BH 660 760 860 BACKHOE

Operator's Manual

MechMaxx

www.mechmaxx.com

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PREFACE

GENERAL COMMENTS

Congratulations on the purchase of your new product! This product was carefully designed and manufactured to give you many years of dependable service. Only minor maintenance(such as cleaning and lubricating) is required to keep it in top working condition. Be sure to observe all maintenance procedures and safety precautions in this manual and on any safety decals located on the product and on any equipment on which the attachment is mounted.

This manual has been designed to help you do a better, safer job. Read this manual carefully and become familiar with its contents.

Never let anyone operate this unit without reading the "Safety Precautions" and " operating Instructions"sections of manual. Always choose hard, level ground to park the vehicle on and set the brake so the unit cannot roll.
Unless noted otherwise, right and left sides are determined from the operator's control positioning when facing the attachment.

NOTE: The illustrations and data used in this manual were current(according to the information available to us) at the time of printing,however,we reserve the right to redesign and change the attachment as may be necessary without notification

BEFORE OPERATION

The primary responsibility for safety with this equipment falls to the operator.Make sure. The equipment is operated only by trained individuals that have read and understand this manual.If there is any portion of this manual or function you do not understand, contact your local authorized dealer or the manufacturer to obtain further assistance. Keep this manual available for reference. Provide the manual to any new owners and/or operators.

SAFETY ALERT SYMBOL

Use only manufacturer replacement parts.Substitute parts may not meet the required standards. Record the model and serial number of your unit on the cover of this manual. The parts department needs this information to insure that you receive the correct parts.

SAFETY STATEMENTS

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 rotavator.

DANGER	THIS SIGNAL WORD IS USED WHERE SERIOUS INJURY OR DEATH WILL RESULT IF THE INSTRUCTIONS ARE NOT FOLLOWED PROPERLY
WARNING	THIS SIGNAL WORD IS USED WHERE SERIOUS INJURY OR DEATH COULD RESULT IF THE INSTRUCTIONS ARE NOT FOLLOWED PROPERLY
CAUTION	THIS SIGNAL WORD IS USED WHERE MINOR INJURY COULD RESULT IF THE INSTRUCTIONS ARE NOT FOLLOWED PROPERLY
NOTICE	NOTICE INDICATES A PROPERTY DAMAGE MESSAGE

GENERAL SAFETY PRECAUTIONS

READ MANUAL PRIOR TO INSTALLATION
Improper installation,operation,or maintenance of this equipment could result in serious injury or death.Operation and maintenance personnel should read this manual,as well as all manuals related to this equipment and the Tractor thoroughly before beginning installation,operation,or maintenance. FOLLOW ALL SAFETY INSTRUCTIONS IN THIS MANUAL

READ AND UNDERSTAND ALL SAFETY STATEMENTS
Read all safety decals and safety statements in all manuals prior to operating or working on this equipment.Know and obey all OSHA regulations,local laws, and other professional guidelines for your operation.Know and follow good work practices when assembling,maintaining,repairing,removing,or operating this equipment.

KNOW YOUR EQUIPMENT
know your equipment's capabilities, dimensions and operations before operating.
Visually inspect your equipment before you start, and never operate equipment that is not in proper working order with safety devices intacts.check all hardware to ensure it is tight.Make certain that all locking pins,latches,and connection devices are properly installed and secured. Remove and replace any damaged,fatigued,or excessively worn parts.-Make certain all safety decals are in place and are legible. Keep decals clean,and replace them if they become worn and hard to read

PROTECT AGAINST FLYING DEBRIS
Always wear proper safety glasses, goggles or a face shield when driving pins in or out, or when any operation causes dust,flying debris,or any other hazardous material.

LOWER OR SUPPORT RAISED EQUIPMENT

Do not work under raised booms without supporting them. Do not use support material made of concrete blocks,logs,-buckets,barrels or any other material that could suddenly collapse or shift positions.Make sure support materials is solid, not decayed,warped,twisted,or tapered. Lower booms to ground level or onto blocks. Lower booms and attachments to the ground before leaving the cab or operator's station.

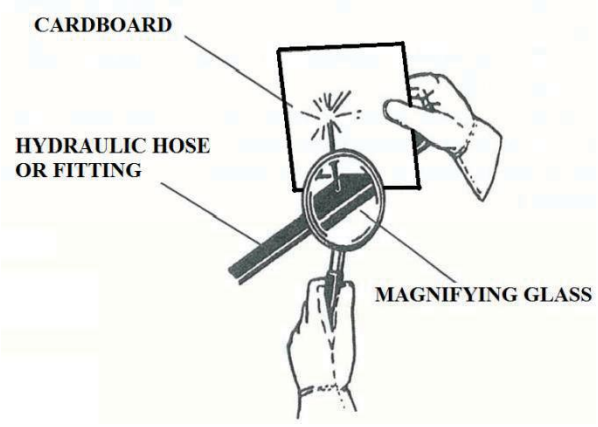
USE CARE WITH HYDRAULIC FLUID PRESSURE

Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death. Hydraulic leaks under pressure may not be visible. Before connecting or disconnecting hydraulic hoses,read and Tractors operator's manual for detailed instruction on connecting and disconnecting hydraulic hoses or fittings

• Keep unprotected body parts, such as face,eyes,and arms as far away as possible from a suspected leak. Flesh injected with hydraulic fluid may develop gangrene or other permanent disabilities.

• If injured by injected fluid, see a doctor at once. If your doctor is not familiar with this type of injury, ask him to research immediately to determine proper treatment.

• Wear safety glasses, protective clothing, and use a sound piece of cardboard or wood when researching for hydraulic leaks.DO NOT USE YOUR HANDS! SEE ILLUSTRATION.



DO NOT MODIFY MACHINE OR ATTACHMENTS

Modifications may weaken the integrity of the attachment and may impair the function,safety,life and performance of the attachment. When making repairs,use only manufacturer's genuine parts,following authorized instructions. Other parts may be substandard in fit and quality. Never modify any ROPS(Roll over Protection Structure) or FOPS(Falling object Protective Structure) equipment or device. Any modifications must be authorized in writing by the manufacturer.

SAFELY MAINTAIN AND REPAIR EQUIPMENT.

Do not wear loose clothing, or any accessories that can catch in moving parts.

• If you have long hair, cover or secure it so that it does not become entangled in the equipment.

• Work on a level surface in a well-lit area.

• Use properly grounded electrical outlets and tools.

• Use the correct tool for the job at hand. Make sure they are in good condition for the task required.

• Wear the protective equipment specified by the tool manufacturer.

SAFELY OPERATE EQUIPMENT

Do not operate equipment until you are completely trained by a qualified operator in how to use the controls.Know its capabilities,dimensions,and all safety requirements. See your machine's manual for these instructions.

- Keep all step plates, grab bars,pedals,and controls free of dirt, grease, debris, and oil.
- Never allow anyone to be around the equipment when it is operating.
- Do not allow riders on the attachment or the Tractor.
- Do not operate the equipment from anywhere other than the correct operators position.
- Never leave equipment unattended with the Engine running or with this attachment in a raised position.
- Do not alter or remove any safety feature from the Tractor or this attachment.
- Know your work site safety rules as well as traffic rules and the flow. When in doubt on any safety issue, contact your supervisor or safety coordinator for an explanation

KNOW WHERE UTILITIES ARE

Observe overhead electrical and other utility lines. Be sure equipment will clear them. When digging, call your local utilities for location of buried utility lines,gas,water,and sewer, as well as any other hazard you may encounter.

EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA DUST ALONG WITH OTHER HAZARDOUS DUSTS MAY CAUSE SERIOUS OR FATAL RESPIRATORY DISEASE.

It is recommended to use dust suppresion,dust collection and if necessary personal protective equipment during the operation of any attachment that may cause high levels of dust.

REMOVE PAINT BEFORE WELDING OR HEATING

Hazardous fumes/dust can be generated when painted heated by welding, soldering or using a torch. Do all work outside or in a well ventilated area and dispose of paint and solvent properly. Remove paint before welding or heating.

When sanding or grinding paint, avoid breathing the dust, Wear an approved respirator. If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper contains and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.

END OF LIFE DISPOSAL

At the completion of the useful life of the unit, drain all fluids and dismantle by separating the different materials(rubber, steel,plastic,etc).Follow all federal, state and local regulations for recycling and disposal of the fluid and components

OPERATING THE ATTACHMENT

- Do not exceed the lifting capacity of your Tractor.
- Operate only from the operator's station.
- When operating on slopes, drive up and down, not across. Avoid steep hillside operation,which could cause the Tractor to overturn.
- Reduce speed when driving over rough terrain, on a slope, or turning, to avoid overturning the vehicle.
- An operator must not use drugs or alcohol, which can change his or her alertess or coordination. An operator taking prescription or over-the-counter drugs should seek medical advice on whether or not he or she can safely operate equipment.

EQUIPMENT SAFETY PRECAUTIONS

OPERATING THE ATTACHMENT

- Never heap or load heavy material where the combined weight of the bucket and material could exceed the rated lifting capacity of the backhoe.
- Be sure the load does not stick out too far in front of the bucket. A light load sticking out too far can have the same tipping effect as a heavy load carried in close.
- If the load appears to be unstable, lower the load, and repositioning the load to attain stability.
- When using the Backhoe, lift the load slightly and make sure that the load is secure. If the load appears to be an unstable, lower the load, and reposition the load to attain full stability.
- Before Exiting the Tractor, lower the attachment to the ground, turn off the Tractor's Engine, remove the key and apply the brakes.

TRANSPORTING THE ATTACHMENT

- Travel only with the attachment in a safe transport position to prevent uncontrolled movement. Drive slowly over rough ground and on slopes.
- When transporting on a trailer: secure attachment at recommended tie down locations using tie down accessories that are capable of maintaining attachment stability.
- When driving on public roads use safety lights,reflectors,Slow moving vehicle signs etc., to prevent accidents. Check local government regulations that may affect you.
- Do not dive close to ditches,excavators,etc,.cave in could result.
- Do not smoke when refueling the Tractor. Allow room in the fuel tank for expansion. Wipe up any spilled fuel. Secure cap tightly when done.

MAINTAINING THE ATTACHMENT

- Before performing maintenance, lower the attachment to the ground, apply the brakes, turn off the engine, and remove the key.
- Never perform any work on the attachment unless you authorized and qualified to do so.Always read the operator service manual's before any repair is made. After completing maintenance or repair, check for correct functioning of the attachment. If not functioning properly, always tag" DO NOT OPERATE" until all problems are corrected.
- Worn, damaged or ,illegible safety decals must be replaced. New safety decals can be ordered from Dealer or manufacturer.
- Never make hydraulic repairs while the system is under pressure. Serious personal injury or death could result.
- Never work under a raised attachment.

DECALS

GENERAL INFORMATION

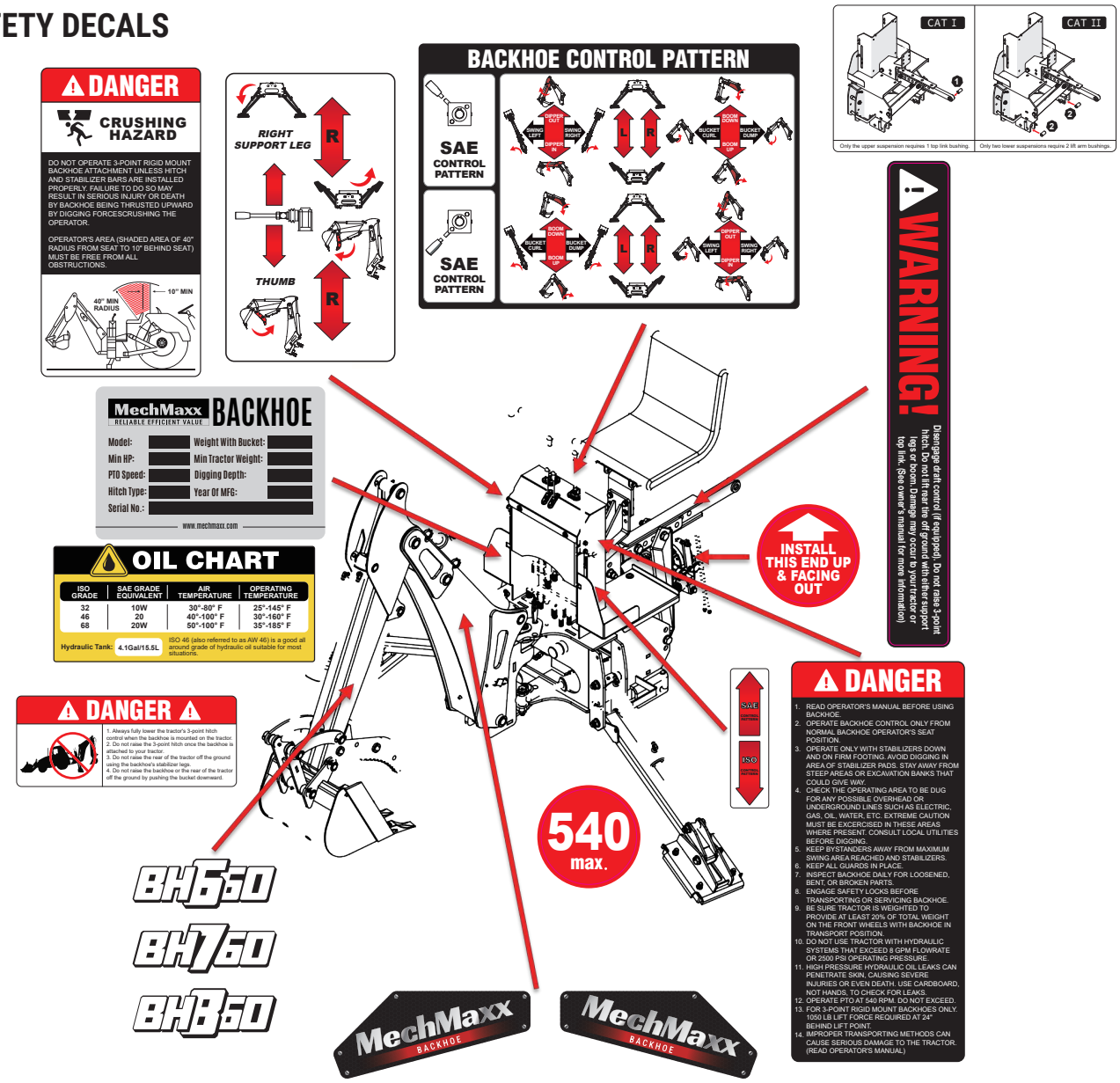
The following diagrams show the location of all the decals on your attachment.

