SERIES 2100 CONTRACTOR LIFT

Original Instructions



SUMNER MATERIAL LIFTS
AN SGE GROUP BRAND

INSTRUCTION MANUAL

www.SUMNER.com

INTRODUCING THE S.F.E. GROUP

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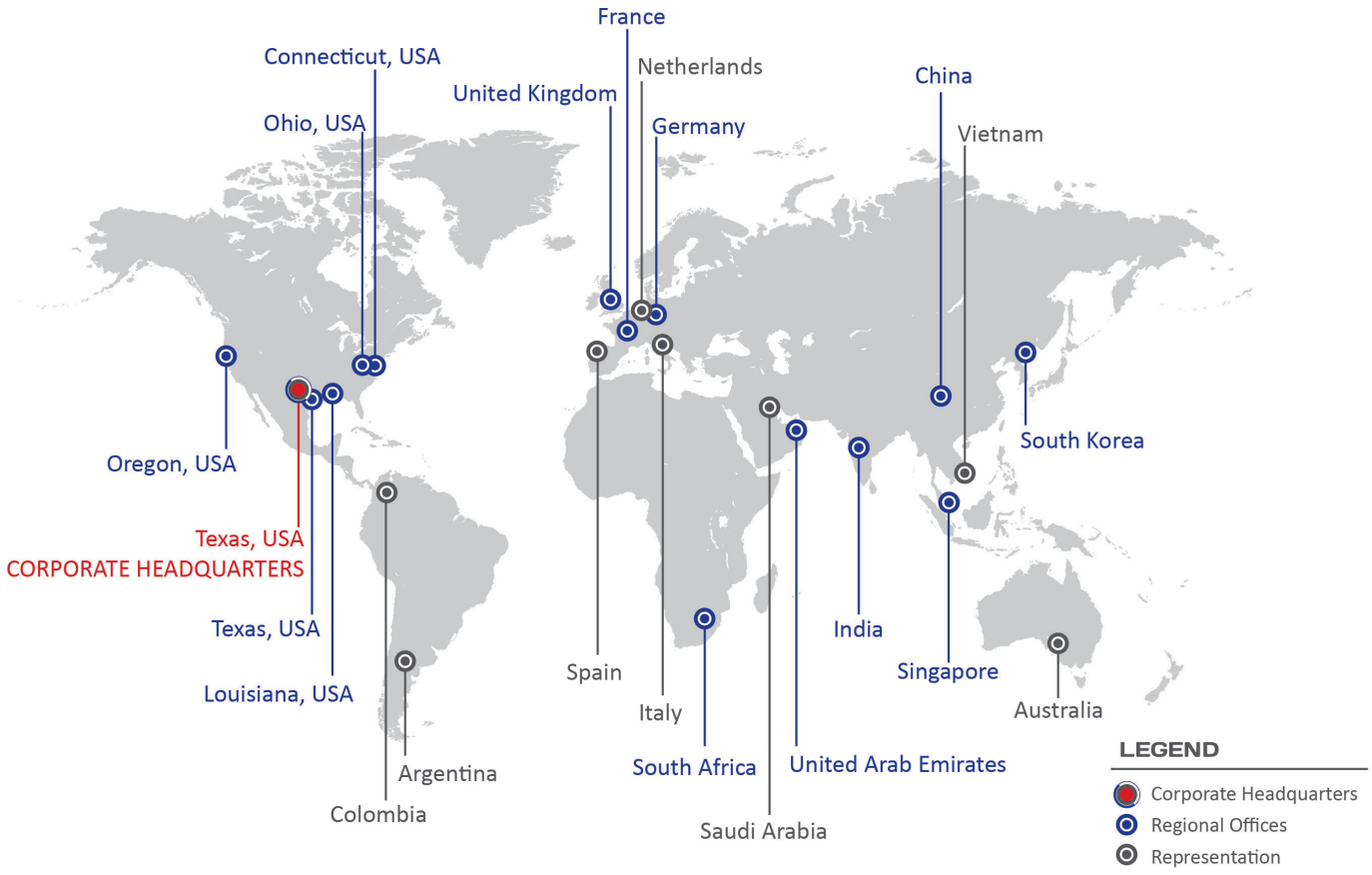
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INTRODUCING SUMNER MATERIAL LIFTS

