

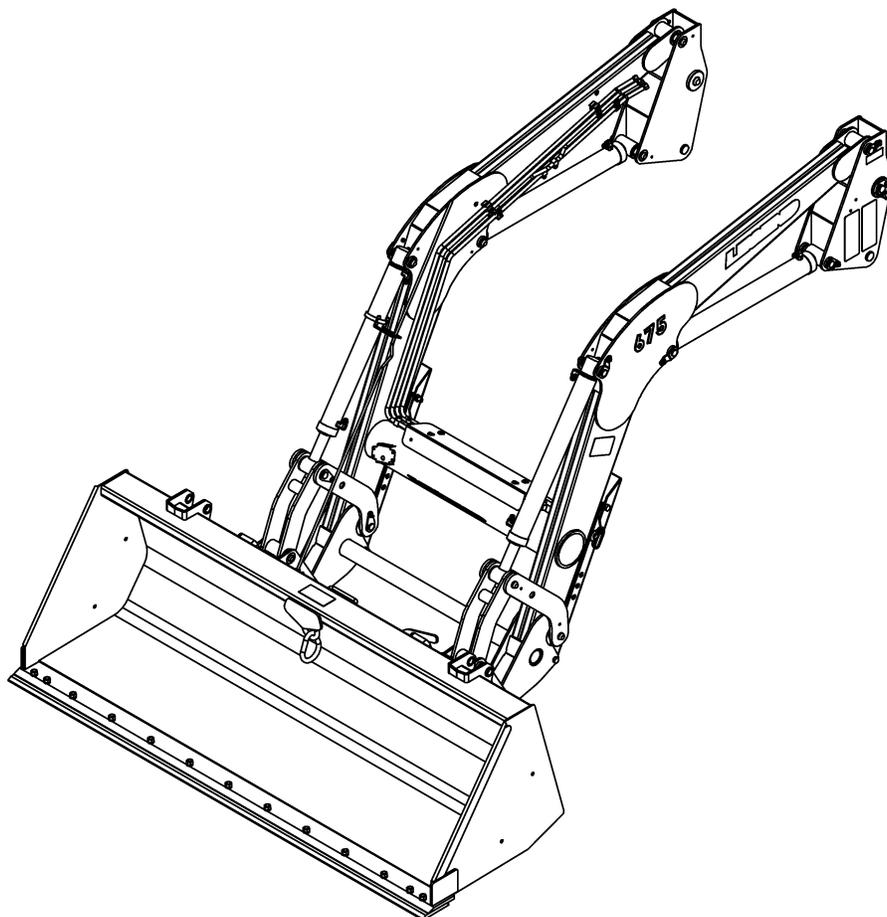
OWNERS MANUAL

MANUAL NO.
698327

6/29/17

LEGEND

675 LOADER



**IMPORTANT-KOYKER DEALER
BE SURE THIS MANUAL IS GIVEN TO THE
PURCHASER FOR FUTURE REFERENCE
KOYKER MANUFACTURING CO., P.O. BOX 409
LENNOX, SD 57039**

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INTRODUCTION

Koyker Manufacturing Inc. has engineered and manufactured a Legend Loader that includes the features YOU want in a top-of-the-line loader, including:

- Greaseless Pivot Connections
- Large Chrome Pivot Pins
- Bucket Linkage for Increased Roll Back Angle and Force
- Euro Attachment System
- Dual Torque Tubes
- Rounded Back Bucket
- Soft Ride Nitrogen Accumulator (Optional)

Koyker Manufacturing Inc. has created one of the best loaders in the market through consumer research, product testing and by using the latest technological enhancements to deliver what you've been asking for... a loader that will get the job done with ease.

TO THE PURCHASER

You have purchased an excellent product. With proper care and use, it will give you years of good safe service. Use only **KOYKER** or **KOYKER** approved parts in the general maintenance and repair of your equipment. **Please fill out ownership registration card as soon as possible.**

Should you have any questions, comments, improvements, or suggestions regarding the contents of any of the manuals provided, please contact Koyker Manufacturing Company. (800-456-1107 or E-mail koyker@koykermfg.com)

We care about your safety!

Remember ALL safety decals are no charge from the factory. Please replace all safety decals if missing or damaged. Your safety is important to us.

SAFETY ALERT SYMBOL

The symbol shown below is used to call your attention to instructions concerning your personal safety. Watch for this symbol it points out important safety precautions. It means **ATTENTION! Become Alert! Your Personal Safety Is Involved!**

Read the message that follows and be alert to the possibility of personal injury or death.

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

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

CAUTION: Indicates a potentially hazardous situation that, if not avoided may result in minor or moderate injury.



WARNING! Anyone who will operate or work around a front-end loader should first read this manual.

SAFETY

Improper use of a loader can cause serious injury or death. The following safety precautions, and those given on the tractor mount installation instructions, should be thoroughly understood before attempting to operate this machine.

BEFORE OPERATING:

Carefully study and understand this manual, the specific tractor mount instructions, and the attachment(s) manual(s).

Prior to operation, inspect the loader for system leaks and damaged, missing, or malfunctioning components in an effort to avoid the possibility of a dangerous failure involving structural members or hydraulic system components.

Be certain any repairs necessary are completed prior to loader operation.

Follow recommended maintenance procedures and precautions on Page 14.

Completely familiarize yourself and others involved with the operation of the hydraulic control valve before operating the loader.

Be certain all bystanders are clear of the machine and operation area prior to operation.

It may be necessary to add wheel ballast or rear weights as recommended by the tractor manufacturer to maintain stability of the machine to prevent tipping or upset which could result in serious injury or death. See mounting instructions for specific information.

It is recommended that both front and rear wheel treads be set to the widest recommended width to prevent tipping or upset which could result in serious injury or death.

This loader is designed for farm type operations such as snow removal, barn and feedlot cleaning, light commercial or light grading and digging. It's design is **NOT** intended for industrial use.

DURING OPERATION:

Never operate the machine other than from the tractor operator's seat.

Be sure operating area is clear of others during machine operations.

Never lift, hoist, or carry humans in the bucket or on any portion of the loader or loader attachments. Failure to heed, may result in serious injury or death.

SAFETY CONTINUED

Transport the machine load at the slowest speed possible and with the loader boom at the lowest transport position to avoid tipping or upsetting, which may result in serious injury or death.

Be extremely careful when working on inclines or near loose fill, rocks, and holes as they can cause tipping or upsetting which may result in serious injury or death.

Be certain to avoid overhead electrical wires when operating loader. Contact with power lines may cause serious injury or death.

Avoid sudden stops when lowering or lifting the loader boom to prevent loss of control over the machine and/or load, which may result in serious injury or death.

Use maximum ballast and the widest recommended wheel setting on your tractor when handling large shiftable loads.

Never attempt to ram with the bucket at high speed or full tractor power. Sudden impact may result in structural failure and possible serious injury or death.

Never adjust or perform maintenance on the loader or tractor with the unit in motion, or without power source locked out.

Never get under bucket or lift arms or reach through the lift arms or bucket linkage when the loader is in operation. Inadvertent movement may cause serious injury or death.

FOLLOWING OPERATION:

Whenever the machine is not in operation, lower the loader boom and set the tractor brakes, disengage drive, shut the engine off, and remove the ignition key before dismounting the tractor.

If loader is to be disengaged from tractor, be sure the loader is securely supported on a hard, level surface and the stand is securely engaged. Be certain all connections between tractor and loader are free before disengaging.

TRANSPORTING:

Use safety lights and SMV emblem in addition to whatever local codes require when equipment is being transported on the road or highway. Check with proper authorities for legal limitations.

Transport all loads at a slow and safe speed.

Carry the load as low as possible and maintain adequate visibility and good round clearance at all times.

SAFETY CONTINUED

PERFORMING MAINTENANCE:

Carefully review, understand, and follow the “maintenance” section in this owners manual before attempting to service loader.

Lower the bucket or attachment to the ground, shut off tractor engine, and relieve pressure in the hydraulic system before adjusting, or servicing the loader.

Escaping hydraulic oil under pressure can penetrate the skin. Never use any part of your body to check for hydraulic leaks. Use cardboard when checking for leaks. See Fig. 5-1. Relieve hydraulic pressure before disconnecting any hydraulic line. Failure to heed may result in serious injury or death.

Before disconnecting hydraulic lines, lower the loader and attachments. Lock out the hydraulic supply and relieve all hydraulic pressure.

Replace any damaged or painted-over decals. See Page 6 for replacement decals.

REMEMBER:

1. Move Slowly!
2. Always use care and common sense!
3. Be careful for your own sake and for that of others!
4. Koyker Mfg. Co. includes all reasonable means for accident prevention except a safe and careful operator.