The decals are identified by their parts numbers,with the reductions of the actual decals shown on the following pages.Use this information to order replacements for lost or damaged decals. Be sure you understand all decals before operating the attachment. They contain information you need to know for attachment safety(See decal explanations.)

IMPORTANT: Keep all safety decals clean and legible. Replace all missing, or damaged safety decals. When replacing parts with safety decals attached, the safety decals must also be replaced.

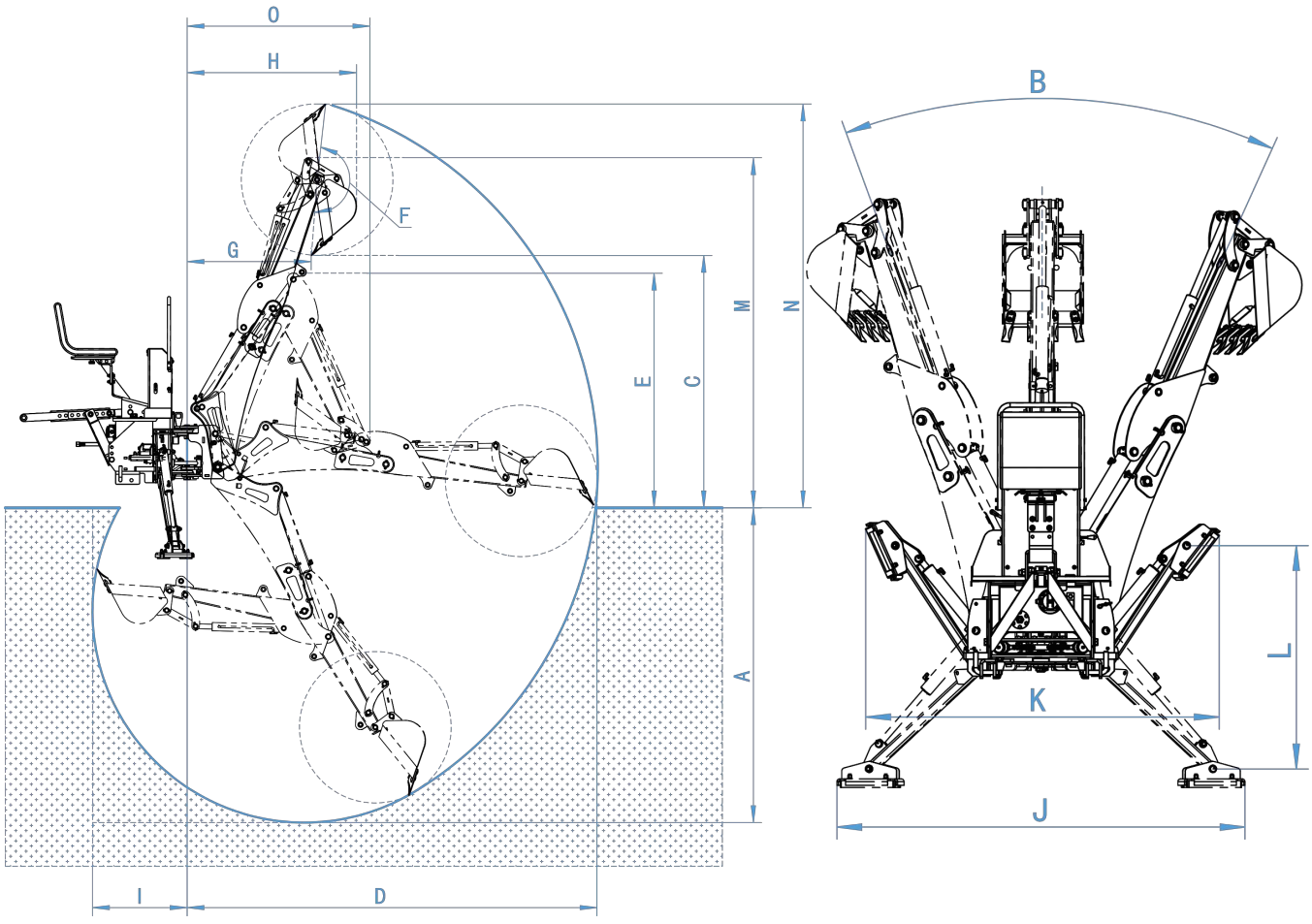
REPLACING SAFETY DECALS.:Clean the area of application with nonflammable solvent, then wash the same area with soap and water. Allow the surface to dry. Remove the backing from the safety decal, exposing the adhesive surface. Apply the safety decal to the position shown in the diagram, and smooth out any bubbles.

SAFETY DECALS



SPECIFICATIONS

BACKHOE SPECIFICATIONS



Specifications and design are subject to change without prior notice.

	Model	BH660	BH760	BH860
	Max. Digging Depth	7 ft	8 ft	9 ft
A.	Digging Depth (two foot flat bottom)	6 ft 6 in	7 ft 6 in	8 ft 6 in
B.	Swing Arc	180 Degrees	180 Degrees	180 Degrees
C.	Loading Height (bucket at 60 °)	4 ft 9 in	6 ft	6 ft 1in
D.	Reach from Center Line of Swing Pivot	9 ft 1 in	9 ft 9 in	10 ft 8 in
E.	Transport Height (maximum)	5 ft 2 in	5 ft 7 in	6 ft 2 in
F.	Bucket Rotation	180 Degrees	180 Degrees	180 Degrees
G.	Loading Reach (bucket at 60 °)	3 ft 8 in	3 ft 7 in	4 ft 3 in
H.	Transport Overhang	4 ft 9 in	4 ft 3 in	5 ft 4 in
I.	Undercut	1 ft 6 in	2 ft 3 in	2 ft 2 in
J.	Stabilizer Spread (down position)	6 ft 7 in	6 ft 7 in	6 ft 7 in
K.	Stabilizer Spread (up position)	5 ft 9 in	5 ft 9 in	5 ft 9 in
L.	Stabilizer Spread (lifting height)	3 ft 8 in	3 ft 8 in	3 ft 8 in
M.	Transportation Height (maximum altitude)	7 ft 2 in	8 ft 4 in	8 ft 9 in
N.	Loading Height (bucket at 180 °)	8 ft 4 in	9 ft 7 in	9 ft 10 in
O.	Transport Overhang (maximum)	4 ft 2 in	4 ft 5 in	4 ft 5 in
	Bucket Cylinder Digging Force	2840 lbs	2840 lbs	3000 lbs
	Dipper stick Cylinder Digging Force	2005 lbs	2005 lbs	2500 lbs
	Hydraulic Volume Requirements	4 to 5 GPM	5 to 6 GPM	5 to 6 GPM
	Hydraulic Pressure Requirements	2250psi	2250psi	2250psi
	Hydraulic Tank Capacity	4.1 US Gal (15.5L)	4.1 US Gal (15.5L)	4.1 US Gal (15.5L)
	Hydraulic Type Recommended	AW 46	AW 46	AW 46
	Self-contained Hydraulic Pump & Tank	Included	Included	Included
	ISO or SAE Switch	Included	Included	Included
	Thumb	Mechanical	Hydraulic	Hydraulic
	Standard Bucket Size	12 in (3 teeth)	15 in (4 teeth)	15 in (4 teeth)
	PTO Speed	540 RPM	540 RPM	540 RPM
	PTO Connection	1-3/8" 6 Spline	1-3/8" 6 Spline	1-3/8" 6 Spline
	Recommended HP	15 to 50 HP	20 to 100 HP	25 to 100 HP
	3-Point Hitch	CAT I	CAT I & II	CAT I & II
	Min Tractor Weight	1500 lbs	2300 lbs	3200 lbs

About compatibility with the tractor, ensure the tractor's HP and 3-point hitch fit the backhoe, and the tractor meets the minimum weight for safe operation. If the tractor is too light, add front ballast to improve balance and reduce tipping risks. Also, consider the tractor's operating conditions, such as speed and slope. Above all, always prioritize safety during operation.

INTRODUCTION.

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

BACKHOE COMPONENTS.

Terms for backhoe components have some variations throughout the industry.

IMPORTANT:

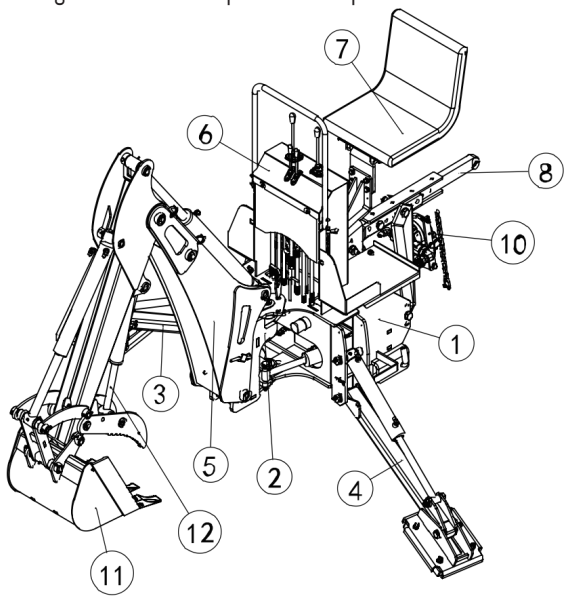
Illustrations used in this manual may not show all safety equipment that is recommended to ensure safe operation of tractor and backhoe. Refer to the Safety Precautions section of this manual for information concerning safety. consult your dealer for further information.

WARRANTY REGISTRATION

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

The serial number is important information about the machine and it may be necessary to know it before obtaining the correct replacement part.



1.Base assembly
2.Steering assembly
3.Left leg assembly
4.Right leg assembly
5.Moving arm assembly
6.Console assembly
7.Seat assembly
8.Base connecting rod assembly
9.The fuel tank assembly
10.PTO pump assembly
11.Bucket Assembly
12.Mechanical/Hydraulic Log Grab Components

TRACTOR PREPARATION

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.

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.

BACKHOE OPERATION

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 that it can 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 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, dipper stick, 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.

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.

Do not operate the backhoe 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 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.

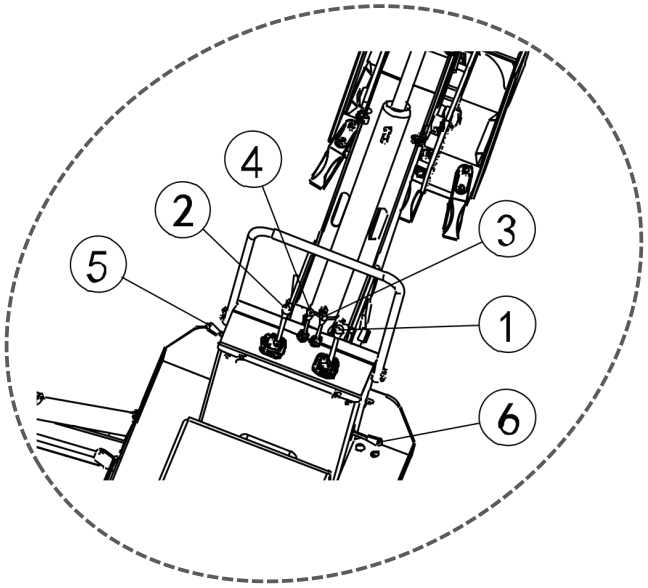
Before leaving the machine, stop the engine, remove the key, place all controls in neutral, and either set the parking brake or place tractor in park as equipped.

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

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.

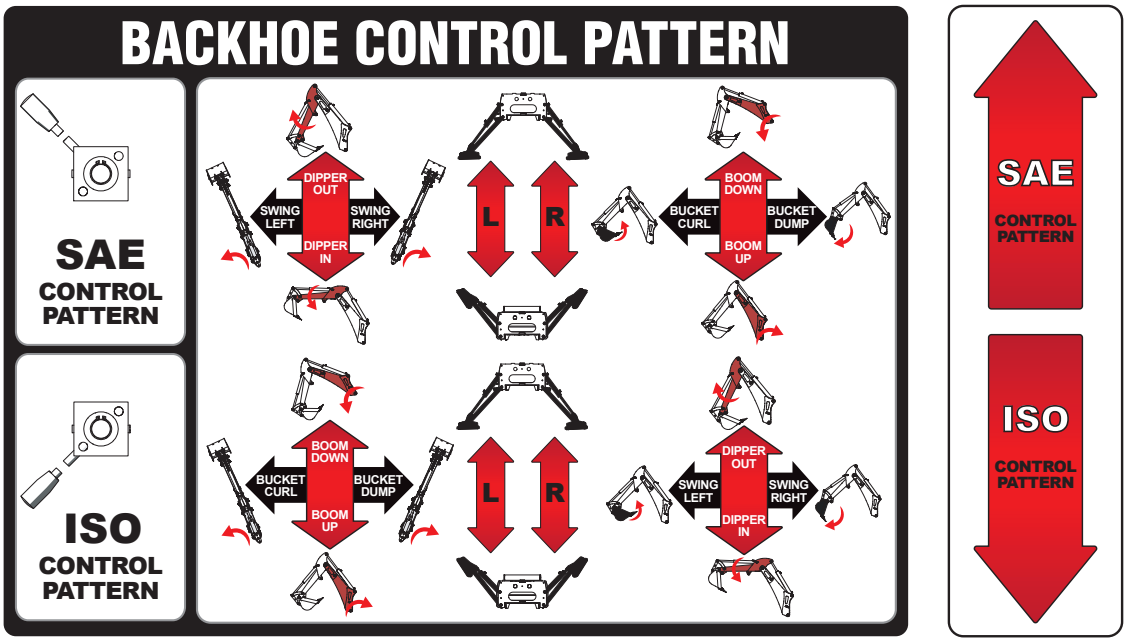
COLD WEATHER OPERATION

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.