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With a long tradition of quality, reliability and value and a strong commitment to innovation and customer satisfaction, ***SUMNER Material Lifts*** *continues to set the standard in lifting and material handling solutions.*

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SUMNER Material Lifts *products are always nearby available within the* ***S.F.E. Group*** *global network and can be consulted on the dedicated website:* ***www.SUMNER.com***

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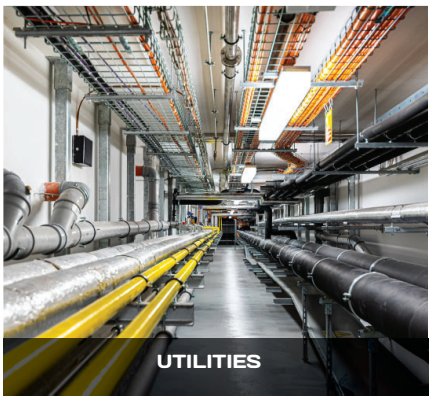












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The S.F.E. Group (hereafter referred to as “S.F.E.”) warrants that all new machines are free from defects in materials and workmanship. This warranty is available to the original purchaser for a period of one year after delivery. If the original purchaser finds any defect in materials or workmanship within the warranty period, the original purchaser should contact its factory representative and return the entire machine, shipping prepaid, to the factory. S.F.E. will, at its option, either repair or replace the defective machine at no charge and will return the machine with shipping prepaid.

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- Damage after the date of shipment not caused by defects in materials or workmanship
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All other warranties, express or implied, including without limitation the warranties of merchantability and fitness for a particular purpose are disclaimed and excluded.

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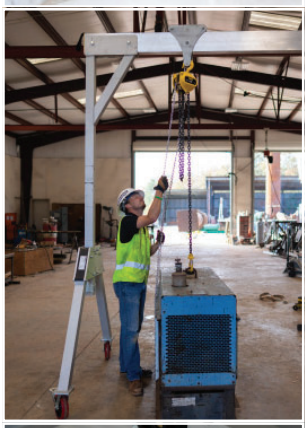
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About this manual

S.F.E. provides the contents of this manual in good faith as a guideline to the operator. S.F.E. cannot guarantee that the information contained in this manual is correct for applications other than the application described in this manual. Product specifications are subject to change without notice.







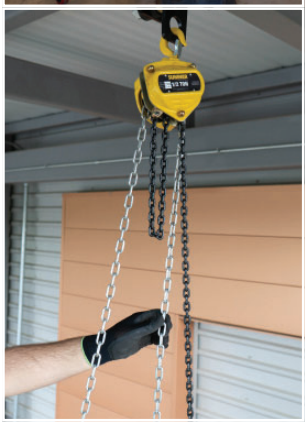




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1. INTRODUCTION

1.1 HOW TO USE THIS MANUAL

This manual describes information necessary for the setup, operation, maintenance, storage, shipping, and decommissioning of B&B Sumner Series 2100 lifts. Read this entire manual to familiarize yourself with the lift before attempting to set it up or operate it.

The appendices contain supplemental product information to aid in setup, operation, and maintenance tasks.

1.2 SAFETY ALERTS

Pay careful attention to the safety alerts printed throughout this manual. Safety alerts will call your attention to specific hazardous situations that may be encountered when operating this lift.

Examples of safety alerts used in this manual are defined below[1]:



Indicates a hazardous situation which, if not avoided, **WILL** result in death or severe injury.



Indicates a hazardous situation which, if not avoided, **COULD** result in death or severe injury.



Indicates a hazardous situation which, if not avoided, **COULD** result in minor or moderate injury.



Indicates a hazardous situation which, if not avoided, **COULD** result in property damage, equipment failure, or undesired work results.

1.3 GENERAL SAFETY PRECAUTIONS

Sumner Material Lifts leads the way in promoting the safe use of lifting equipment. Safety is a joint effort. You, the end user, must do your part by being aware of your work environment and closely following the operating procedures and safety precautions contained in this manual, as well as your employer's safety guidelines.

Observe the following safety precautions when operating or working around the lift.

Training – Before operating this or any lift, you should receive instruction from a qualified trainer. Contact Sumner Material Lifts for machine-specific training information.

Risk assessment – Working with and around this lift poses risks to your safety. You, the end user, are responsible for conducting a risk assessment of each job site before setting up and operating this machine.

Intended use – Perform only the functions for which the unit is designed. Never attempt to operate the equipment at more than the recommended capacity.