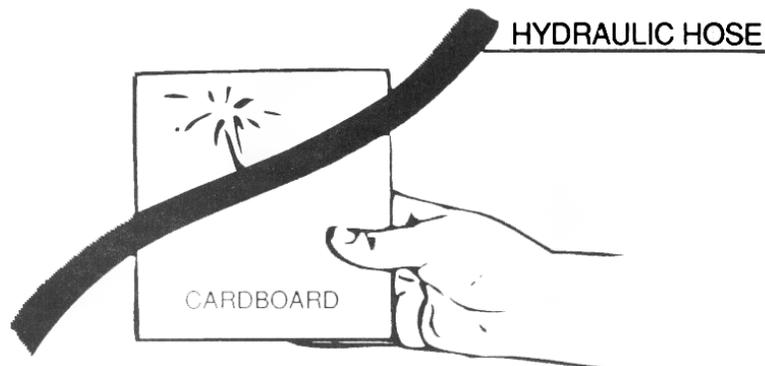
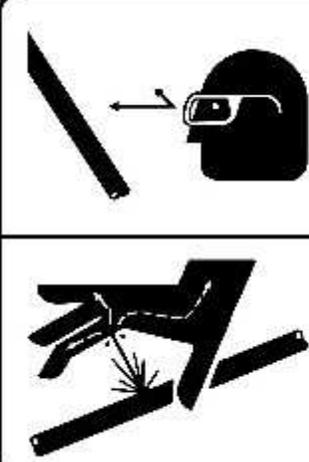


FIG. 5-1

SAFETY DECALS



⚠ WARNING

HIGH-PRESSURE FLUID HAZARD

To prevent serious injury or death:

- Relieve pressure on hydraulic system before servicing or disconnecting hoses.
- Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- Keep all components in good repair.
- Refer to owners manual if injury should occur.

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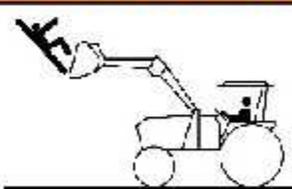
⚠ WARNING



To avoid injury or death caused by falling loads:

- Do not handle round bales unless loader is equipped with approved bale handling attachments.
- Handle raised loads with caution.
- Carry load low.
- Read operators manual.

⚠ WARNING



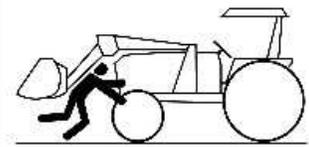
To avoid injury from falls:

- Do not work from or allow riders on loaders or its attachments.

KOYKER MFG CO. INCLUDES ALL REASONABLE MEANS FOR ACCIDENT PREVENTION EXCEPT A SAFE AND CAREFUL OPERATOR.

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⚠ WARNING



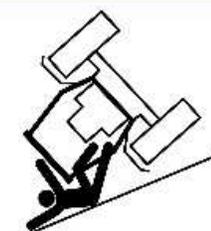
To avoid injury from falling loader:

- Do not walk or perform service under a raised loader.
- Lower loader to ground when parked.

KOYKER MFG CO. INCLUDES ALL REASONABLE MEANS FOR ACCIDENT PREVENTION EXCEPT A SAFE AND CAREFUL OPERATOR.

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⚠ DANGER



Serious injury or death can result from rollovers.

- Use rops and seatbelt at all times.
- Add required rear ballast.
- Move wheels to widest recommended setting.
- Operate tractor at low seeds.
- Carry all loads close to ground.

⚠ DANGER



Serious injury or death can result from contact with electric lines.

KOYKER MFG CO. INCLUDES ALL REASONABLE MEANS FOR ACCIDENT PREVENTION EXCEPT A SAFE AND CAREFUL OPERATOR.

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TRACTOR & SAFETY POINTERS

The use of good judgment and common sense is necessary by the operator in using this loader. The front and rear wheels should be set for the widest wheel tread to assure best stability. Use extra caution when rear wheel weights and tire ballast are added to a loader-equipped tractor. **DO NOT** ram into frozen dirt piles, frozen manure piles, ice, etc., with great momentum where sudden shock loads are encountered. Serious and costly damage may result to both the loader and the tractor.

When scraping or back dragging do not extend the attachment cylinders more than one half of the cylinder's stroke. A limited amount of leveling may be done, when the loader valving is arranged with a float control. This will prevent damage to cylinder rods. Never ride in the bucket.

Before operating the loader, be sure no one is standing near it. Only one person, the operator, should be on the tractor. Remain at the controls and under no circumstances leave the tractor unattended with the bucket in a raised position.

Never lift a person in the bucket or walk under a raised bucket.

Never drive your loader-equipped tractor down a hill that is steeper than 15 degrees. Carry all loads low and use care on side hills.

Always keep unused PTO shaft clutch levers disengaged.

Keep hands, feet, and clothing away from all moving parts.

Hydraulic oil, under pressure, can cause injury. Be sure that all connections are tight and that all pressure is relieved before disconnecting any lines.

Care must be taken with your loader cylinders. Nicks, scratches, rust, or other shaft damage can result in worn packing causing cylinder leakage and subnormal performance.

MOVE SLOWLY

USE COMMON SENSE

BE CAREFUL FOR YOUR OWN SAKE AND THAT OF OTHER PEOPLE

ATTACHING LOADER



IMPORTANT:

Never attempt loader attachment on grades which are not reasonably level.



Fig 8-1

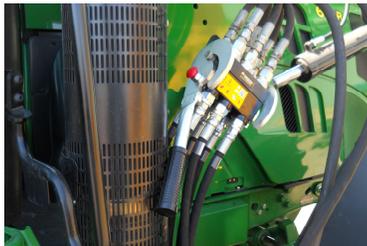


Fig 8-2



Fig 8-3



Fig 8-4



Fig 8-5

1. Check to be sure that the surfaces of the mounts are free of obstructions. (Fig 8-1)
2. Drive the tractor slowly and carefully in between the loader arms only far enough to permit hook-up of the hydraulic system hoses. (Fig. 8-2)
3. Once all hoses have been properly coupled drive the tractor forward checking to insure that the bottom mount shaft on each loader upright clears the bottom cradle on each mount tower. (Fig. 8-3)
4. Allow the alignment collars at the top of each upright to settle against the top cradle of each mount tower. (Fig. 8-3)
5. To lock the loader onto the mount, install the two 669514 – 1 3/8” diameter mount pins into the outside of the upright through the mount tower, and trap the mount pin with a 683912 lockpin on the outside of each loader upright. (Fig. 8-3)
6. After both uprights are secured to the mounts, raise the loader to disengage and store the loader stands with provided mount pins. (Fig 8-4) & (Fig 8-5)
7. Prior to operation, be certain to review all safety and operation information contained within this manual.

ATTACHING BUCKET

1. For attachment of the bucket, first tilt the bucket adapter forward so the adapter top bars are below the top hooks (mounts) on the back of the bucket. (Fig. 9-1) While slowly driving forward, raise the loader and tilt the bucket adapter rearward until the adapter comes in contact with bucket cross bars. (Fig. 9-2) Once the adapter is firmly engaged, continue to tilt the bucket rearward until the lower cross bar of the adapter firmly contacts the back of the bucket. Carefully push the latch handles off of their rest or over center (Fig. 9-3), and allow them to engage, locking the bucket in place. (Fig. 9-4) If the bucket is mounted with a grapple, auxiliary hydraulic lines will need to be connected prior to operation.



Fig. 9-1



Fig. 9-2



Fig. 9-3



Fig. 9-4

DETACHING LOADER



IMPORTANT:

Never attempt loader attachment on grades which are not reasonably level.



Fig 10-1



Fig 10-2



Fig 10-3

1. Raise loader frame slightly to permit loader stand reengagement. (Fig. 10-1)
2. Lower bucket to ground and tip slightly forward to apply pressure to mount connection. Note: This will prevent the loader from inadvertently rocking forward when the mount pins are removed and uprights are disengaged from it's cradle. (Fig. 10-2)
3. Remove the 683912 lockpin trapping the 669514 mount pin, and remove this pin also. Store the 669514 mount pin in the torque tube. Replace the 683912 locking pin into it's prior location. (Fig. 10-3)
4. Then tilt the bucket back to rotate the bottom mount shaft from the mount tower cradle. Then tilt the bucket further back to rotate the upright up and out of the mount tower, and into a storage position. (Fig. 10-4)
5. Before completely backing out, disconnect and store the loader system hydraulic hoses. It is important that the hoses be properly stored to keep the coupler as clean as possible. (Fig 10-4)

IMPORTANT:

Never store the detached loader where insufficient soil bearing capacity exists. Good firm clay or firmly packed dirt are sufficient, providing the area is dry. If you are unsure, use blocking under the stand foot to disperse the load. Failure to heed, may allow the loader to settle and prevent attachment at later date.



Fig 10-4

DETACHING BUCKET

1. If the bucket is mounted with a grapple the auxiliary hydraulic lines need to be disconnected prior to detachment of the bucket. For detachment of the bucket, first ensure the bucket is resting on flat ground. Disengage the handle latch pins (Fig. 11-1) and position them onto their rest positions. (Fig. 11-2) Slowly lower the loader while tilting the bucket adapter forward. (Fig. 11-3) Drive rearward until euro/global adapter has cleared the bucket. (Fig. 11-4)



Fig 11-1



Fig 11-2



Fig 11-3



Fig 11-4

OPERATION



WARNING:

Never allow anyone to operate the loader until they have carefully reviewed and understood this owners manual.

FILLING THE BUCKET:

When manure is piled on a slope, it is best to drive tractor up the slope straight into the pile. Operating sideways on a slope has a tendency to tip the loading unit. Drive tractor straight into the pile, raise the bucket about six inches, then drop bucket and drive forward until the bucket is filled. Tilt bucket completely back, raise main frame and back away from manure pile.