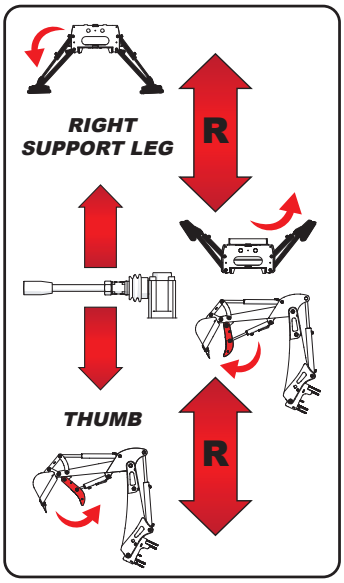


Do not dig near the stabilizers to avoid possible accident.

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

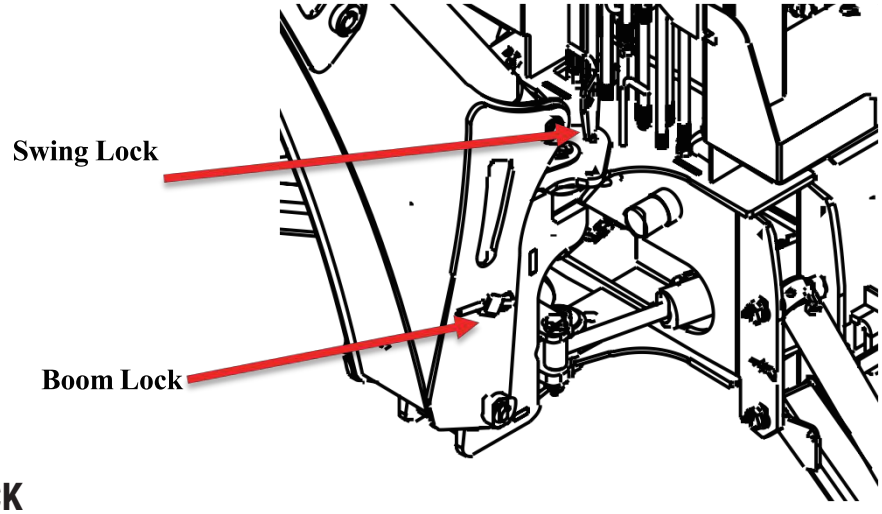


Your backhoe is one of kind in the industry. MechMaxx backhoe allows the user to switch between ISO and SAE control positions.



MechMaxx backhoe with hydraulic thumb ,

This label indicates which way to push the lever to activate hydraulics to the thumb or the stabilizer leg, respectively.



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.

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

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

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.

BACKHOE REMOVAL

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.

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 & dipper stick 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. Sub-frame in the mounting brackets on the tractor.

STEP 6.

Using both the stabilizer and boom controls, set the backhoe sub-frame 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 sub-frame disengages of the mounting brackets.

STEP 8.

Lower the backhoe mainframe to the ground by raising stabilizers and boom. Use the wood plate 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.

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.

BACKHOE MOUNTING

Backhoe should be mounted on the proper sub-frame assembly.

Never store backhoe without bucket attached to the backhoe.

LUBRICATION AND MAINTENANCE

Some of the hinge points that need to be greased are shown in this diagram. Please note that this diagram shows one side, and that there will be a corresponding grease point on the other side of the backhoe. Some of the grease points are too small to be featured on this diagram. You will need to grease all grease fittings on the machine.

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.

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

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 dipper stick 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(10 hours).

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.

BEARING LUBRICATION

There are many questions when it comes to greasing bearings. All MechMaxx implements are now equipped with bearings that are factory greased so that 33% of the race is full of grease, this allows for operation at all speed ranges. In a clean, dry environment adding more grease to the bearing is not required for at least 500 hours of use. This is counter intuitive to many people that have older equipment and are used to pumping grease into the bearings daily. Modern high quality bearings are made from better steel alloys,provide higher tolerances, increased rubber seal compounds, and better quality lubricants.These recommendations are based on load, spindle speed, operating temperature, and environmental conditions. More grease is not better, rather is counter-productive and can cause the bearing to generate heat and lead to premature failure. You should never pump grease into a bearing until the seals push outward, this is a sign that too much grease is applied, and can deform the seal causing an entryway for contaminants. Follow the bearing lubrication schedule below for optimum performance and long bearing life.

BEARING LUBRICATION GUIDE BASED ON ENVIRONMENTAL CONDITIONS

Machine stored and operated in clean, dry environment.	2-pump shots of grease after 500 hours	2" shaft or larger
	1-pump shots of grease after 500 hours	3/4"- 2" shaft
Machine stored and operated in dirty, dusty environment.	2-pump shots of grease after 250 hours	2"- shaft or larger
	1-pump shots of grease after 250 hours	3/4"- 2" shaft
Machine stored and operated in wet environment	1-pump shots of grease after 50 hours	3/4"- shaft or larger

TORQUE SPECIFICATIONS

The tables shown below give the correct torque values for various bolts and cap screws. Tighten all bolts to the torques specified unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same length and grade of bolt.

TORQUE VALUES CHART FOR COMMON BOLT SIZES

Bolt Size (Inches) in-tpi[1]	Bolt Head Identification					
	 Grade 2		 Grade 5		 Grade 8	
	N.m[2]	ft-lb[3]		ft-lb	N.m	ft-lb
1/4"-20	7.4	5.6	11	8	16	12
1/4"-28	8.5	6	13	10	18	14
5/16"-18	15	11	24	17	33	25
5/16"-24	17	13	26	19	37	27
3/8" -16	27	20	42	31	59	44
3/8" -24	31	22	47	35	67	49
7/16" -14	43	32	67	49	95	70
7/16"-20	49	36	75	55	105	78
1/2" -13	66	49	105	76	145	105
1/2" -20	75	55	115	85	165	120
9/16"-12	95	70	150	110	210	155
9/16"-18	105	79	165	120	235	170
5/8" - 11	130	97	205	150	285	210
5/8" -18	150	110	230	170	325	240
3/4" -10	235	170	360	265	510	375
3/4" -16	260	190	405	295	570	420
7/8" -9	225	165	585	430	820	605
7/8" -14	250	185	640	475	905	670
1"-8	340	250	875	645	1230	910
1"-12	370	275	955	705	1350	995
1-1/8"-7	480	355	1080	795	1750	1290
1-1/8" -12	540	395	1210	890	1960	1440
1-1/4"-7	680	500	1520	1120	2460	1820
1-1/4" -12	750	555	1680	1240	2730	2010
1-3/8"-6	890	655	1990	1470	3230	2380
1-3/8" -12	1010	745	2270	1670	3680	2710
1-1/2" -6	1180	870	2640	1950	4290	3160
1-1/2" -12	1330	980	2970	2190	4820	3560

Bolt Size (Inches) mm x pitch[4]	Bolt Head Identification					
	 Class 5.8		 Class 8.8		 Class 10.9	
	N.m	ft-lb	N.m	ft-lb	N.m	ft-lb
M5X0.8	4	3	6	5	9	7
M6X1	7	5	11	8	15	11
M8X 1.25	17	12	26	19	36	27
M8X1	18	13	28	21	39	29
M10X 1.5	33	25	52	39	72	53
M10X0.75	39	29	61	45	85	62
M12X 1.75	58	42	91	67	125	93
M12X 1.5	60	44	95	70	130	97
M12X1	90	66	105	77	145	105
M14 X2	92	68	145	105	200	150
M14 X 1.5	99	73	155	115	215	160
M16X2	145	105	225	165	315	230
M16X 1.5	155	115	240	180	335	245
M18 X 2.5	195	145	310	230	405	300
M18 X 1.5	220	165	350	260	485	355
M20 X 2.5	280	205	440	325	610	450
M20 X 1.5	310	230	650	480	900	665
M24X3	480	355	760	560	1050	780
M24 X2	525	390	830	610	1150	845
M30 X 3.5	960	705	1510	1120	2100	1550
M30×2	1060	785	1680	1240	2320	1710
M36 X3.5	1730	1270	2650	1950	3660	2700
M36X2	1880	1380	2960	2190	4100	3220

[1] in-tpi = nominal thread diameter in inches-threads per inch

[2] N.m= newton-meters

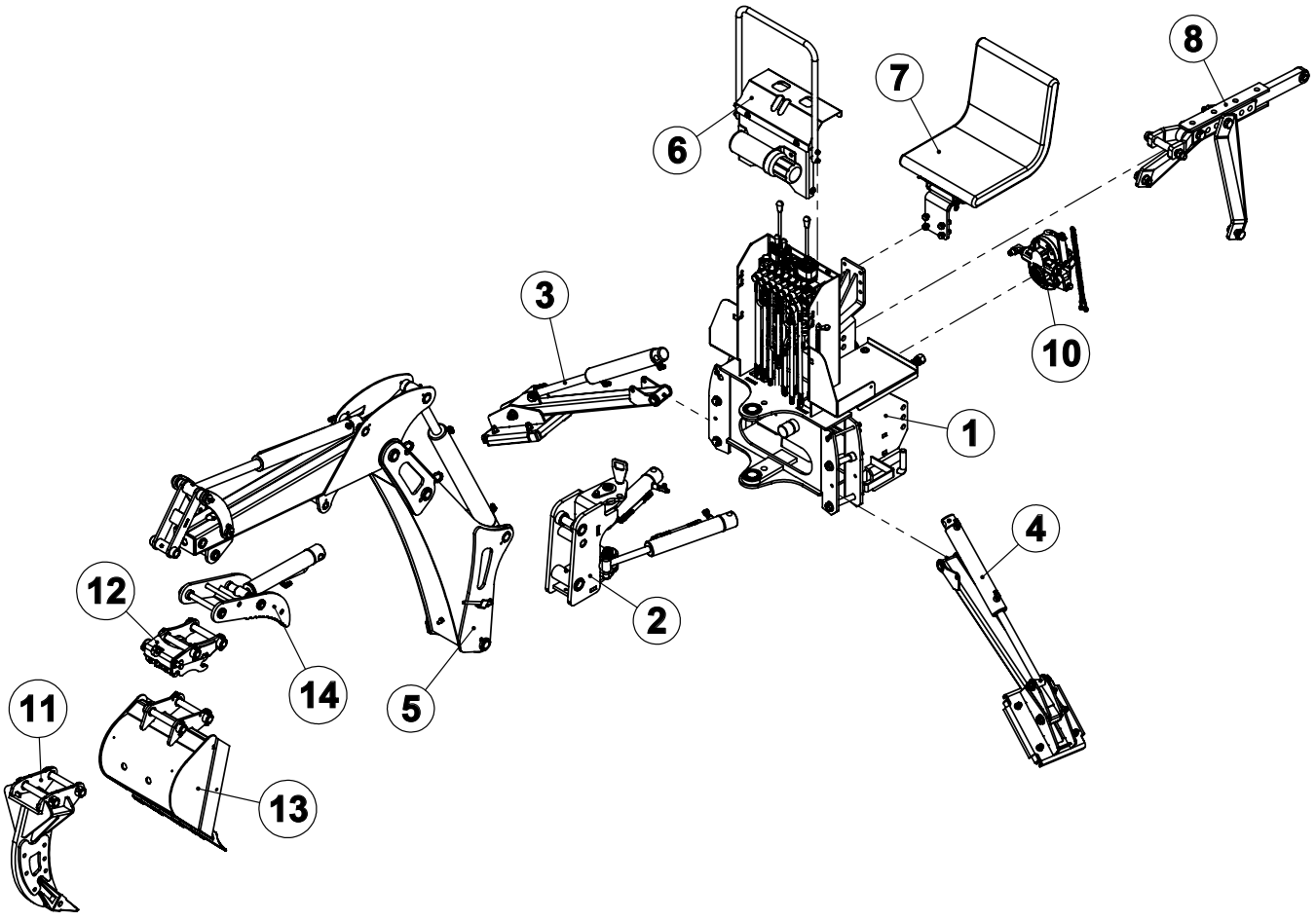
[3] ft-lb= foot pounds

[4] mm x pitch = nominal thread diameter in millimeters x thread pitch

Torque tolerance +0%,-15% of torquing values. Unless otherwise specified use torque values listed above.

Torque figures indicated above are valid for non-greased or non-oiled threads and heads otherwise specified. Therefore, do not grease or oil bolts or cap screws unless otherwise specified in this manual. When using locking elements, increase torque values by 5%

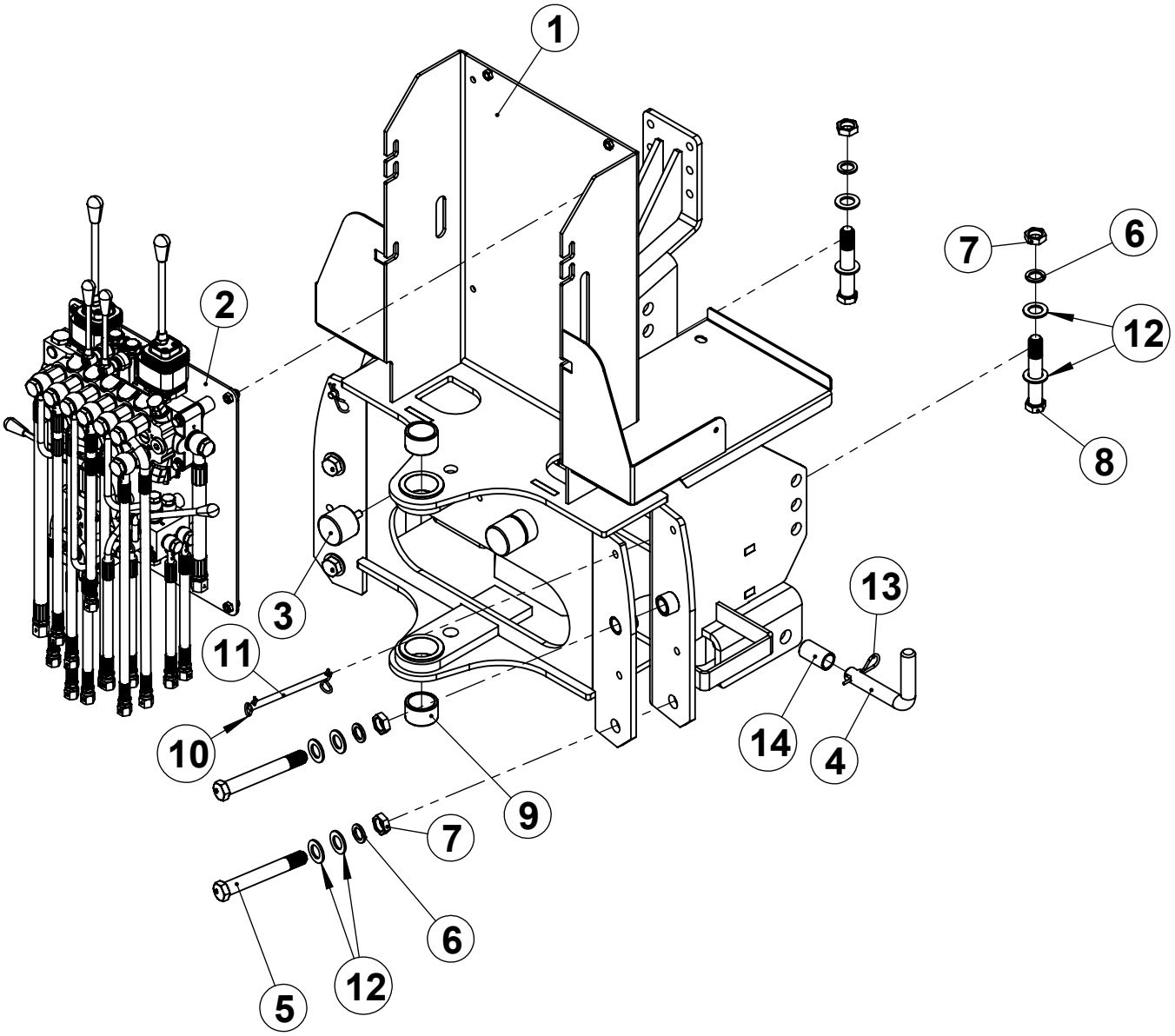
PARTS DIAGRAM (BACKHOE)



