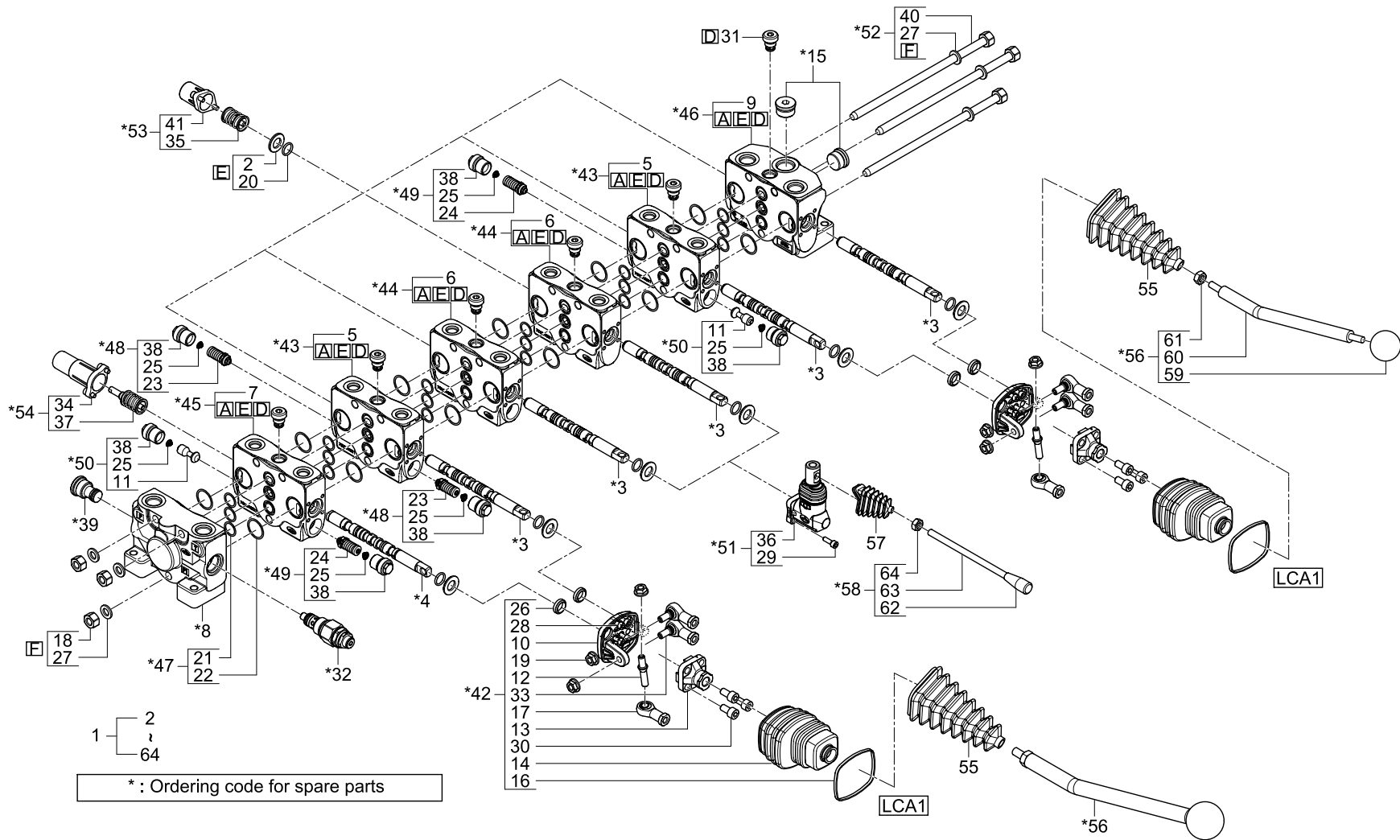


# 13.22 CONTROL VALVE ASSEMBLY (WALVOIL SDS100)



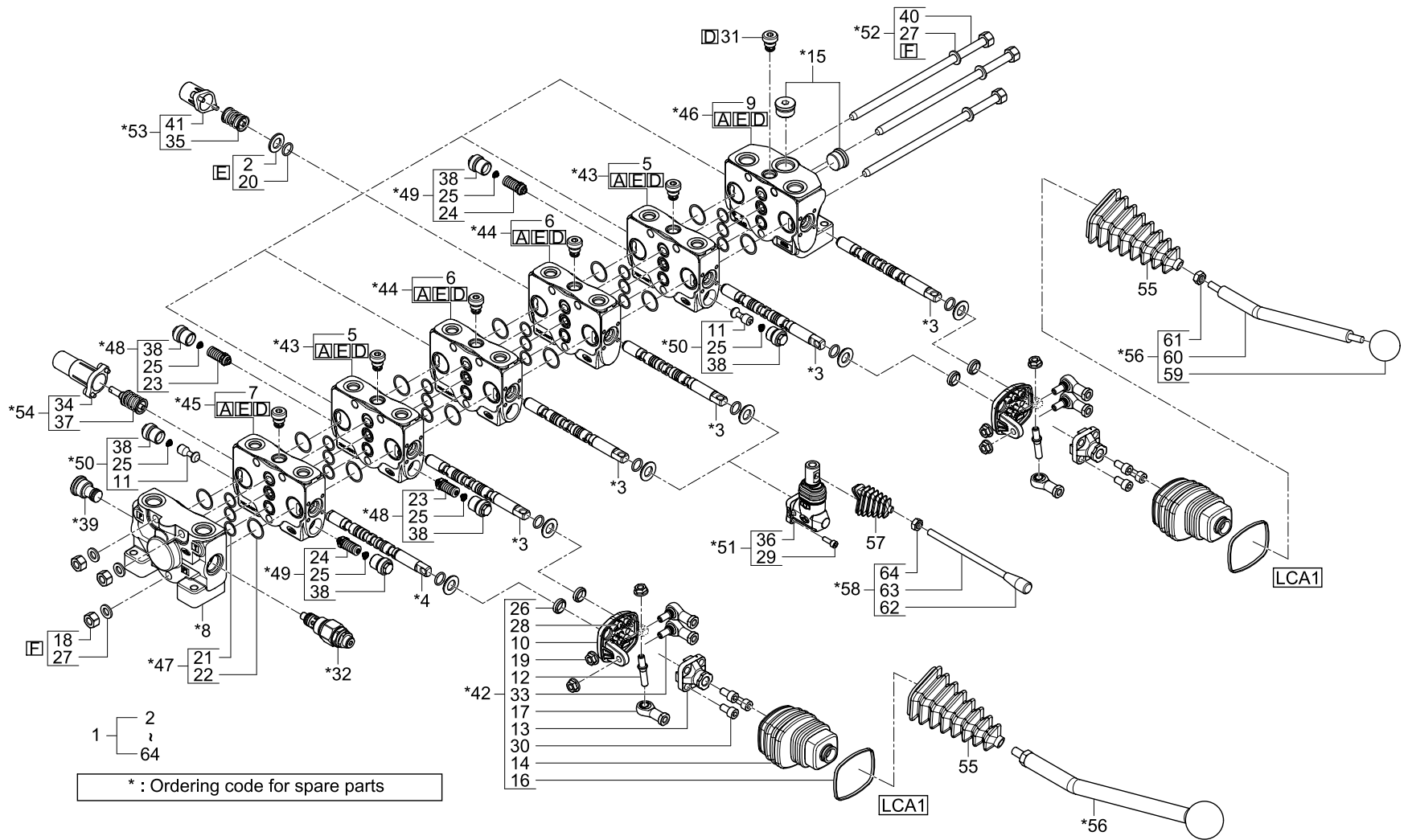
REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
1	111060019	WALVOIL Valve Ass'y	1		
2	3ANE126020	14x25.5x2.3/S080 RING	12		
3	3CU6210100	101/SDS100 SPOOL	5		* Order code for spare parts
4	3CU6242113	505/SDS100 SPOOL	1		
5	3EL1077005	SDS100/P WORKING SECTION	2		* Order code for spare parts
6	3EL1077010	SDS100/Q-SAE WORKING SECTION	2		
7	3EL1077200	SDS100/P5-SAE WORKING SECTION	1		
8	3FIA107700	SDS100/CN-SAE INLET COVER	1		
9	3FIA207710	SDS100/RQ-SAE OUTLET COVER	1		
10	3FUL720000	LCA1-4/SDS100 FIXED PIVOT	2		* Order code for spare parts
11	3OTT214330	C/DPC130-SDS100 SHUTTER	2		
12	3PER512480	M8 LCB/SDS100 PIN	2		
13	3POR340350	LCB/SDS100 ARTICULATION HOLDER	2		
14	3SOF207001	LCA/SDS100 RUBBER BELLOW	2		
15	3XTAP826160	SAE 10 PLUG	2		
16	4ACC210	TY26MX-3,6x281 CLAMP	2		
17	4ART008110	M8 ROD END	2		
18	4DAD110125	UNI-5587/M10-8.8 NUT	3		* Order code for spare parts
19	4DAD708125	EXAGONAL NUT M8	6		
20	4GUA114020	14.00X2 NBR 70 SH O-RING SEAL	12		
21	4GUA117218	17.17X1.78 NBR 70 SH O-RING SEAL	18		
22	4GUA126718	26.70X1.78 NBR 70 SH O-RING SEAL	12		
23	4KIT320100	VMA1.060 100 bar VALVE	2		
24	4KIT320175	VMA1.060 175 bar VALVE	2		
25	4MOL513110	PVLP/DPC130 VALVE SPRING	6		