DUMPING THE BUCKET:

When dumping, bring the bucket to proper dumping height which is just high enough so it will not strike the spreader as the load is being dumped. With the bucket tipped, drive tractor forward and raise the bucket at the same time to distribute the load evenly into spreader or conveyance.

RAISING THE BUCKET:



WARNING:

Make sure material in bucket cannot spill out on to tractor when loader boom is raised. Keep clear of overhead obstructions such as trees, limbs or power lines when raising the bucket.

Side cutting is the best method of reducing large stockpiles. If the sides of the pile are too high, use the loader to pull them down and reduce the possibility of slides.

Make sure you keep all lines, cylinders, and complete hydraulic system free of all sand, dirt, and foreign matter. Use only clean oil in the hydraulic system. When removing the loader from the tractor, be sure to plug all open ports. If the loader will be out of service for several days or longer, grease the exposed polished piston shafts on the bucket and the lift cylinders.

WARNING:



NEVER attempt to operate the loader with someone near the loader frame or bucket.

If this loader is equipped with a Grapple fork, be sure Grapple teeth are closed before leaving seat of tractor.

SPECIFICATIONS

LEGEND 675 LOADER SPECIFICATIONS

Description of Equipment Rated

Loader Model	Legend 675
Attachment Adapter & Bucket Size.....	Euro/6' Bucket
Rated Flow	25 GPM
Maximum Pressure	2500 PSI
Lift Cylinder Dia.....	3" Bore
Attachment Cylinder Dia.	2 3/4" Bore
Tractor Horsepower Range	80-135 HP

Dimensional Specifications

(A) *Maximum Lift Height to Pivot Pin.....	12' 10"
(B) *Lift Height under Level Bucket.....	12'
(C) *Clearance with Bucket Fully Dumped.....	9' 10"
(D) *Reach at Maximum Lift Height.....	DNA
(E) Maximum Dump Angle	46°
(F) *Reach with Bucket on Ground.....	DNA
(G) Maximum Rollback Angle	30°
(H) *Digging Depth	7"
(J) *Overall Height in Carry Position	6' 3"

Operational Specifications

(U) *Lift Capacity to Maximum Height at Pivot Pin	4200 lbs.
(V) *Lift Capacity to Maximum Height 31.5" Forward of Pivot Pin.....	2900 lbs.
(Y) *Breakout Force at Ground Line at Pivot Pin	5380 lbs.
(Z) *Breakout Force at Ground Line 31.5" Forward of Pivot Pin.....	4030 lbs.
*Raising Time	6 seconds
*Lower Time.....	4 seconds
*Attachment Dumping Time	4 seconds
*Attachment Rollback Time	3 seconds

*Specifications based on ASABE standards S301.3 (Front-End Agricultural Loader Ratings) The above information is based on testing done by Koyker Mfg. Variations in maximum lift height and other specs for different tractors are due to tire sizes, variations in loader mounting locations and hydraulic system efficiency.

Specifications are subject to change without notice and without liability therefore.

LOADER INSPECTION, SERVICE, AND MAINTENANCE

Lower the bucket to the ground, shut off tractor engine, and relieve the pressure in the hydraulic system before adjusting, lubricating, or servicing the loader.

Periodically check all bolts for looseness and re-torque if necessary.

Before storage, be certain all hydraulic cylinders are fully collapsed so that the rod will not be exposed to the elements or damaged.

Be certain hydraulic system remains sealed at all times to prevent contamination.

Check and maintain an adequate fluid level in the tractor reservoir prior to use.

Inspect all hydraulic system hoses and fittings. Replace prior to further operation if damaged.

Periodically inspect the two grease fittings for the engagement pins. See page 21 for adapter break parts diagram.



WARNING!

Escaping hydraulic oil under pressure can penetrate the skin. Never use body to check for hydraulic leaks. Use cardboard when checking for leaks. See Fig. 13-1. Relieve hydraulic pressure before disconnecting any hydraulic line. Failure to heed may result in serious injury or death.

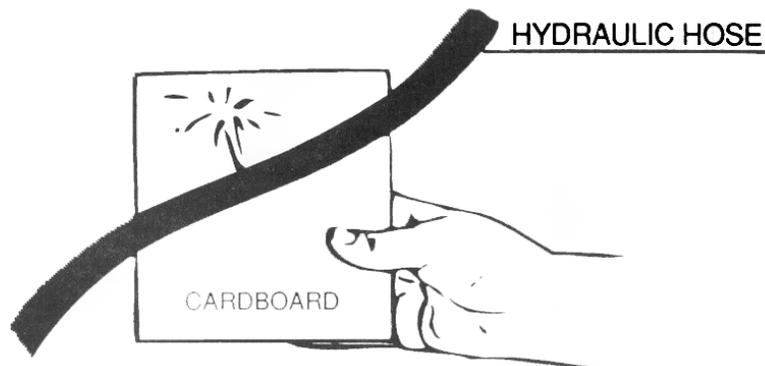
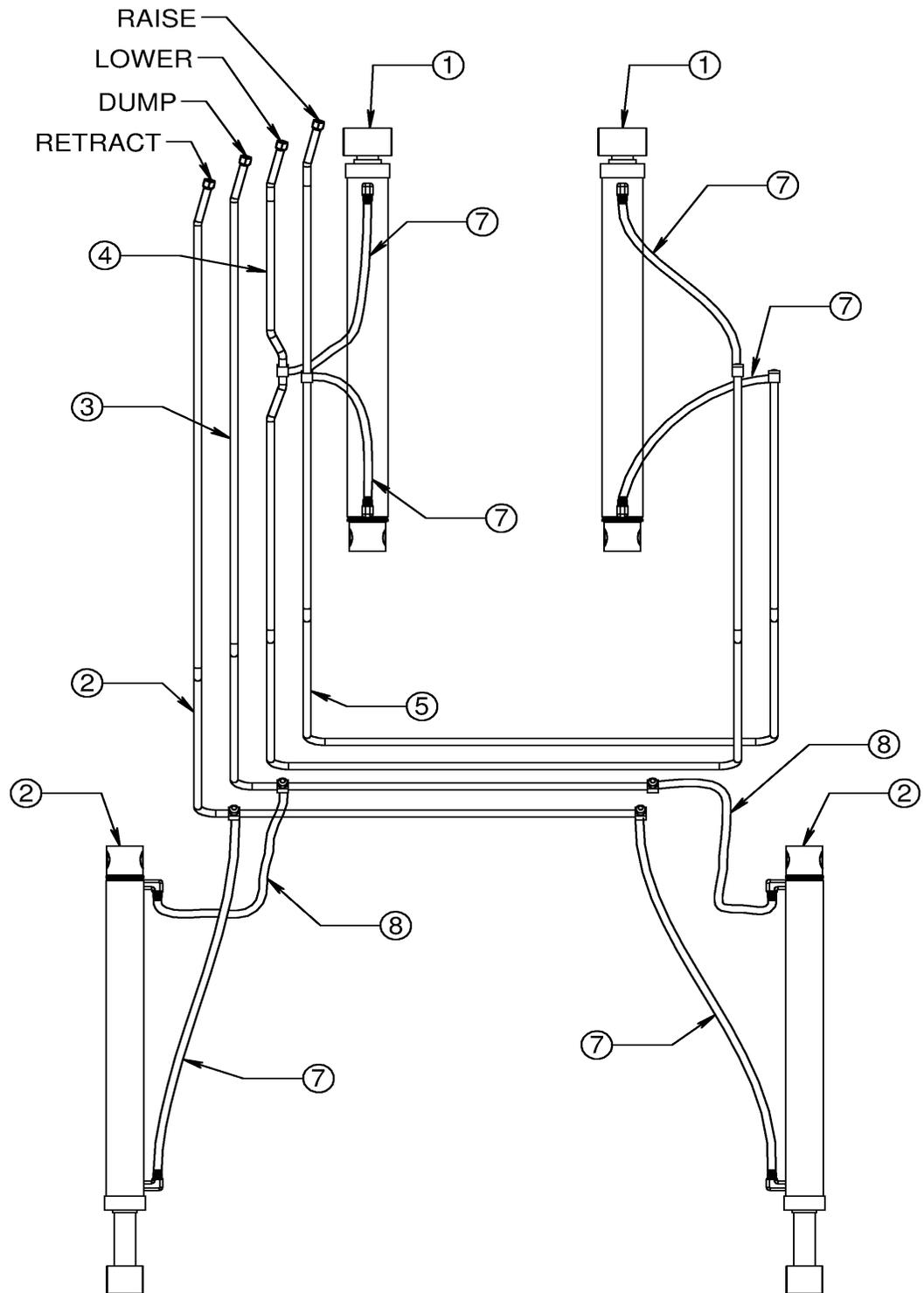