PARTS LIST (BACKHOE)

ITEM	DESCRIPTION	QTY
1	Base assembly	1
2	Steering assembly	1
3	Left leg assembly	1
4	Right leg assembly	1
5	Moving arm assembly	1
6	Console assembly	1
7	Seat assembly	1
8	Base connecting rod assembly	1
9	The fuel tank assembly	1
10	PTO pump assembly	1
11	Scarification Teeth	1
12	Quick Change System	1
13	Bucket Assembly-15"	1
14	Hydraulic Log Grab Components	1

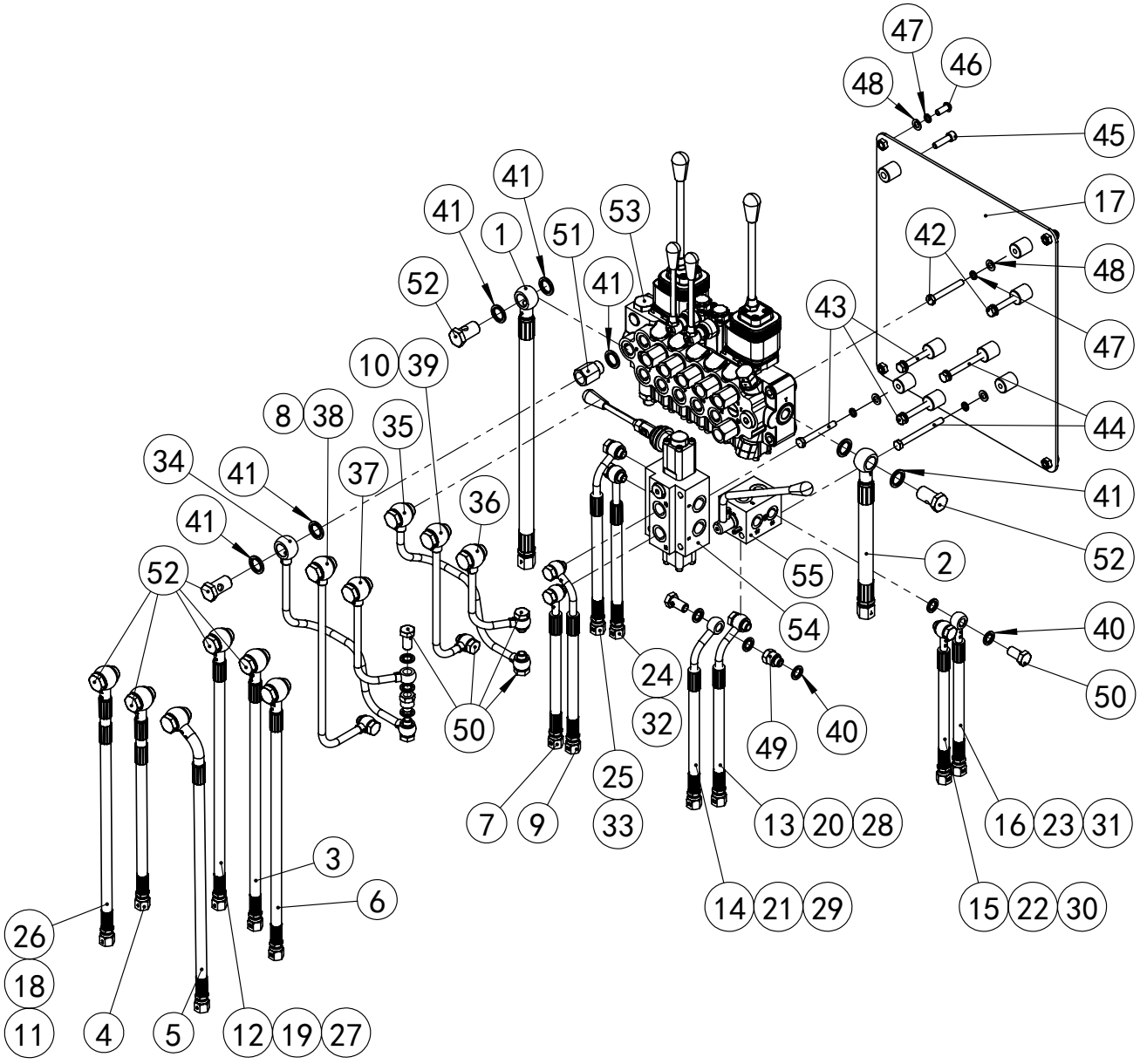
PARTS DIAGRAM (BASE ASSEMBLY)



PARTS LIST (BASE ASSEMBLY)

ITEM	DESCRIPTION	SPECIFICATION	QTY
1	Base assembly welding	BHO76-001-B1	1
2	Multiplex valve assembly	BHO-01-01	1
3	Pipe Plug	Φ50x40-M10X27	2
4	Pin	BHO76-100	2
5	Hexagon Fit Shank Bolts	GB_T27-M20×150-8.8-EP-Zn	4
6	Spring washer	GB_T93-20×5-EP_Zn	6
7	Hexagon Thin Nut	GB_T6172.1-M20-EP_Zn	6
8	Hexagon Fit Shank Bolts	GB_T27-M20×120-8.8-EP-Zn	2
9	bushing 40*50*30	Φ40XΦ50X30mm	2
10	Spring Cotters	Φ3×50EP_Zn	4
11	Pin	BHO76-202	2
12	Plain Washer	GB_T95-20×3-EP_Zn	14
13	Spring Cotters	Φ3.5×75EP_Zn	2
14	Lower suspension pin shaft spacer	BHO76-222	2

PARTS DIAGRAM (MULTIPLEX VALVE ASSEMBLY)

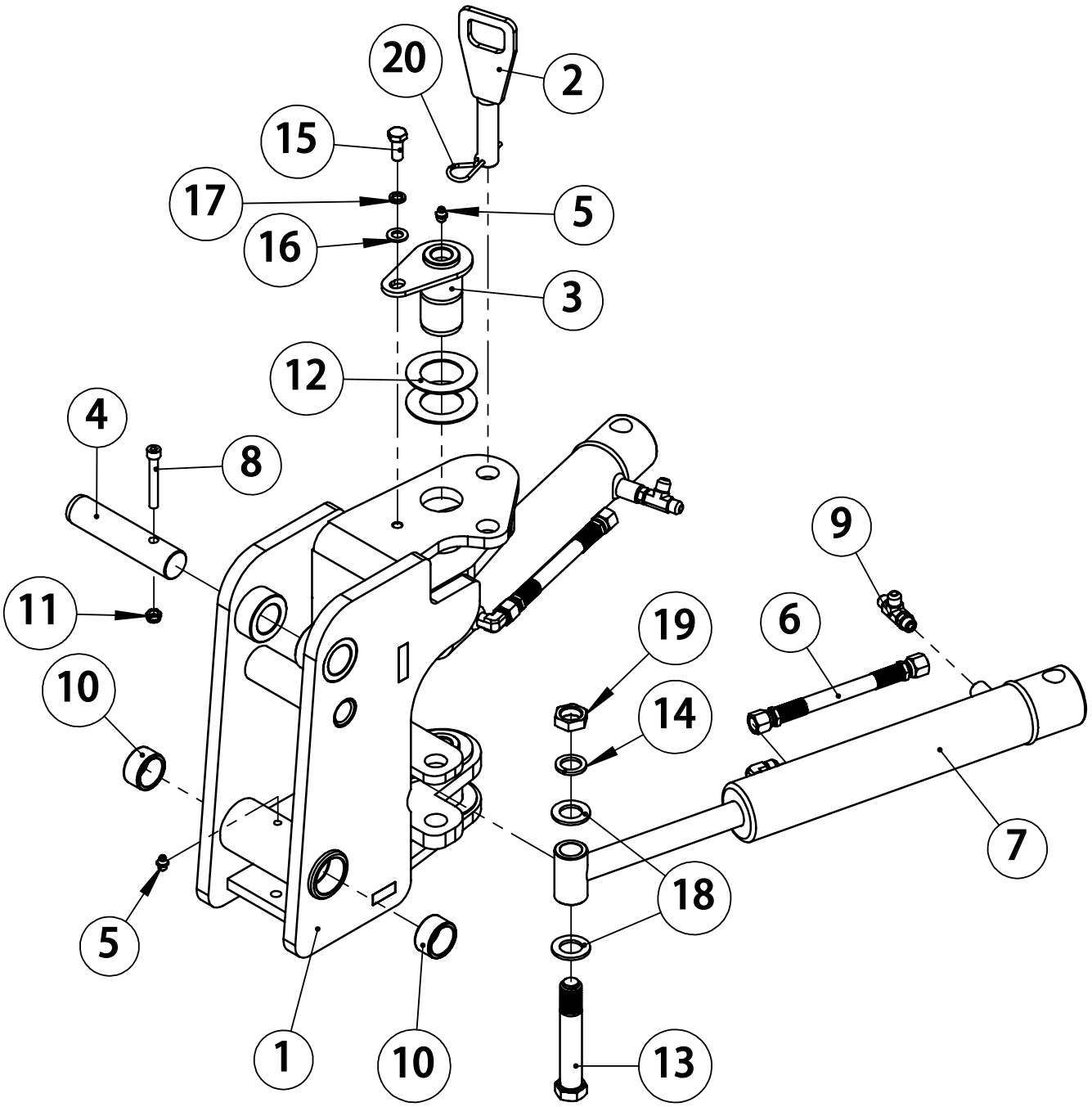


PARTS LIST (MULTIPLEX VALVE ASSEMBLY)

ITEM	DESCRIPTION	SPECIFICATION	66 QTY	76 QTY	86 QTY
1	Oil Inlet Hose For Hydraulic Directional Valve	BHO-110	1	1	1
2	Oil Return Hose For Hydraulic Directional Valve	BHO-111	1	1	1
3	Hydraulic Hose 10S-10	BHO-120	1	1	1
4	Hydraulic Hose 4S-4	BHO-120-C	1	1	1
5	Hydraulic Hose 6S-6	BHO-122	1	1	1
6	Hydraulic Hose 12S-12	BHO-123	1	1	1
7	Hydraulic Hose 17-17	BHO-128	1	1	-
8	Hydraulic Hose 3-3	BHO-128JX-C	-	-	1
9	Hydraulic Hose 18-18	BHO-129	1	1	-
10	Hydraulic Hose 9-9	BHO-129JX	-	-	1
11	Hydraulic Hose 2 66-2	BHO66-118-C	-	-	1
12	Hydraulic Hose 8 66-8	BHO66-119	-	-	1
13	Hydraulic Hose 13 66-13	BHO66-124	-	-	1
14	Hydraulic Hose 14 66-14	BHO66-125	-	-	1
15	Hydraulic Hose 15 66-15	BHO66-126	-	-	1
16	Hydraulic Hose 16 66-16	BHO66-127	-	-	1
17	Plate	BHO76-002	1	1	1
18	Hydraulic Hose 2 76-2	BHO76-118-C	-	1	-
19	Hydraulic Hose 8 76-8	BHO76-119	-	1	-
20	Hydraulic Hose 13 76-13	BHO76-124	-	1	-
21	Hydraulic Hose 14 76-14	BHO76-125	-	1	-
22	Hydraulic Hose 15 76-15	BHO76-126	-	1	-
23	Hydraulic Hose 16 76-16	BHO76-127	-	1	-
24	Hydraulic Hose 19 76-19	BHO76-130	-	1	-
25	Hydraulic Hose 20 76-20	BHO76-131	-	1	-
26	Hydraulic Hose 2 86-2	BHO86-118-C	1	-	-
27	Hydraulic Hose 8 86-8	BHO86-119	1	-	-
28	Hydraulic Hose 13 86-13	BHO86-124	1	-	-