# 13.22 CONTROL VALVE ASSEMBLY (WALVOIL SDS100)



REF. NO	PART. NO	DESCRIPTION	QTY	I.C	REMARK
26	4PAR214035	14X3.5 (HL 1420) DUST COVER	4		
27	4ROS310522	A10/UNI-1751 ELASTIC WASHER	6		
28	4VIT605012	UNI-5931/M5x12-8.8 SCREW	8		
29	4VIT605014	UNI-5931/M5x14-8.8 SCREW	4		
30	4VIT608016	UNI 5931-M8x16-8.8 SCREW	6		
31	X156310001	VR/S080-SDM102 KIT	6		
32	X196151175	VMD100(TVG3-175)-Q5 VALVE	1		
33	XART008110	LCB/SDS100 M8 JOINT	4		
34	XCAP210725	V13/SD5 ENDCAP KIT	1		
35	XCAP280370	S5 ENDCAP KIT	5		
36	XLEV107000	L/SDS100 LEVER KIT	2		* Order code for spare parts
37	XPER114590	VERS.13/SDS100 POSITIONER KIT	1		
38	XTAP522260	PVLP/DPC130 VALVE PLUG	6		
39	XTAP526360	SV/VMP100 PLUG	1		
40	XTIR110304	M10x304-SDS100/C6 TIE ROD WITH NUT	3		
41	XV08107000	8/SDS100 SPOOL CONTROL KIT (MB STANDARD)	5		
42	5CLO207010	LCA1 CONTROL KIT	1		
43	5EL1077005	P-TYPE WORKING SECTION-SAE	2		* Order code for spare parts
44	5EL1077010	Q-TYPE WORKING SECTION-SAE	2		
45	5EL1077200	P5-WORKING SECTION-SAE	1		
46	5FIA207710	OUTLET COVER	1		* Order code for spare parts
47	5GUA100	O-RING FOR WORKING SECTION	1		* Order code for spare parts
48	5KIT330100	ANTI-SHOCK VALVE(100BAR)	2		* Order code for spare parts
49	5KIT330175	ANTI-SHOCK VALVE(175BAR)	2		* Order code for spare parts
50	5KIT410000	ANTI-CABITATION VALVE	2		* Order code for spare parts

# 13.22 CONTROL VALVE ASSEMBLY (WALVOIL SDS100)





## 13.23 DECALS

 **CAUTION**

- Read and refer to the Tractor Operation Manual or Decals on the Tractor and Backhoe Decals on as shown.

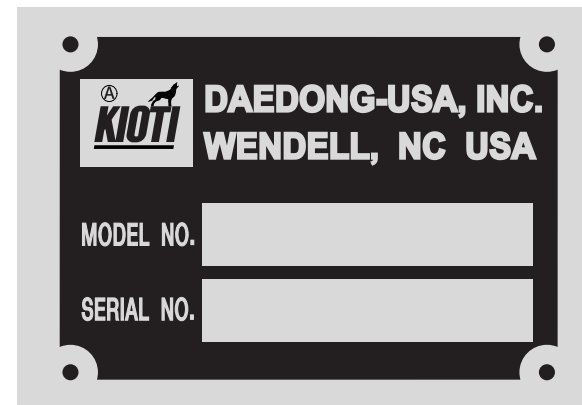
(1) Part No : CK12-3004

Location : Both side of Boom Arm



(2) Part No : CK12-5001

Location : Right side of the Backhoe Mainframe



(Information, Name Plate)



(3) Part No : BD35-0114

Location : Left side of the Backhoe Mainframe



(Information, Bar Code)

(4) Part No : BD35-4000

Location : Both side of Boom Arm



Refer to category "Safety decals"



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