FIG. 13-1

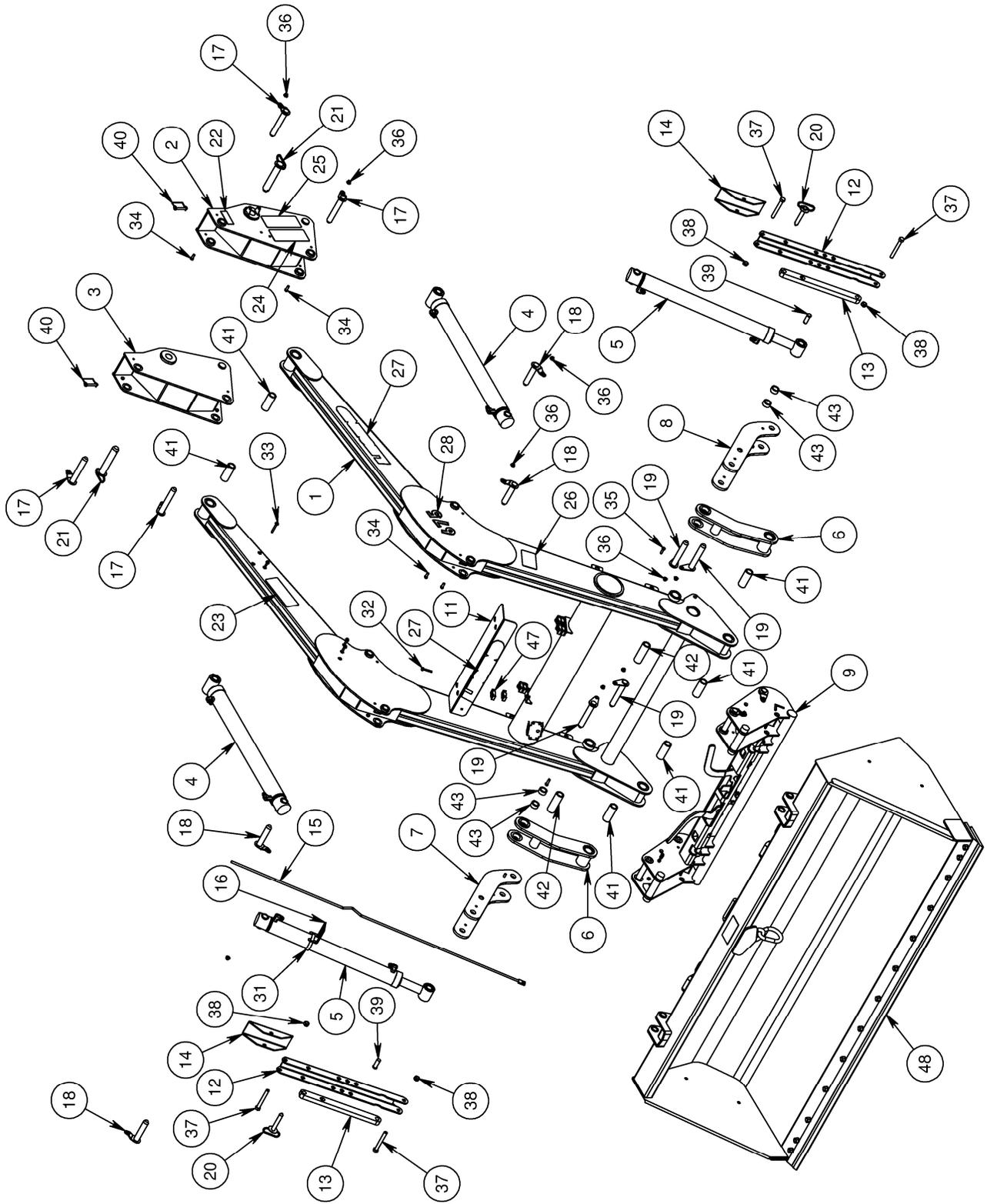
675 HYDRAULIC SYSTEM PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	696302	3" LIFT CYLINDER	2
2	696303	2 3/4' BUCKET CYLINDER	2
3	696381	1ST OIL LINE	1
4	696382	2ND OIL LINE	1
5	696383	3RD OIL LINE	1
6	696384	4TH OIL LINE	1
7	673799	20" HYDRAULIC HOSE	6
8	663328	26" HYDRAULIC HOSE	2

675 HYDRAULIC SYSTEM PARTS DIAGRAM



KOYKER "LEGEND 675" LOADER PARTS DIAGRAM



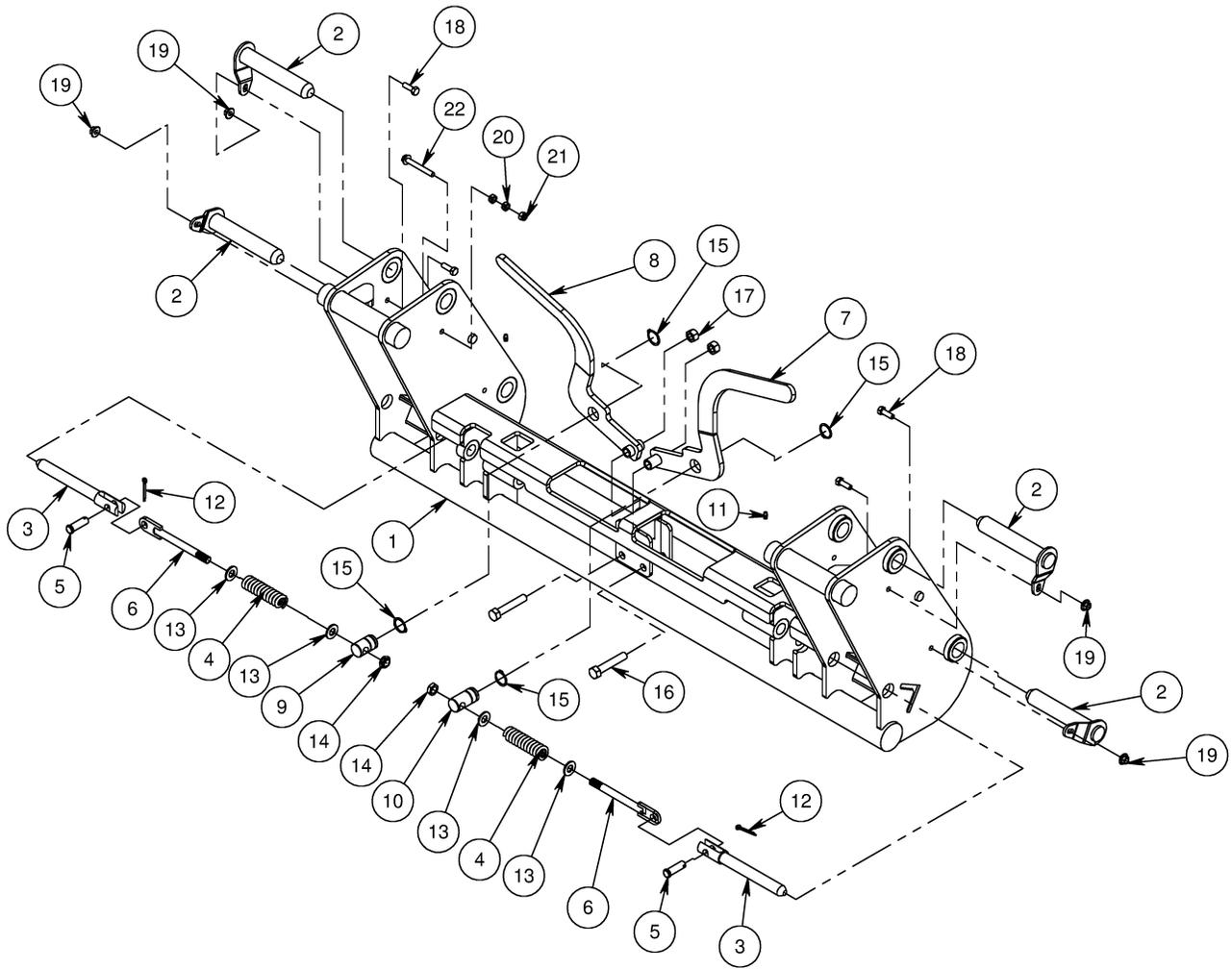
PARTS IDENTIFICATION SCHEDULE

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	696300	MAIN FRAME	1
2	695833	LH UPRIGHT	1
3	695840	RH UPRIGHT	1
4	696302	LIFT CYLINDER	2
5	696303	ATTACHMENT CYLINDER	2
6	696304	FRONT LINKAGE	2
7	696305	RH REAR LINKAGE	1
8	696306	LH REAR LINKAGE	1
9	696308	EURO ATTACHMENT ASSEMBLY	1
	696309	HYDRAULIC LINE PACAKGE	1
11	675076	OIL LINE COVER PLATE	1
12	696324	LEG STAND PLATE	2
13	696325	LEG SUPPORT PLATE	2
14	679288	LEG STAND FOOT	2
15	679709	INDICATOR ROD	1
16	680752	INDICATOR ROD PLATE	1
17	696392	PIVOT PIN; 1 1/8" x 6 5/8"	4
18	696312	PIVOT PIN; 1 1/8" x 5"	4
19	696313	PIVOT PIN; 1 1/8" x 6 1/4"	4
20	661983	PIN; 3/4" x 4 5/8"	2
21	669514	MOUNT PIN; 1 3/8" x 7 7/16"	2
22	666941	SERIAL NUMBER DECAL	1
23	666943	HYDRAULIC PRESSURE DECAL	5
24	666944	WARNING DECAL	1
25	666945	"DANGER DECAL"	1
26	666946	WARNING DECAL	2
27	689639	"LEGEND' DECAL - JOHN DEERE	3
28	696410	"675" DECAL	2
29	640246	#6 HITCH PIN	2
30	640671	#3 HITCH PIN	2
31	679789	3.25 - 4.125 HOSE CLAMP	1
32	673615	SCREW; 5/16" x 2"	4
33	676797	SCREW; 5/16" x 2 1/2"	5
34	698492	SCREW; 3/8" x 1"	8
35	698491	SCREW; 3/8" X 1 1/4"	2
36	701182	FLANGE NUT; 3/8"	12
37	640089	SCREW; 5/8" x 5"	4