ITEM	DESCRIPTION	SPECIFICATION	66 QTY	76 QTY	86 QTY
29	Hydraulic Hose 14 86-14	BHO86-125	1	-	-
30	Hydraulic Hose 15 86-15	BHO86-126	1	-	-
31	Hydraulic Hose 16 86-16	BHO86-127	1	-	-
32	Hydraulic Hose 19 86-19	BHO86-130	1	-	-
33	Hydraulic Hose 20 86-20	BHO86-131	1	-	-
34	Rigid Tube 1-1	BHO-112	1	1	1
35	Rigid Tube 7-7	BHO-113	1	1	1
36	Rigid Tube 11-11	BHO-114	1	1	1
37	Rigid Tube 5-5	BHO-115	1	1	1
38	Rigid Tube 3-3	BHO-116	1	1	-
39	Rigid Tube 9-9	BHO-117	1	1	-
40	Combination washer (self-centering)	BS / A13.74×20.57×2- 1 / 2(G1 / 4)	30	30	18
41	Combination washer (self-centering)	BS / A19.69×26.92×2.5- 3 / 4	35	35	35
42	Hexagon Head Bolts	GB_T5782-M8×60-8.8-EP_ZN	2	2	2
43	Hexagon Head Bolts	GB_T5782-M8×65-8.8-EP_ZN	3	3	-
44	Hexagon Head Bolts	GB_T5782-M8×85-8.8-EP_ZN	2	2	2
45	Hexagon Socket Head Cap Screws	GB_T70.1-M8×30-8.8-EP_Zn	1	1	1
46	Hexagon Socket Button Head Screws	GB_T70.2-M8×20-8.8-EP_Zn	4	4	4
47	Spring washer	GB_T93-8×2.1-EP_Zn	12	12	9
48	Plain Washer	GB_T95-8-EP_Zn	11	11	8
49	Adapter L18	UNF1 / 2-20	2	2	2
50	Hollow screws L25	UNF1 / 2-20	14	14	8
51	Adapter L27.5	UNF3 / 4-16	7	7	7
52	Hollow screws L33	UNF3 / 4-16	14	14	14
53	Hydraulic Directional Valve	UV-TR55-6-R60001	1	1	1
54	Hydraulic Directional Valve	VMS-50	1	1	-
55	Hydraulic Directional Valve	VMT-20	1	1	1

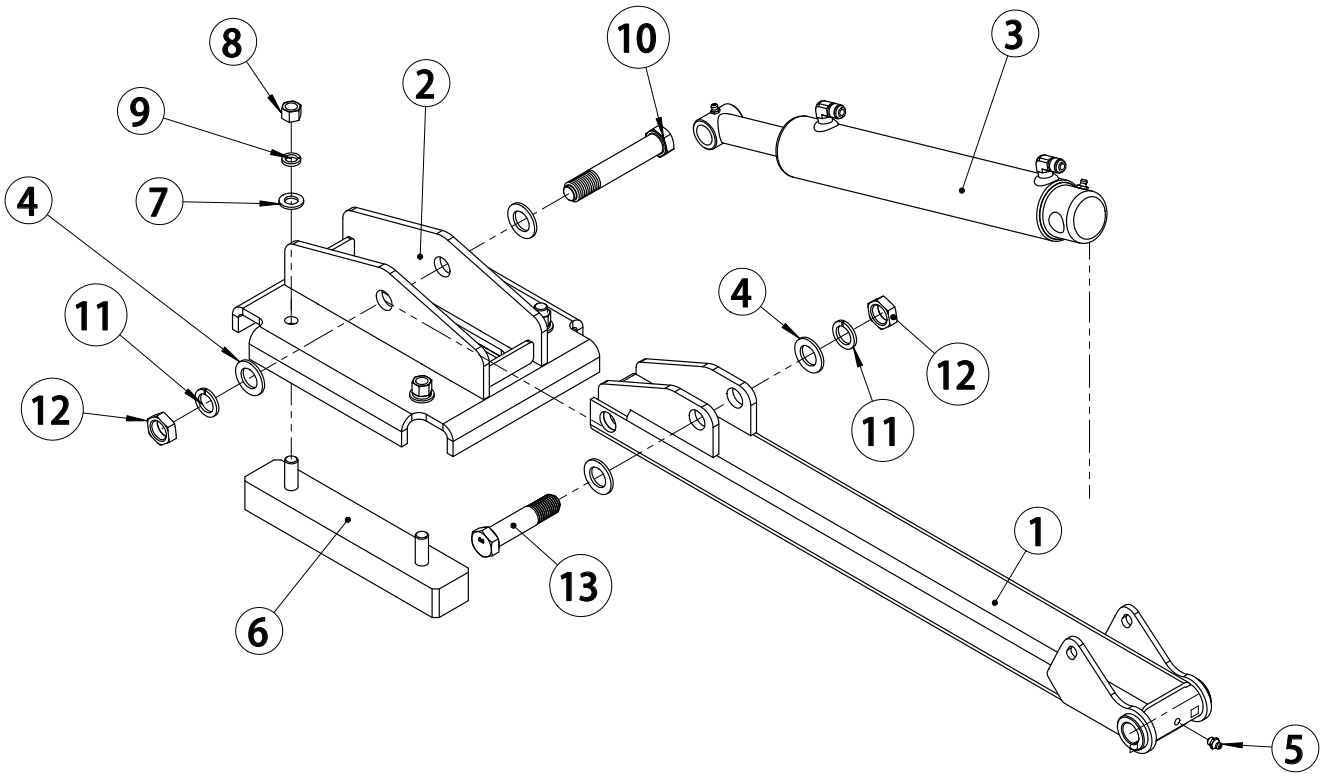
PARTS DIAGRAM (STEERING ASSEMBLY)



PARTS LIST (STEERING ASSEMBLY)

ITEM	DESCRIPTION	SPECIFICATION	QTY
1	The rotary joints are welding	BHO76-003	1
2	Pin	BHO76-005	1
3	Spindle Wire Assembly	BHO76-004-B1	2
4	Pin	BHO76-203	1
5	Grease nipple	JB_T7940.1-M8×1	3
6	Hydraulic Hose	BHO-125	2
7	Hydraulic cylinder	BHO-132	2
8	Hexagon socket head cap screws	GB_T70.1-M8×60-8.8-EP Zn	1
9	Transition joints	UNF1 / 2-20	2
10	Bushing	Φ30XΦ38X20mm	2
11	Prevailing torque type hexagon nut	GB_T889.1-M8-8-EP_Zn	1
12	Adjusting Shim	BHO76-201	4
13	Hexagon Fit Shank Bolts	GB_T27-M20×120-8.8- EP-Zn	2
14	Spring washer	GB_T93-20×5-EP_Zn	2
15	Hexagon Head Bolt - Full Thread	GB_T5783-M10×25-8.8- EP-Zn	2
16	Plain Washer	GB_T95-10×2-EP_Zn	2
17	Spring washer	GB_T93-10×2.6-EP_Zn	2
18	Plain Washer	GB_T95-20×3-EP_Zn	4
19	Hexagon Thin Nut	GB_T6172.1-M20-EP_Zn	2
20	Spring Cotters	Φ3.5×75EP_Zn	1

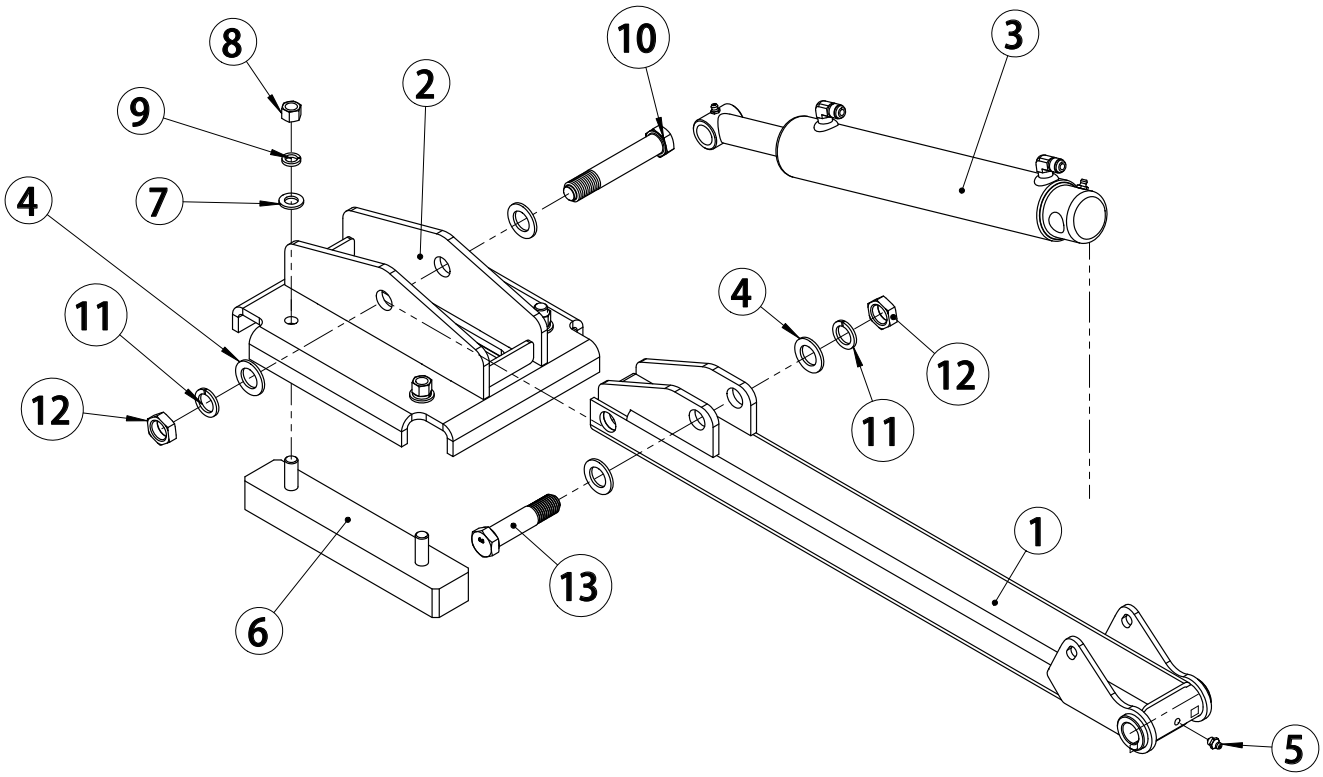
PARTS DIAGRAM (LEFT LEG ASSEMBLY)



PARTS LIST (LEFT LEG ASSEMBLY)

ITEM	DESCRIPTION	SPECIFICATION	QTY
1	Poles are welding	BHO76-006	1
2	Bottom plate welding	BHO76-007	1
3	Hydraulic cylinder	BHO-133	1
4	Spring washer	GB_T95-20x3-EP_Zn	4
5	Grease nipple	JB_T7940.1-M8x1	1
6	Rubber sheet	BHO76-200	2
7	Plain Washer	GB_T95-12×2.5-EP_Zn	4
8	Hexagon Nuts	GB_T41-M12-EP_Zn	4
9	Spring washer	GB_T93-12x3.1-EP_Zn	4
10	Plain Washer	GB_T27-M20x120-8.8-EP-Zn	1
11	Hexagon Fit Shank Bolts	GB_T93-20x5-EP_Zn	2
12	Hexagon Thin Nut	GB_T6172.1-M20-EP_Zn	2
13	Hexagon Fit Shank Bolts	GB_T27-M20x90-8.8-EP-Zn	1

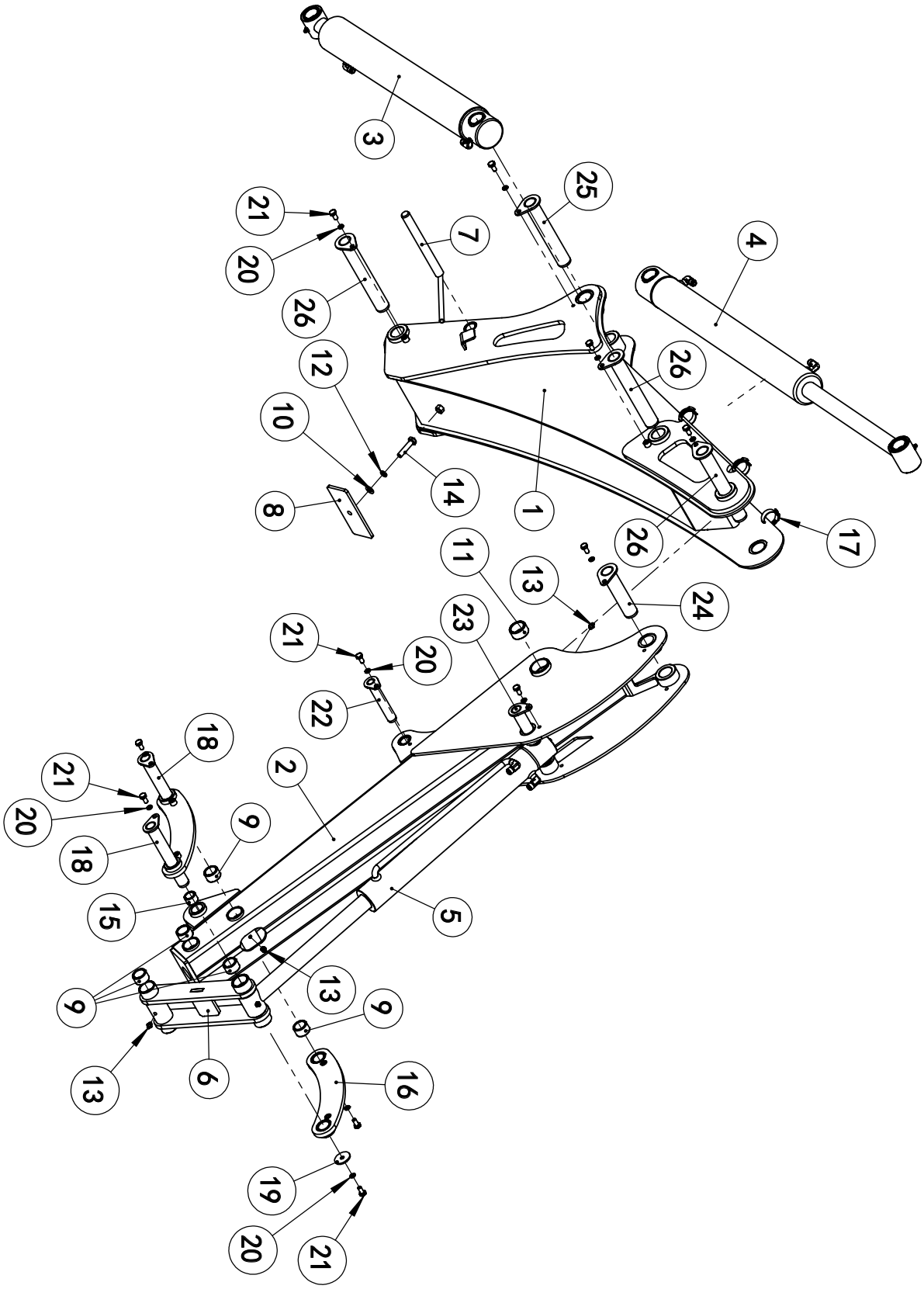
PARTS DIAGRAM (RIGHT LEG ASSEMBLY)



PARTS LIST (RIGHT LEG ASSEMBLY)

ITEM	DESCRIPTION	SPECIFICATION	QTY
1	Poles are welding	BHO76-006	1
2	Bottom plate welding	BHO76-007	1
3	Hydraulic cylinder	BHO-133	1
4	Grease nipple	JB_T7940.1-M8x1	1
5	Rubber sheet	BHO76-200	2
6	Plain Washer	GB_T95-12×2.5-EP_Zn	4
7	Hexagon Nuts	GB_T41-M12-EP_Zn	4
8	Spring washer	GB_T93-12x3.1-EP_Zn	4
9	Hexagon Thin Nut	GB_T6172.1-M20-EP_Zn	2
10	Hexagon Fit Shank Bolts	GB_T93-20x5-EP_Zn	1
11	Spring washer	GB_T95-20x3-EP_Zn	2
12	Plain Washer	GB_T27-M20x120-8.8-EP-Zn	4
13	Hexagon Fit Shank Bolts	GB_T27-M20x90-8.8-EP-Zn	1

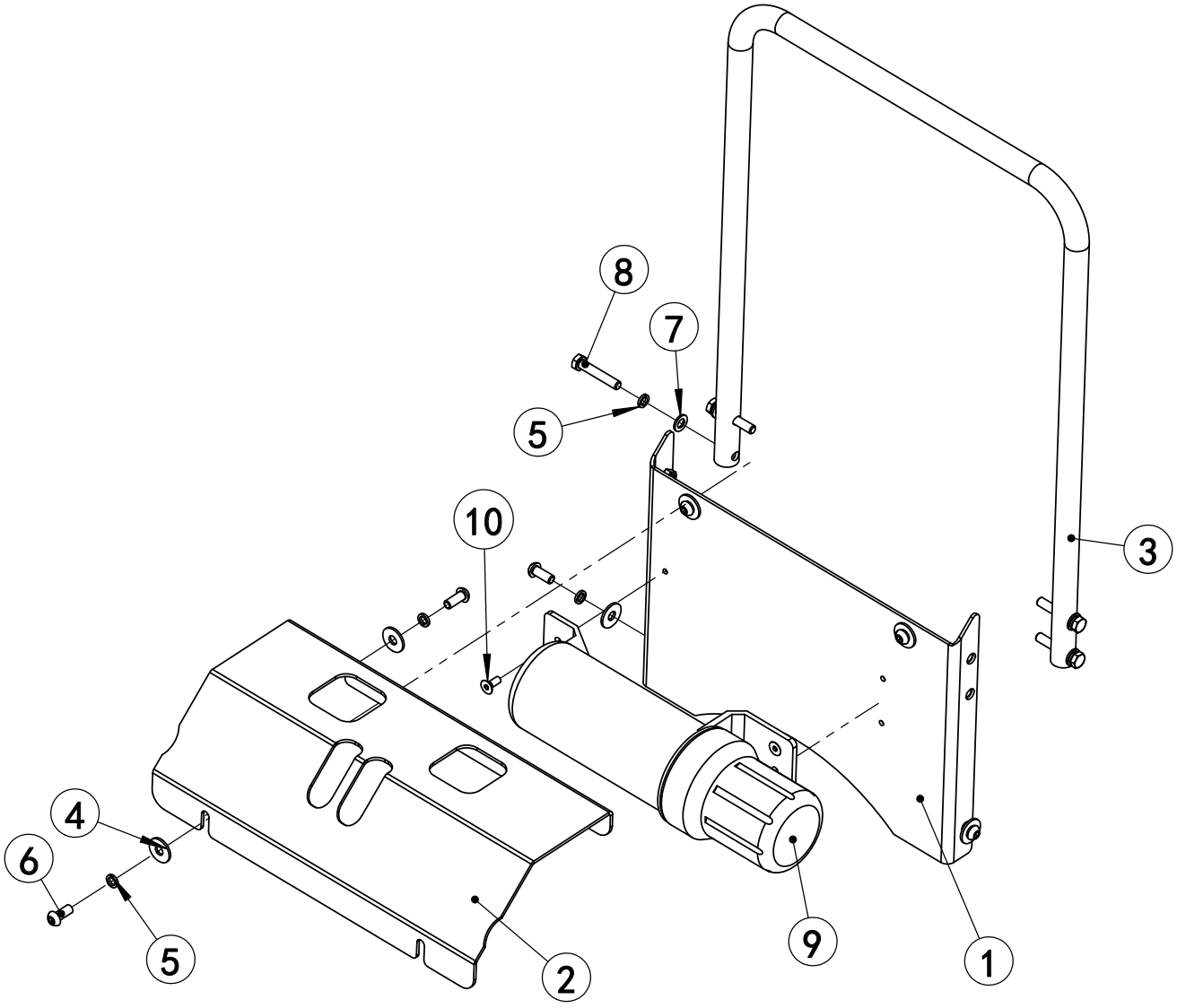
PARTS DIAGRAM (MOVING ARM ASSEMBLY)



PARTS LIST (MOVING ARM ASSEMBLY)

ITEM	DESCRIPTION	SPECIFICATION	66 QTY	76 QTY	86 QTY
1	Large movable arm welding	BHO66-008-B1	1	-	-
1	Large movable arm welding	BHO76-008-B1	-	1	-
1	Large movable arm welding	BHO86-008-B1	-	-	1
2	Small moving arm welding	BHO66-009-B1	1	-	-
2	Small moving arm welding	BHO76-009-B1	-	1	-
2	Small moving arm welding	BHO86-009-B1	-	-	1
3	Moving arm assembly	BHO66-134	1	-	-
3	Moving arm assembly	BHO76-134	-	1	-
3	Moving arm assembly	BHO86-134	-	-	1
4	Hydraulic cylinder	BHO66-135	1	-	-
4	Hydraulic cylinder	BHO76-135	-	1	-
4	Hydraulic cylinder	BHO86-135	-	-	1
5	Hydraulic cylinder	BHO66-136	1	-	-
5	Hydraulic cylinder	BHO76-136	-	1	-
5	Hydraulic cylinder	BHO86-136	-	-	1
6	Connecting rod base bracket welding	BHO76-011	1	1	1
7	Pin welding	BHO76-012-B1	1	1	1
8	Plate	BHO76-199	1	1	1
9	Bushing	Φ25XΦ32X20mm	8	8	8
10	Plain Washer	GB_T95-10×2-EP_Zn	1	1	1
11	Bushing	Φ30XΦ38X20mm	2	2	2
12	Spring washer	GB_T93-10×2.6-EP_Zn	1	1	1
13	Grease nipple	JB_T7940.1-M8×1	5	5	5
14	Hexagon Head Bolt - Full Thread	GB_T5783-M10×45-8.8-EP-Zn	1	1	1
15	Bushing	Φ20XΦ26X18mm	2	2	2
16	Connecting rod welding	BHO76-010-B1	2	2	2
17	Hose Clamps	JB_T8870-Φ21~Φ38	4	4	4
18	Pin	BHO76-031	2	2	2
19	Plate	BHO76-223	2	2	2
20	Spring washer	GB_T93-8×2.1-EP_Zn	11	11	11
21	Hexagon Head Bolt - Full Thread	GB_T5783-M8×16-8.8-EP-Zn	11	11	11
22	Pin	BHO76-032	1	1	1
23	Pin	BHO76-033	1	1	1
24	Pin	BHO76-034	1	1	1
25	Pin	BHO76-035	1	1	1
26	Pin	BHO76-036	3	3	3

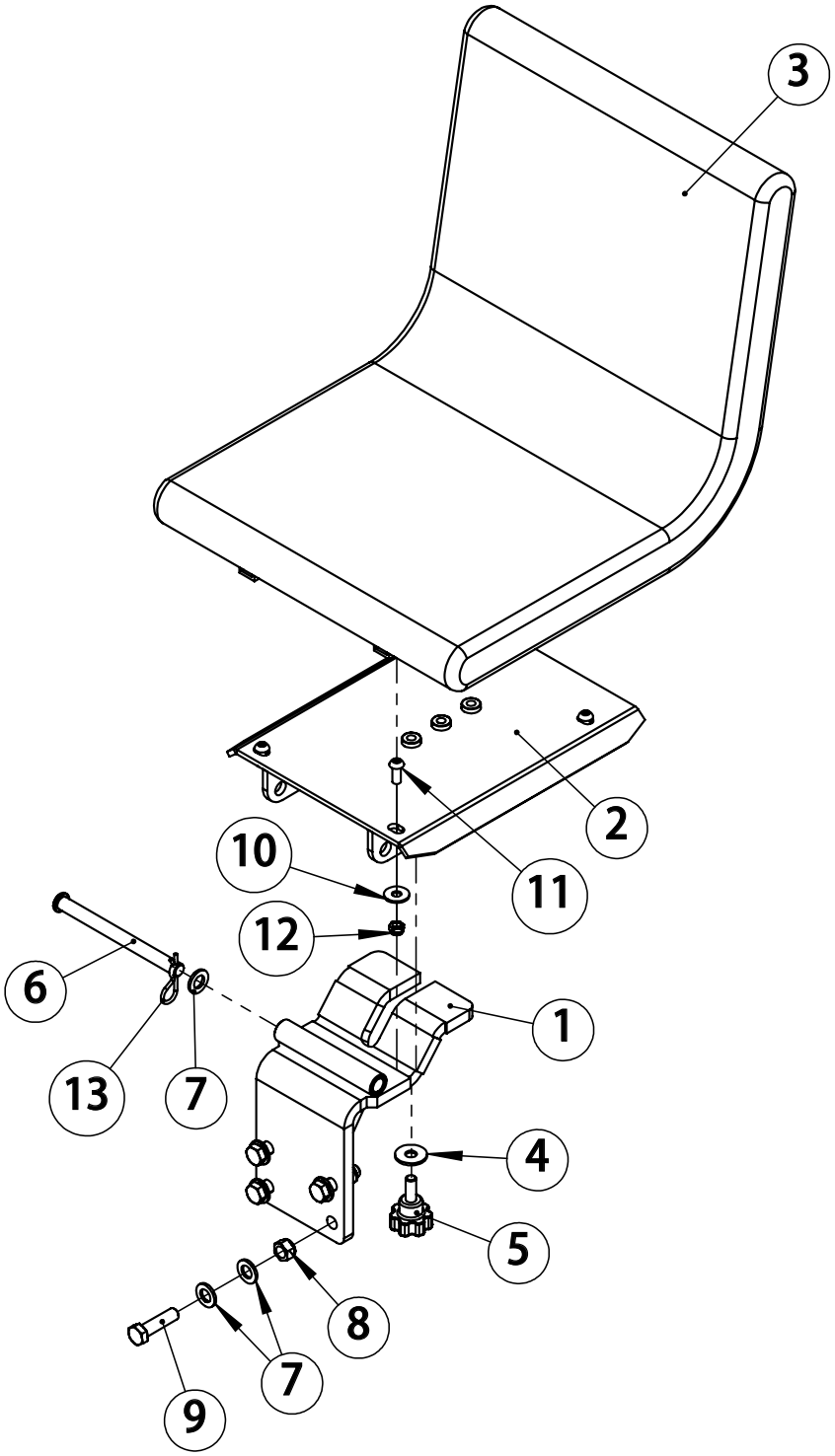
PARTS DIAGRAM (CONSOLE ASSEMBLY)



PARTS LIST (CONSOLE ASSEMBLY)

ITEM	DESCRIPTION	SPECIFICATION	QTY
1	Front cover plate of control cabinet	BHO76-013	1
2	Plate	BHO76-195	1
3	Poles	BHO76-194	1
4	Plain Washers - Large Series	GB_T96.2-8-EP_Zn	7
5	Spring washer	GB_T93-8×2.1-EP_Zn	11
6	Hexagon Socket Button Head Screws	GB_T70.2-M8×20-8.8-EP_Zn	7
7	Plain Washer	GB_T95-8-EP_Zn	4
8	Hexagon Head Bolt - Full Thread	GB_T5783-M8×45-8.8-EP-Zn	4
9	Manual canister	TM001	1
10	Hexagon Socket Countersunk Head	GB_T70.3-M6×16-8.8-EP_Zn	3