PARTS IDENTIFICATION CONTINUED

ITEM NO.	PART NO.	DESCRIPTION	QTY.
38	640141	CENTERLOCK NUT; 5/8"	4
39	681165	CLEVIS PIN	2
40	683912	WIRE LOCK PIN	2
41	696322	NYLATRON BUSHING; 4"	6
42	696323	NYLATRON BUSHING; 4 7/8"	2
43	696324	NYLATRON BUSHING; 13/16"	4
44	687854	INSERT; 5/16"	6
45	673336	INSERT; 5/16"	4
46	676798	INSERT; 5/16"	4
47	672503	OIL LINE CLAMP	18
48	689070	7' EURO BUCKET ASSEMBLY	1
	689071	8' EURO BUCKET ASSEMBLY	1
	689072	8 1/2' EURO BUCKET ASSEMBLY	1

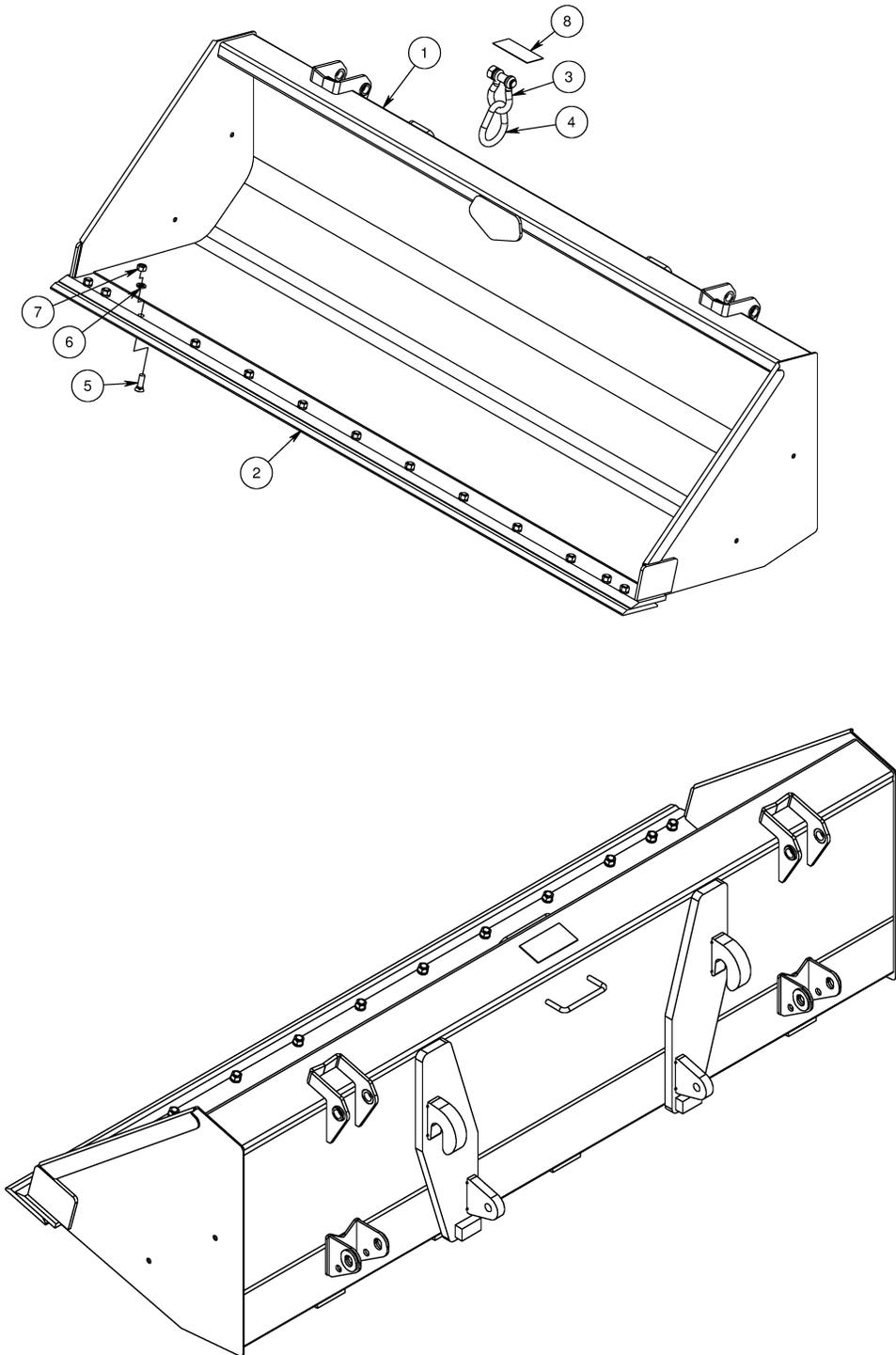
EURO/GLOBAL ADAPTER PARTS DIAGRAM



EURO ADAPTER PARTS IDENTIFICATION SCHEDULE

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	696400	EURO ADAPTER WELDMENT	1
2	696311	PIVOT PIN; 1.125 X 6.000	4
3	679304	PIVOT PIN; .787 (20 MM) X 8.000	2
4	675323	COMPRESSION SPRING	2
5	680761	CLEVIS PIN; .500 X 1.500	2
6	690353	HOOKUP PIN; .500	2
7	690346	RH HANDLE	1
8	690351	LH HANDLE	1
9	690421	MOUNT PIN; 1.000 X 1.625	1
10	690422	MOUNT PIN; 1.000 X 2.000	1
11	657632	GREASE ZERK	2
12	680768	COTTER PIN; .156 X 1.500	2
13	653098	FLATWASHER; .500	4
14	659885	FLEX NUT; .500-20	2
15	690326	EXTERNAL SNAP RING; 1.000	4
16	663701	SCREW; .500-13 X 2.750	2
17	640139	HEXNUT; .500-13	2
18	640016	SCREW; .3125-18 X 1.000	4
19	682524	FLANGE NUT; .3125-18	4
20	640128	NUT - .313-18 GR 2 CENTER LOCK	2
21	654141	.313-18 GR 2 NYLON INSERT LOCK NUT	1
22	676797	SCREW .3125-18 X 2.50 GR 5 HHSLDR	1

BUCKET PARTS DIAGRAM



BUCKET PARTS IDENTIFICATION SCHEDULE

Optional Euro Buckets with Bolt-on Blade & Clevis

7' Euro Bucket

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	689073G	7' EURO BUCKET WELDMENT	1
2	672847	7' BOLT ON BUCKET BLADE (PAINTED)	1
3	672852	BUCKET CLEVIS	1
4	673286	SLING LINK	1
5	673366	SCREW - .625-11 X 2.00 GR 5 PH	11
6	640159	WASHER - 5/8" SPRING LOCK	11
7	640142	NUT-.625-11 GR 5 HEX	11
8	672981	WARNING DECAL	1