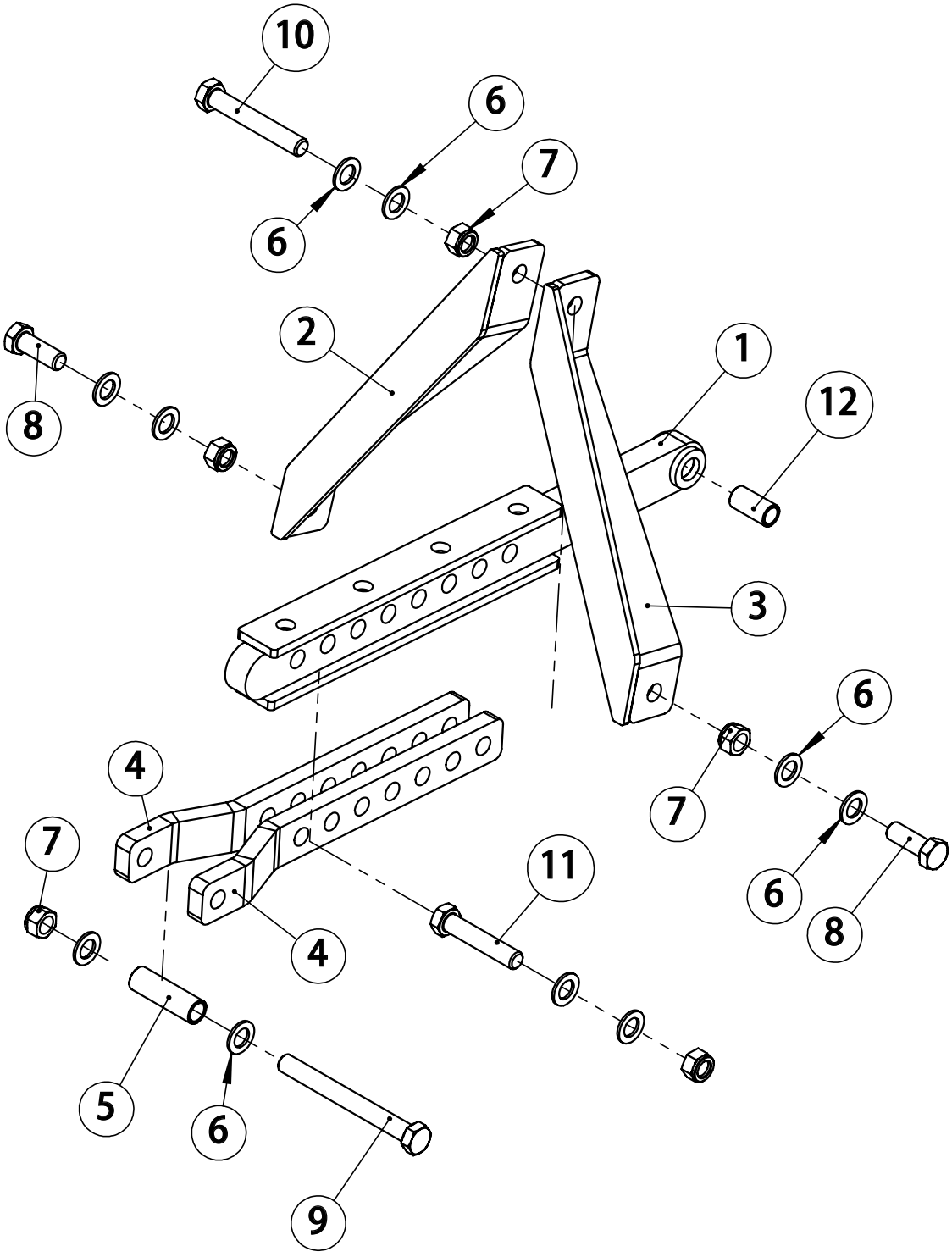
PARTS DIAGRAM (SEAT ASSEMBLY)



PARTS LIST (SEAT ASSEMBLY)

ITEM	DESCRIPTION	SPECIFICATION	QTY
1	Base support plate welding	BHO76-014	1
2	Bottom plate welding	BHO76-015	1
3	Chair	XR-7	1
4	Plain Washers - Large Series	GB_T96.2-10-EP_Zn	1
5	Rubber-red	M10×25	1
6	Pin	BHO76-208	1
7	Plain Washer	GB_T95-12×2.5-EP_Zn	9
8	Prevailing torque type hexagon nut	GB_T889.1-M12-8-EP_Zn	4
9	Hexagon Head Bolt - Full Thread	GB_T5783-M12×45-8.8-EP-Zn	4
10	Plain Washers - Large Series	GB_T96.2-8-EP_Zn	4
11	Hexagon Socket Button Head Screws	GB_T70.2-M8×20-8.8-EP_Zn	4
12	Prevailing torque type hexagon nut	GB_T889.1-M8-8-EP_Zn	4
13	Spring Cotters	Φ3×50EP_Zn	1

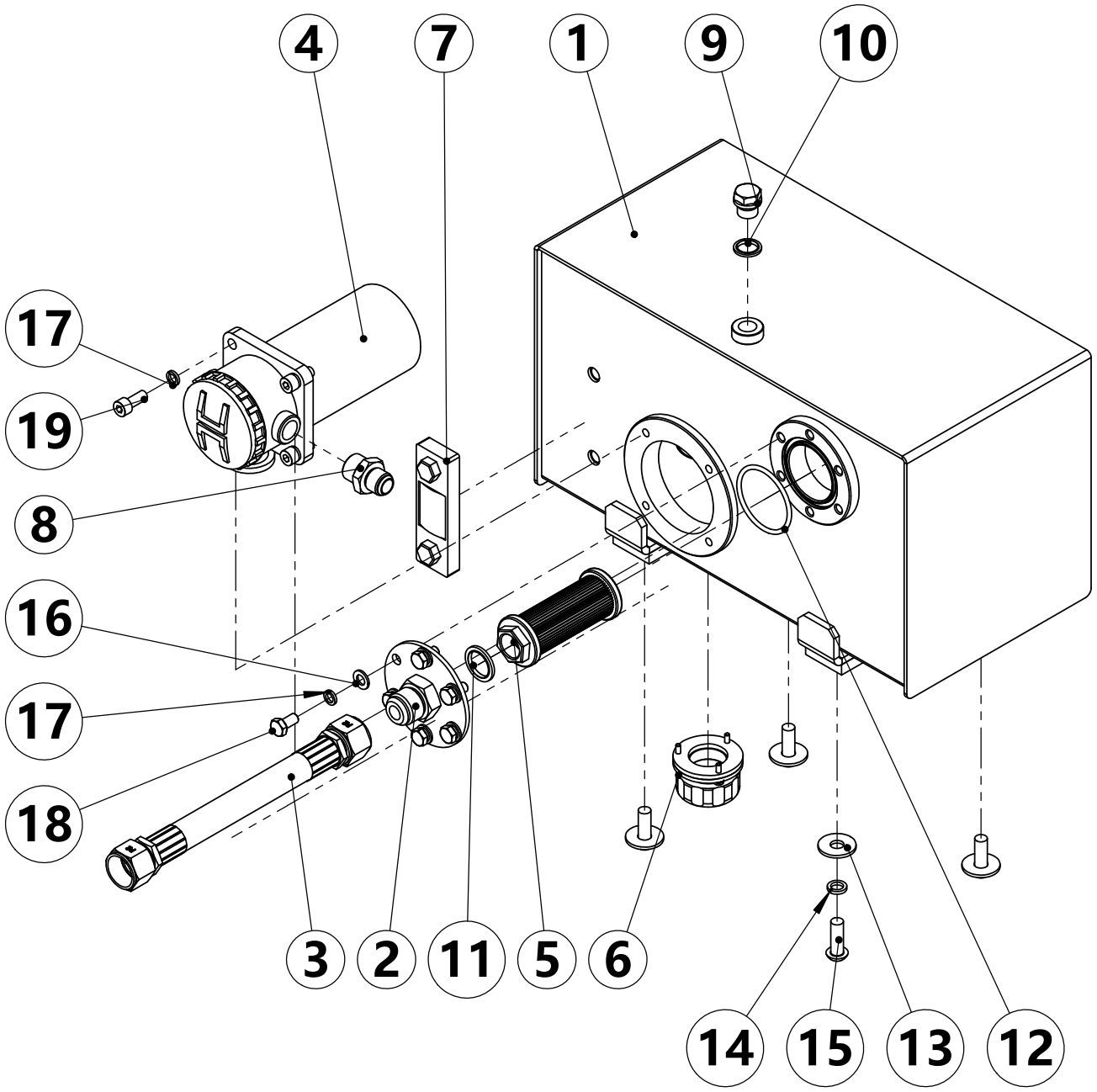
PARTS DIAGRAM (BASE CONNECTING ROD ASSEMBLY)



PARTS LIST (BASE CONNECTING ROD ASSEMBLY)

ITEM	DESCRIPTION	SPECIFICATION	QTY
1	Pull Rod assembly	BHO76-016	1
2	Base connecting rod welding	BHO76-017	1
3	Base connecting rod welding	BHO76-018	1
4	Poles	BHO76-193	2
5	Tube	BHO76-209	1
6	Plain Washer	GB_T95-20×3-EP_Zn	10
7	Prevailing torque type hexagon nut	GB_T889.1-M20-8-EP_Zn	5
8	Hexagon Head Bolt - Full Thread	GB_T5783-M20×55-8.8-EP-Zn	2
9	Hexagon Head Bolts	GB_T5782-M20×190-8.8-EP_ZN	1
10	Hexagon Head Bolts	GB_T5782-M20×130-8.8-EP_ZN	1
11	Hexagon Head Bolts	GB_T5782-M20×100-8.8-EP_ZN	1
12	suspension pin shaft spacer	BHO76-221	1

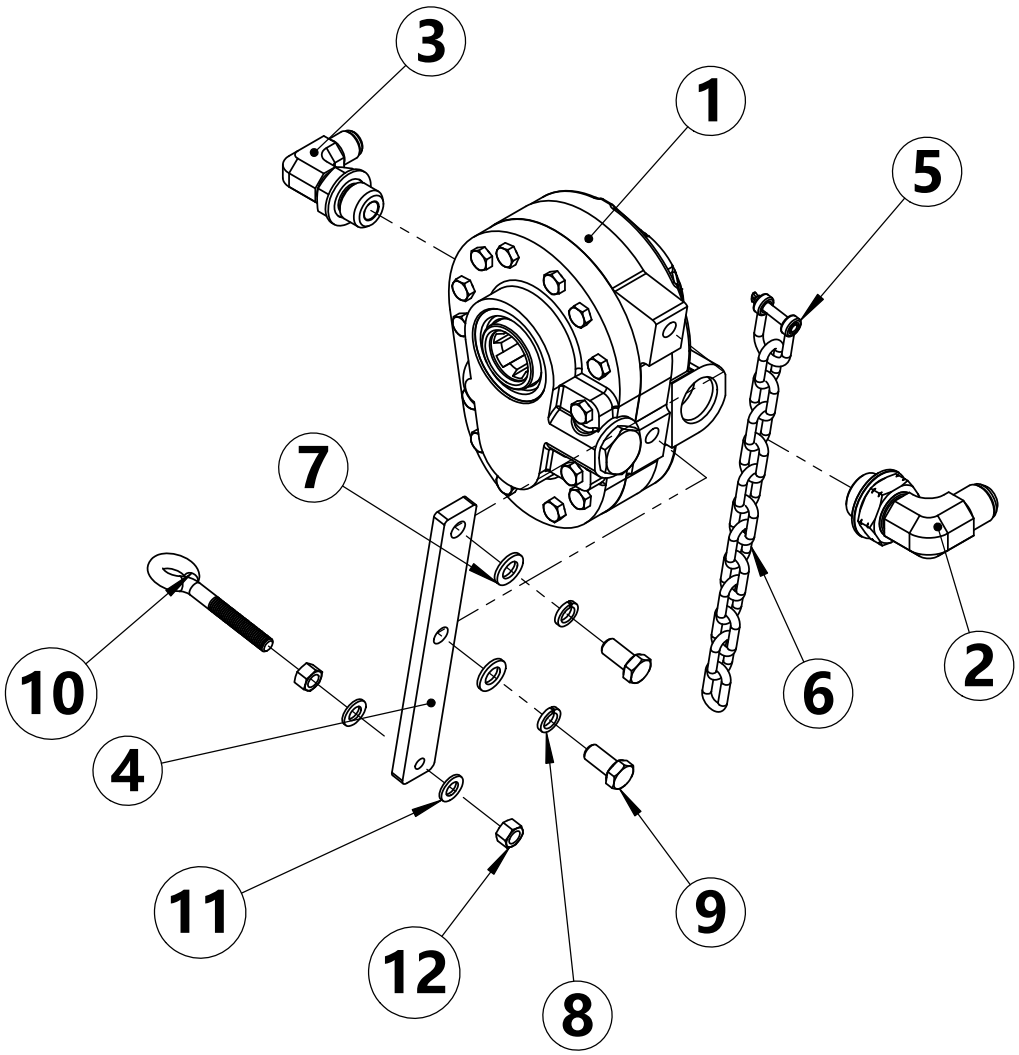
PARTS DIAGRAM (THE FUEL TANK ASSEMBLY)



PARTS LIST (THE FUEL TANK ASSEMBLY)

ITEM	DESCRIPTION	SPECIFICATION	QTY
1	The fuel tank welding	BHO76-019	1
2	Breather filter	BHO76-020	1
3	Hydraulic Hose	BHO-138	1
4	Breather filter	RFA-25-10L	1
5	Breather filter	WU-25X100-J	1
6	BREATHER FILTER SERIES	AF22	1
7	Content gauge	YWZ-80T	1
8	Transition joints	M22×1.5ED/UNF3/4-16	1
9	Outer hexagonal plug	JB_ZQ4770-M16x1.5	1
10	Combined sealing gaskets	BS/ A16.4x22x25- M16	1
11	Combined sealing gaskets	BS/ A22.5x30x2.5-M22	1
12	O-ring	NBRΦ60x3.5	1
13	Plain Washers - Large Series	GB_T96.2-10-EP_Zn	4
14	Spring washer	GB_T93-10x2.6-EP_Zn	4
15	Hex socket flat round head screw	GB_T70.2-M10x30-N	4
16	Plain Washer	GB_T95-8-EP_Zn	6
17	Spring washer	GB_T93-8x2.1-EP_Zn	10
18	Hexagon Head Bolt - Full Thread	GB_T5783-M8x16-8.8-EP-Zn	6
19	Hexagon socket head cap screws	GB_T70.1-M8x20-8.8-EP_Zn	4