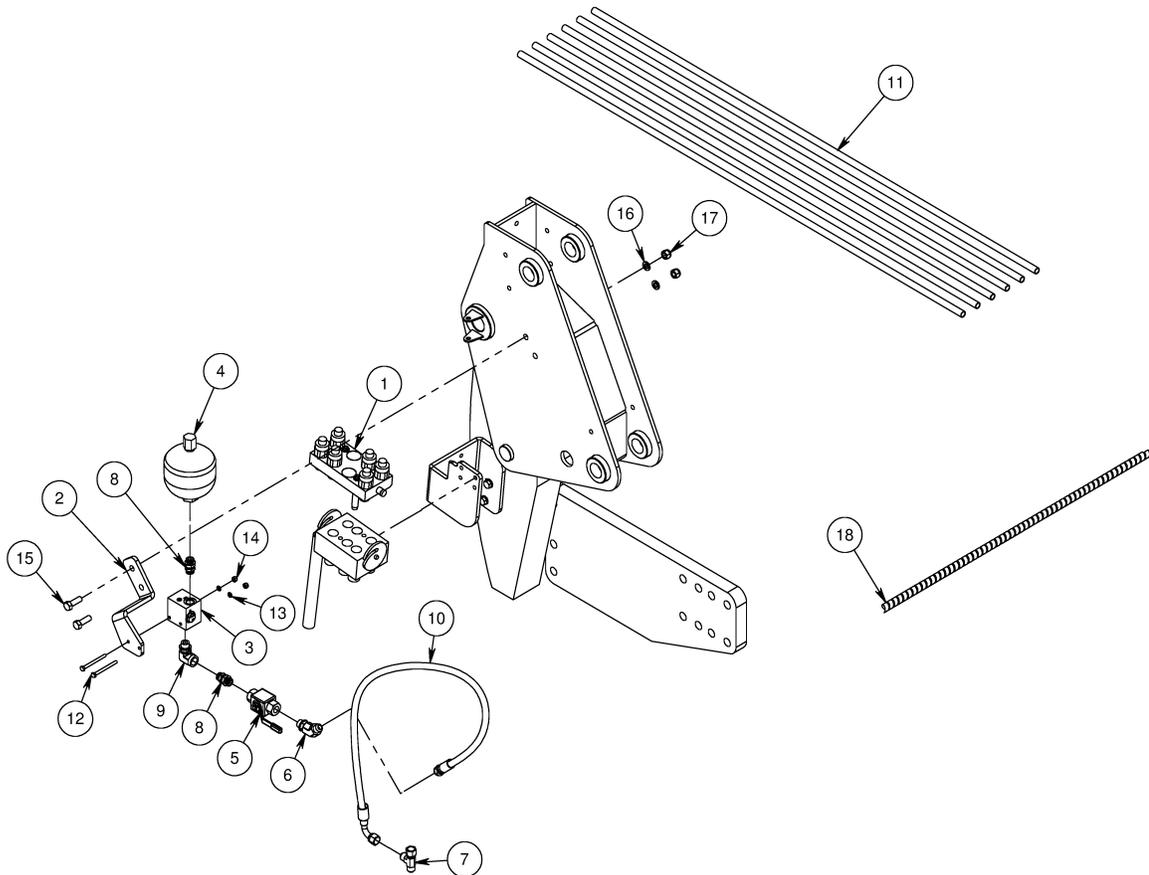
8' Euro Bucket

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	689074G	8' EURO BUCKET WELDMENT	1
2	672848	8' BOLT ON BUCKET BLADE (PAINTED)	1
3	672852	BUCKET CLEVIS	1
4	673286	SLING LINK	1
5	673366	SCREW - .625-11 X 2.00 GR 5 PH	13
6	640159	WASHER - 5/8" SPRING LOCK	13
7	640142	NUT-.625-11 GR 5 HEX	13
8	672981	WARNING DECAL	1

8' 6" Euro Bucket

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	699075G	8' 6" EURO BUCKET WELDMENT	1
2	679772	8' 6" BOLT ON BUCKET BLADE (PAINTED)	1
3	672852	BUCKET CLEVIS	1
4	673286	SLING LINK	1
5	673366	SCREW - .625-11 X 2.00 GR 5 PH	13
6	640159	WASHER - 5/8" SPRING LOCK	13
7	640142	NUT-.625-11 GR 5 HEX	13
8	672981	WARNING DECAL	1

MULTI-FASTER & ACCUMULATOR KIT PARTS DIAGRAM



SOFT RIDE FEATURE

The soft ride feature was designed to diminish the stresses on the tractor, mounts, loader and operator while transporting heavy loads to and from the field. The soft ride feature incorporates a pre-charged nitrogen accumulator to act as a shock absorber similar to that of an automobile. While in operation the loader may feel “squishy” or soft.

1. Mount the loader. Install multi-faster and kit as shown.
2. Locate the lift hose (bottom steel line) on the loader and trace back to multi-faster. Disconnect the corresponding hose on the bottom side of the multi-faster.
3. Install the run tee (Part #7) at this junction.
4. Run 36” hydraulic hose from the run tee to the fitting Part #6 on the ball valve. **TIGHTEN ALL THE CONNECTIONS SECURELY!**
5. Start the tractor. Actuate the loader to charge the hydraulic system. Add hydraulic fluid as required using the recommended amount for your tractor.



MULTI-FASTER & ACCUMULATOR KIT PARTS SCHEDULE

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	695751	MULTIFSASTER	1
2	679727	ACCUMULATOR BRACKET	1
3	679791	ACCUMULATOR BLOCK	1
4	679726	SOFT RIDE ACCUMULATOR	1
5	680744	1/2" BALL VALVE	1
6	641429	FITTING - HYD 45 ELB 8MJX-8ORM	1
7	681471	FITTING - HYD TEE 8MJX-8FJX-8MJX	1
8	679796	FITTING - HYD 8ORM-8ORM	2
9	674672	#8 HYD ELB	1
10	678346	HOSE - HYD .5-36 8FJX-8FJX90	1
11	690670	HOSE - HYD .5-60 8FFFS-8MJX	6
12	640956	SCREW-.250-20 X 3.00 GR 5 HHC	2
13	640149	WASHER-1/4" SPRING LOCK	2
14	654453	NUT- .250-20 GR 2 LOCK NYLON INSERT	2
15	640059	SCREW-.50-13 X 1.50 GR 5 HHC	2
16	640157	WASHER- 1/2" SPRING LOCK	2
17	660638	NUT- .500-13 GR 2 LOCK NYLON INSERT	2
18	669686	36" HOSE WRAP	1

CYLINDERS

IMPORTANT: Read these service tips before beginning assembly of cylinder gland or piston.

1. Keep seals clean from the time they are removed from package until they are installed.
2. Clean the groove or bore into which the seal is to be fitted before installing the seal.
3. Never touch the seal lip in handling. Always pick up the seal by its outer member.
4. Inspect each seal lip carefully for nicks, scratches, and dirt at time of installation. If dirty use a soft, clean cloth and carefully wipe off seal. **DO NOT wipe seal with fingers, this only imbeds dirt in the seal.**



NEVER clean rubber related seals with a mineral based solvent! Clean rubber seals in denatured alcohol or non-mineral based solvents only.

NOTE: Seals can be made more pliable and easier to install, if first heated in hydraulic oil to 160°F. Never use direct heat on any seals.

HYDRAULIC SYSTEM

The hoses from the tractor valves are attached to the oil lines which are on the inside of the loader main frame.

Re-check all joints to prevent leakage after loader is mounted and in operation.

KEEP SYSTEM CLEAN - USE ONLY CLEAN OIL



CAUTION! It is of utmost importance that the hydraulic system of this loader be kept free from dirt and foreign matter.

All internal parts to the hydraulic system of your loader have been carefully cleaned, inspected, and plugged with protective caps before shipment. All protective caps should be kept in place until the hydraulic system is connected.

NOTE: Over 75 percent of all hydraulic failure and service is caused by dirt, etc. in the system.

REMEMBER - CLEAN OIL MEANS LONGER LIFE!

2 3/4" CYLINDER SERVICE KITS WITH 1 3/4" SHAFT

KIT NO. 675682:

Complete kit with all seals needed to service one (1) 2 3/4" Cylinder. Consists of:

1 each	2 3/4" Gland "O" Ring
1 each	2 3/4" Backup Ring
1 each	1 3/4" U-cup Seal
1 each	1 3/4" Rod Wiper
2 each	2 3/4" U-cup Seal
1 each	1" Rod "O" Ring
1 each	1" Locknut

KIT NO. 675683:

Complete assembled 2 3/4" Cylinder Gland with all seals. Consists of:

1 each	2 3/4" Aluminum Gland
1 each	2 3/4" Gland "O" Ring
1 each	2 3/4" Backup Ring
1 each	1 3/4" U-cup Seal
1 each	1 3/4" Rod Wiper
1 each	1" Locknut

KIT NO. 672930:

Complete assembled 2 3/4" Cylinder Piston with all seals. Consists of:

1 each	2 3/4" Aluminum Piston
2 each	2 3/4" U-cup Seal
1 each	1" Rod "O" Ring
1 each	1" Locknut

KIT NO. 675284:

All seals needed to service one (1) 2 3/4" Cylinder Gland. Consists of:

1 each	2 3/4" Gland "O" Ring
1 each	2 3/4" Backup Ring
1 each	1 3/4" U-cup Seal
1 each	1 3/4" Rod Wiper
1 each	1" Locknut

KIT NO. 672932:

All seals needed to service one (1) 2 3/4" Cylinder Piston. Consists of:

2 each	2 3/4" U-cup Seal
1 each	1" Rod "O" Ring
1 each	1" Locknut

3" CYLINDER SERVICE KITS WITH 1 3/4" SHAFT

KIT NO. 662050:

Complete kit with all seals needed to service one (1) 3" Cylinder. Consists of:

1 each	3" Gland "O" Ring
1 each	3" Backup Ring
1 each	1 3/4" U-cup Seal
1 each	1 3/4" Rod Wiper
2 each	3" U-cup Seal
1 each	1" Rod "O" Ring
1 each	1" Locknut

KIT NO. 663322:

Complete assembled 3" Cylinder Gland with all seals. Consists of:

1 each	3" Aluminum Gland
1 each	3" Gland "O" Ring
1 each	3" Backup Ring
1 each	1 3/4" U-cup Seal
1 each	1 3/4" Rod Wiper
1 each	1" Locknut

KIT NO. 663323:

Complete assembled 3" Cylinder Piston with all seals. Consists of:

1 each	3" Aluminum Piston
2 each	3" U-cup Seal
1 each	1" Rod "O" Ring
1 each	1" Locknut

KIT NO. 662054:

All seals needed to service one (1) 3" Cylinder Gland. Consists of:

1 each	3" Gland "O" Ring
1 each	3" Backup Ring
1 each	1 3/4" U-cup Seal
1 each	1 3/4" Rod Wiper
1 each	1" Locknut

KIT NO. 662057:

All seals needed to service one (1) 3" Cylinder Piston. Consists of:

2 each	3" U-cup Seal
1 each	1" Rod "O" Ring
1 each	1" Locknut

HYDRAULIC CYLINDER PARTS LIST

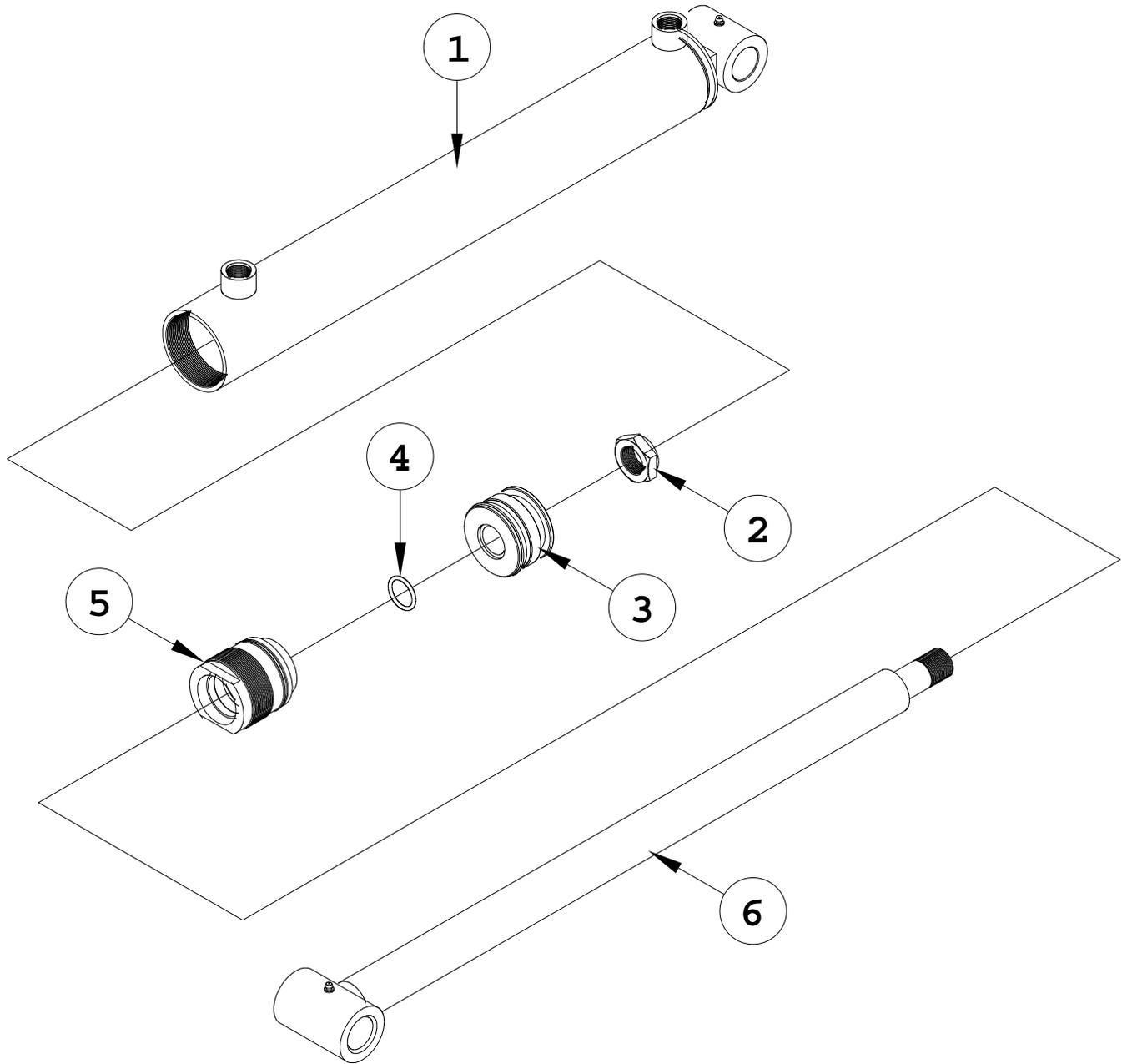
LIFT CYLINDER (Part No. 696302)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	696340	TUBE WELDMENT	1
2	661017	NUT - 1.00-14 GR C LOCK THIN	1
3	651537	PISTON ASSEMBLY	1
4	640301	1" O-RING	1
5	651538	GLAND ASSEMBLY	1
6	696343	ROD WELDMENT	1

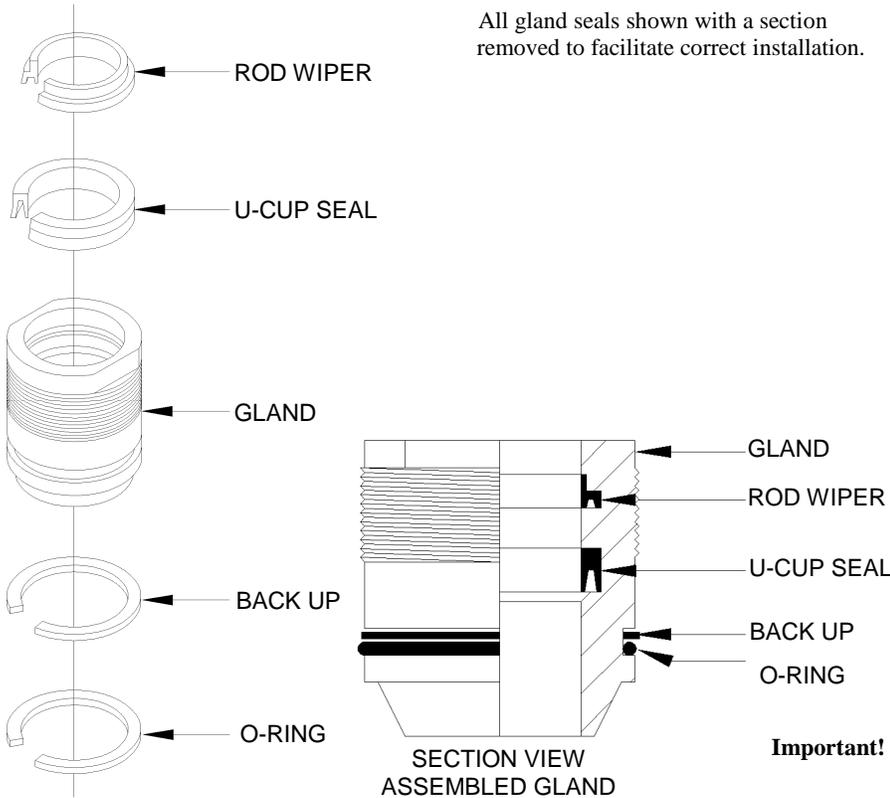
ATTACHMENT CYLINDER (Part No. 696303)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	696350	TUBE WELDMENT	1
2	661017	NUT - 1.00-14 GR C LOCK THIN	1
3	672904	PISTON ASSEMBLY	1
4	640301	1" O-RING	1
5	674735	GLAND ASSEMBLY	1
6	696353	ROD WELDMENT	1

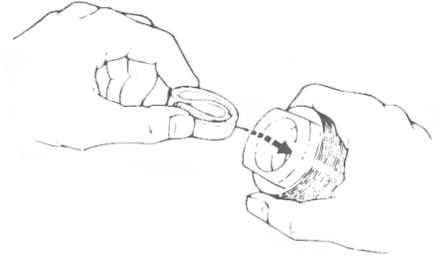
HYDRAULIC CYLINDER PARTS DIAGRAM



CYLINDER GLAND SERVICE DIAGRAM



Note: To install rod wiper and U-cup seal, fold similar to shape shown below, slip into gland bore and locate each in its respective groove. Tools are used to fold seals, take care not to damage sealing surfaces.

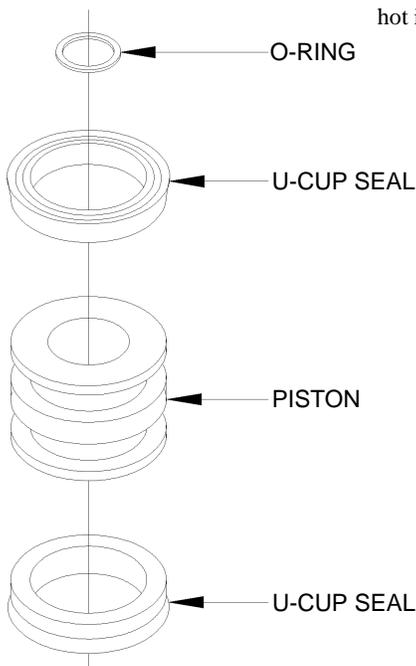


Important! Be sure all gland and piston seals have been installed correctly before cylinder is assembled!