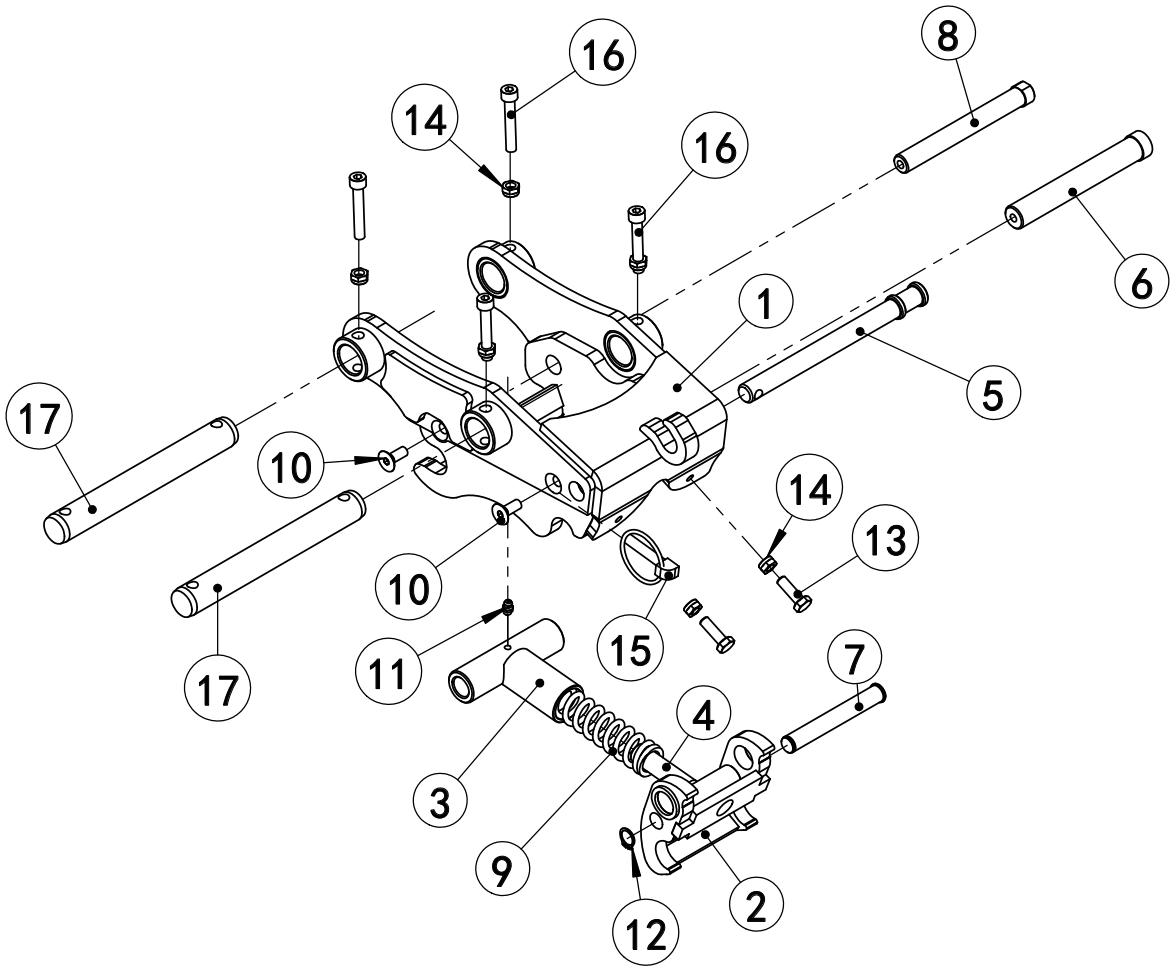
PARTS DIAGRAM (PTO PUMP ASSEMBLY)



PARTS LIST (PTO PUMP ASSEMBLY)

ITEM	DESCRIPTION	SPECIFICATION	QTY	
			76/86	66
1	Hydraulic pump	CBP56LJ42H21	1	-
1	Hydraulic pump	CBP46LJ42H21	-	1
2	Transition joints	UNF1-1/6-12/UNF1-5/16-12	1	1
3	Transition joints	UNF3/4-16/ UNF1-1/6-12	1	1
4	Plate	BHO76-192	1	1
5	D-ring 8	JB_8112-8mm	1	1
6	Galvanized chain-25	8×30×28-25	1	1
7	Plain Washer	GB_T95-12x2.5-EP_Zn	2	2
8	Spring washer	GB_T93-12x3.1-EP_Zn	2	2
9	Hexagon Head Bolt - Full Thread	GB_T5783-M12x25-8.8-EP-Zn	2	2
10	Bolt	GB_T896-M10x50(Φ14-90)-4.6-EP-Zn	1	1
11	Plain Washer	GB_T95-10x2-EP_Zn	2	2
12	Hexagon Nut	GB_T41-M10-EP_Zn	2	2

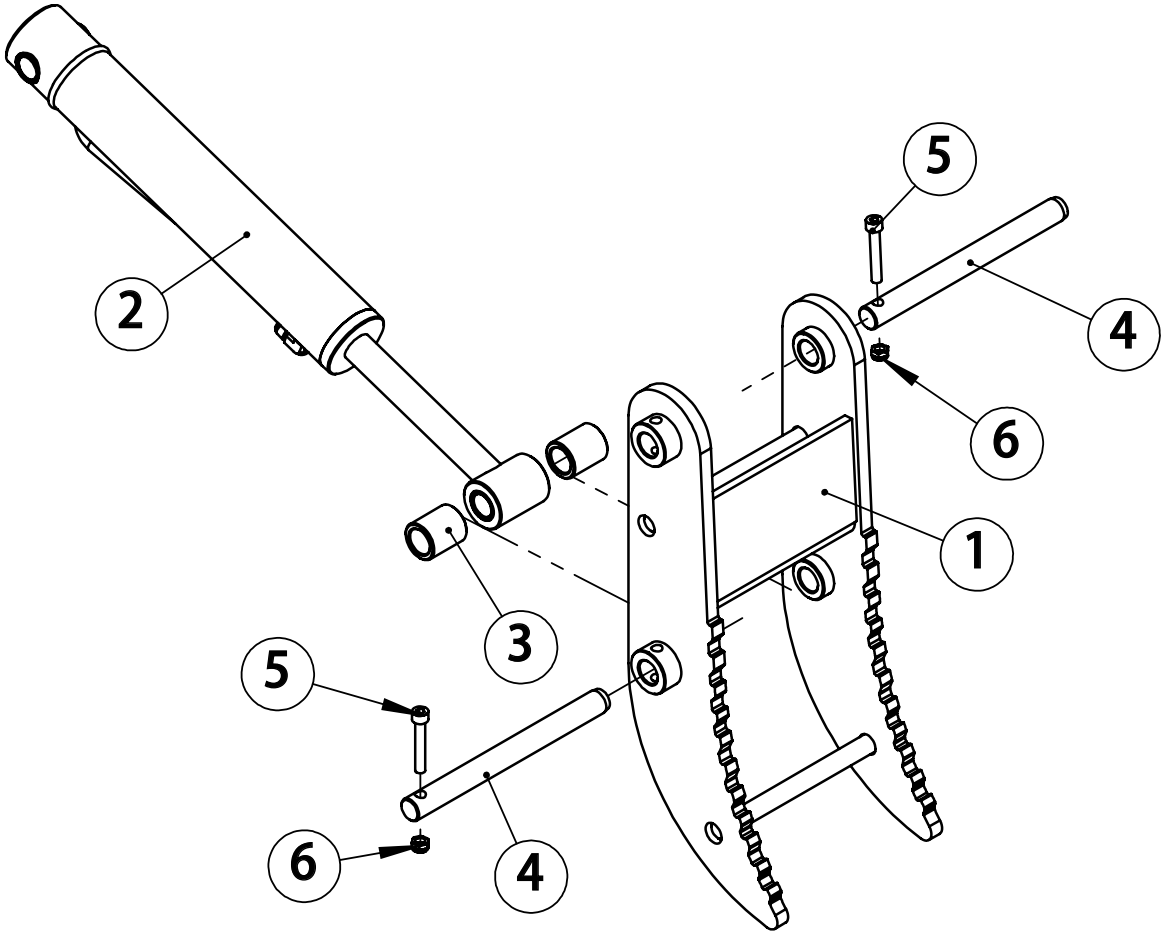
PARTS DIAGRAM (QUICK CHANGE SYSTEM)



PARTS LIST (QUICK CHANGE SYSTEM)

ITEM	DESCRIPTION	SPECIFICATION	QTY
1	QR Bracket Weldment	BHO76-022	1
2	Latch Hook Weldment	BHO76-023	1
3	Latch Rod Weldment	BHO76-024	1
4	Front Rod Weldment	BHO76-025	1
5	Pin	BHO76-210	1
6	Pin	BHO76-211	1
7	Pin	BHO76-212	1
8	Pin	BHO76-213	1
9	Spring	Φ27×100-Φ4.5	1
10	Hexagon Socket Countersunk Head Screw	GB_T70.3-M8×20-8.8-EP_Zn	2
11	Grease nipple	JB_T7940.1-M6×1	1
12	Circlip for shaft-type	GB_T894-14-A	1
13	Hexagon Head Bolt - Full Thread	GB_T5783-M8×25-8.8-EP-Zn	2
14	Prevailing torque type hexagon nut	GB_T889.1-M8-8-EP_Zn	6
15	Safety pin 8	DIN 11023-8X45-EP-Zn	1
16	Hexagon socket head cap screws	GB_T70.1-M8×50-8.8-EP_Zn	4
17	Pin	BHO76-219	2

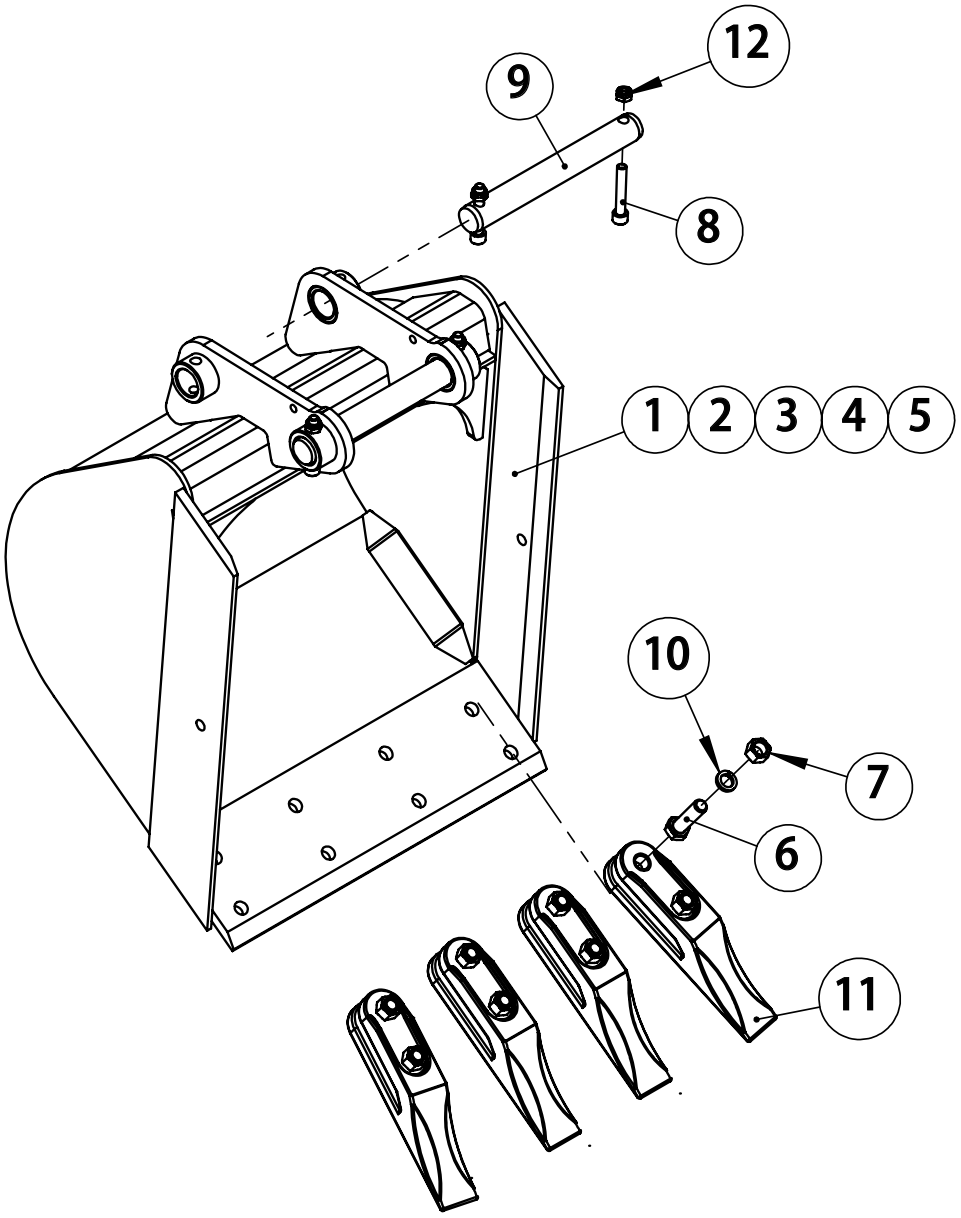
PARTS DIAGRAM (HYDRAULIC LOG GRAB COMPONENTS)



PARTS LIST (HYDRAULIC LOG GRAB COMPONENTS)

ITEM	DESCRIPTION	SPECIFICATION	QTY
1	Hold fork Weldment	BHO76-027	1
2	Hydraulic cylinder	BHO-137	1
3	Tube	BHO76-214	2
4	Pin	BHO76-218	2
5	Hexagon socket head cap screws	GB_T70.1-M8×50-8.8-EP_Zn	2
6	Prevailing torque type hexagon nut	GB_T889.1-M8-8-EP_Zn	2

PARTS DIAGRAM (BUCKET ASSEMBLY)



PARTS LIST (BUCKET ASSEMBLY)

ITEM	DESCRIPTION	SPECIFICATION	QTY				
			9"	12"	15"	20"	24"
1	Bucket welding parts 9"	BHO-026	1	-	-	-	-
2	Bucket welding parts 12"	BHO66-026	-	1	-	-	-
3	Bucket welding parts 15"	BHO76-026	-	-	1	-	-
4	Bucket welding parts 20"	BHO-026	-	-	-	1	-
5	Bucket welding parts 24"	BHO-026	-	-	-	-	1
6	Hexagon Head Bolt - Full Thread	GB_T5786-M12×1.5×45-8.8-EP_ZN	6	6	8	10	12
7	Hexagon Nut	GB_T6171-M12×1.5-EP_Zn	6	6	8	10	12
8	Hexagon socket head cap screws	GB_T70.1-M8×50-8.8-EP_Zn	4	4	4	4	4
9	Pin	BHO76-216	2	2	2	2	2
10	Spring washer	GB_T93-12×3.1-EP_Zn	6	6	8	10	12
11	Scraper Knife	BHO76-214	3	3	4	5	6
12	Prevailing torque type hexagon nut	GB_T889.1-M8-8-EP_Zn	4	4	4	4	4

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