CYLINDER PISTON SERVICE DIAGRAM

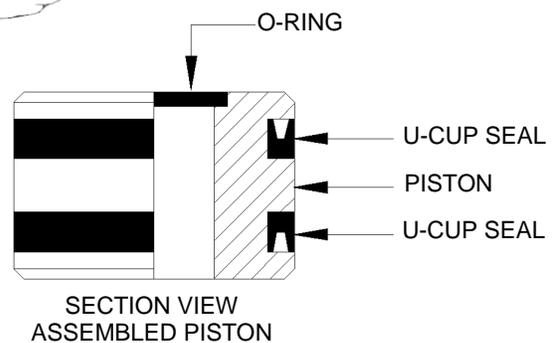
To Remove Seals:

Carefully cut across each seal with a sharp knife. Be sure not to scratch sealing surfaces of aluminum piston. If a sharp knife is not available. An electric soldering gun or hot iron may be used to melt throughout seals.



To Install Seals:

1. Thoroughly clean piston sealing surface of all foreign matter.
2. Heat new seals in hydraulic oil to 160° F. Never use a direct flame or heated water on hydraulic seals.
3. Remove seals from oil, wipe dry and install in piston grooves as shown in illustration at left. Be sure seals have completely seated in piston grooves before allowed to cool.
4. Replace piston on cylinder shaft and assemble cylinder when seals have cooled to room temperature.





NEW LEGEND LOADER WARRANTY

LIMITED WARRANTY FOR NEW LEGEND EQUIPMENT COMPANY PRODUCTS

A. GENERAL PROVISIONS. "Legend" means Legend Equipment Company, 200 N. Cleveland, P.O. Box 409, Lennox, South Dakota 57039. The warranties described below are provided by Legend to the original purchasers of new products purchased from Legend or from an authorized Legend Dealer (the "Products"). Under these warranties, Legend will, at its option, repair or replace at its factory any Product covered under these warranties which is found to be defective in material and workmanship during the applicable warranty term or refund the purchase price paid for the defective Product. Customer will be responsible for labor charges for removing the defective Product and re-installing the repaired or replacement Product, any premium charge for overtime labor requested of Legend and shipping charges to and from Legend's factory. These warranties are not transferrable.

B. WARRANTY PERIOD. Subject to exclusions and limitations set forth herein, each new Product is warranted for the number of years specified below. Each warranty term begins from the date of purchase regardless of delay in receipt of the Product by Customer due to the time required to process, handle, ship, assemble, construct and install the Product. Customer must retain proof of the date of purchase. Replacement parts for and repairs to the Product will be warranted only for the remainder of the original warranty term. The replacement parts for or repairs to the Product will not extend the warranty term beyond the original warranty term. Products include all parts, components and accessories.

PRODUCTS

Legend Loaders	Consumer Use	2 years
	Commercial or Government Use	1 year

C. ITEMS COVERED SEPARATELY. The Legend warranties do not cover any parts, components or materials that are part of the Product, or used in conjunction with the Product, that are not manufactured by Legend. Such parts, components and materials will be subject to the warranties provided by the manufacturer, if any.

D. WHAT IS NOT WARRANTED. Legend does not warrant and is not responsible for the following: (1) used Products; (2) modification or alteration of the Products; (3) Products that have not been properly installed or not installed in accordance with the instruction manual, improper assembly, or improper construction by any persons other than Legend employees; (4) depreciation, damage or loss caused by the use of parts, components or accessories not provided by Legend, unauthorized repairs, normal wear, lack of necessary and proper maintenance, a failure to follow operating instructions/recommendations, misuse, lack of proper protection during storage, vandalism or theft, exposure to the elements or corrosive materials, accidents or acts of nature including lightning, flooding, hail, straight winds and tornadoes; and (5) cosmetic damage or damage that does not hinder the functionality of the Products.

E. LIMITATIONS OF WARRANTIES AND CUSTOMER'S REMEDIES. To the extent permitted by law, neither Legend, the Dealer nor any person or company affiliated with either of them makes any warranties, representations, conditions or promises express or implied as to the quality, performance or freedom from defects of the Products covered by these warranties other than those set forth herein. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NEITHER LEGEND, THE DEALER, NOR ANY PERSON OR COMPANY AFFILIATED WITH EITHER OF THEM WILL BE LIABLE FOR ANY DAMAGES, INCLUDING, BUT NOT LIMITED TO, INCIDENTAL, SPECIAL, EXEMPLARY, CONSEQUENTIAL, LOST PROFITS AND REVENUES, LOST USE OF THE PRODUCTS OR ANY OTHER PROPERTY, BODILY INJURY OR PROPERTY DAMAGE CLAIMS OF ANY PERSON, LOST COMMODITIES, REMOVAL OR STORAGE COSTS FOR THE PRODUCTS, OTHER EQUIPMENT AND COMMODITIES, DAMAGE TO THE ENVIRONMENT ARISING FROM OR IN ANY MANNER RELATED TO ANY RELEASE OF HAZARDOUS MATERIALS, AND REMEDIATION EXPENSES THEREFORE, WHETHER BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER LEGAL BASIS, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO INSTANCE WILL LEGEND, THE DEALER OR ANY PERSON OR COMPANY AFFILIATED WITH EITHER OF THEM BE LIABLE TO CUSTOMER OR ANY PERSON IN AN AMOUNT IN EXCESS OF THE PURCHASE PRICE PAID BY CUSTOMER FOR THE PRODUCT.

F. NO DEALER WARRANTY. THE DEALER HAS NO AUTHORITY TO MAKE ANY WARRANTY, REPRESENTATION, CONDITION OR PROMISE ON BEHALF OF LEGEND, OR TO MODIFY THE TERMS OR LIMITATIONS OF THIS WARRANTY IN ANY WAY.

G. GOVERNING LAW/VENUE. These warranties, and all terms set forth herein, are governed by the laws of the State of South Dakota and, where applicable, the laws of the United States of America. Any and all disputes arising from these warranties, the purchase and use of the Products, bodily injury and property damage claims or otherwise must be venued in the South Dakota Circuit Court sitting in Minnehaha County, South Dakota. Customer agrees to such venue and waives any challenge to such court's jurisdiction based upon lack of personal jurisdiction or inconvenience.

H. SECURING WARRANTY SERVICE. In order to receive warranty services, customer must give Legend written notice of a warranty claim within 30 days of the date of discovery of the defective materials or workmanship, and Customer must complete the following steps:

(1)	Obtain from Legend a Return Materials Authorization Number ("RMA Number") by calling the Customer Service Department at (855) 534-3784 or e-mail Legend at info@Legendequip.com , and providing the following information:
	An explanation as to why the Product is being returned.
	The name of the territory representative, Dealer or Legend salesperson from whom the Product was purchased.
	The Dealer's identification number.
	The invoice number and date of purchase.
	Customer's name, phone number, fax number, mailing address and email address.
	The date that the Product will be returned.
(2)	Pay the shipping charges to ship the Product to Legend's factory, and the return shipping charges.
(3)	Ship the Product to Legend at 200 N. Cleveland, Lennox, South Dakota 57039.

TORQUE SPECIFICATIONS

1. Tightening Bolts & Nuts

Check all loader bolts and nuts for tightness every 50 working hours. The movement of the loader over rough terrain may cause bolts to come under pressure and over a long period of time some slight stretching of the bolt may occur. The slack created may need to be taken up by tightening. Please refer below for recommended torque settings.

Metric Recommended Torque Settings

Size	Class 8.8				Class 10.9			
	Lubricated		Dry		Lubricated		Dry	
	N*m	Lb-ft	N*m	Lb-ft	N*m	Lb-ft	N*m	Lb-ft
M6.....	9	6.5	11	8.5	13	9.5	17	12
M8.....	22	16	28	20	32	24	40	30
M10.....	43	32	55	40	63	47	80	60
M12.....	75	55	95	70	110	80	140	105
M14.....	120	88	150	110	175	130	225	165
M16.....	190	140	240	175	275	200	350	225
M18.....	260	195	330	250	375	275	475	350
M20.....	375	275	475	350	530	400	675	500
M22.....	510	375	650	475	725	540	925	675
M24.....	650	475	825	600	925	675	1150	850
M27.....	950	700	1200	875	1350	1000	1700	1250
M30.....	1300	950	1650	1200	1850	1350	2300	1700
M33.....	1750	1300	2200	1650	2500	1850	3150	2350
M36.....	2250	1650	2850	2100	3200	2350	4050	3000

SAE Recommended Torque Settings

Size	Grade 5				Grade 8			
	Lubricated		Dry		Lubricated		Dry	
	N*m	Lb-ft	N*m	Lb-ft	N*m	Lb-ft	N*m	Lb-ft
1/4.....	9.5	7	12	9	13.5	10	17	12.5
5/16.....	20	15	25	18	28	21	35	26
3/8.....	35	26	44	33	50	36	63	46
7/16.....	55	41	70	52	80	58	100	75
1/2.....	85	63	110	80	120	90	150	115
9/16.....	125	90	155	115	175	130	225	160
5/8.....	170	125	215	160	215	160	300	225
3/4.....	300	225	375	280	425	310	550	400
7/8.....	490	360	625	450	700	500	875	650
1.....	725	540	925	675	1050	750	1300	975
1-1/8.....	900	675	1150	1200	2050	1500	2600	1950
1-3/8.....	1700	1250	2150	1550	2700	2000	3400	2550
1-1/2.....	2250	1650	2850	2100	3600	2650	4550	3350



DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only and include a +/- 10% variance. Check tightness of fasteners periodically. DO NOT use air powered wrenches. Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.