Personal protective equipment – Always wear appropriate personal protective gear when operating this or any other lift. A hard hat, safety shoes, and gloves should be worn as a precaution while operating this lift.

1. For more information on safety alerts, refer to ANSI/NEMA Z535.6-2011, Product Safety Information in Product Manuals, Instructions, and Other Collateral Materials.

Work area – Keep the work area clean. Always keep the work area clear of clutter for unobstructed movement of the unit. Never leave an elevated load unattended.

Safety clearance – Avoid horseplay, and keep bystanders at a safe distance. Do not allow children to operate this unit, and always keep them out of work areas.

1.4 MACHINE-SPECIFIC SAFETY PRECAUTIONS

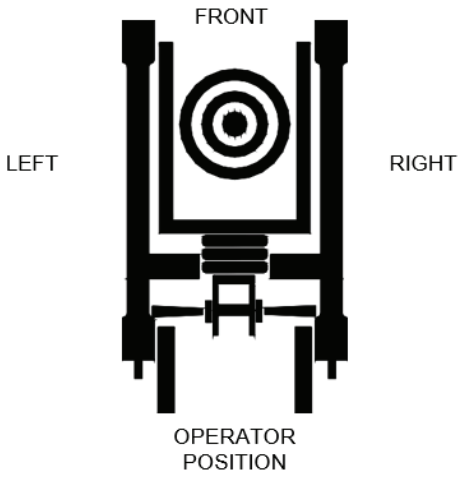
Work area hazards – Observe the following work area hazards when operating Sumner lifts:

- **High winds:** Never operate during high wind conditions. Lifting bulky loads during high winds can result in the lift tipping over and the possibility of operator injury.
- **Level surfaces:** Operate the unit only on smooth and level surfaces to avoid unit tipping over and the possibility of operator injury.
- **Overhead obstructions:** Always watch for and avoid overhead wires and obstructions when using the unit or moving unit to and from the job site.
- **Misuse:** Do not use the unit to support ladders, for climbing, hoisting, or transporting people.
- **Weather:** Do not use unit outside in thunder, lightning, or severe weather.
- **Elevated load:** When a unit has an elevated load, it can be transported on the unit's 5" casters only. Do not operate from an unstable platform such as the bed of a truck.

Labels – Each unit should have a complete set of decals and a legible operator's manual. Contact Sumner Material Lift if any of these items are missing.

Replacement parts – Use only factory replacement parts. Anything else will severely compromise the quality and safety designed into this lift.

Operating position – Operate the lift from the proper position. Keep your balance and proper footing at all times.



Secure load – Secure load to prevent it from shifting on forks, and tie down loads before lifting.

Lock caster brakes – Lock caster brakes when leaving unit unattended.

Load position – Keep load at lowest possible position at all times.

⚠ WARNING

The center of gravity of the load should always be centered between the fork arms and as far back towards the lift as possible.

⚠ WARNING

The center of gravity of the load should never extend past 22" on standard forks and 36" on extended forks.

1.5 RISK ASSESSMENT CHECKLIST

The following checklist is not intended to be an all inclusive list of things to watch out for when setting up and operating this portable machine tool. However, these checklists are typical of the types of risks the assembler and operator should consider. Use these checklists as part of your risk assessment.

Risk Assessment Checklist Before Set-up

☐	I took note of all the warning labels on the lift.
☐	I removed or mitigated all identified risks (such as tripping, cutting, crushing, entanglement, shearing, or falling objects).
☐	I considered the need for personnel safety guarding and installed any necessary guards.
☐	I read the lift assembly instructions.
☐	I located the potential fall paths in lifting and rigging operations. I have taken precautions to keep workers away from the identified fall paths.
☐	I evaluated and mitigated any other potential risks specific to my work area.

Risk Assessment Checklist After Set-up

☐	I followed the required maintenance checklist with the recommended lubricants.
☐	I checked that all affected personnel have the recommended personal protective equipment, as well as any site-required or regulatory equipment.
☐	I located the potential fall paths in lifting and rigging operations. I have taken precautions to keep workers away from the identified fall paths.
☐	I checked that all affected personnel understand and are clear of the danger zone.
☐	I evaluated and mitigated any other potential risks specific to my work area.

2. OVERVIEW

The diagram below shows the principal components of Sumner Series 2100 lifts. The image is representative; your unit may differ.

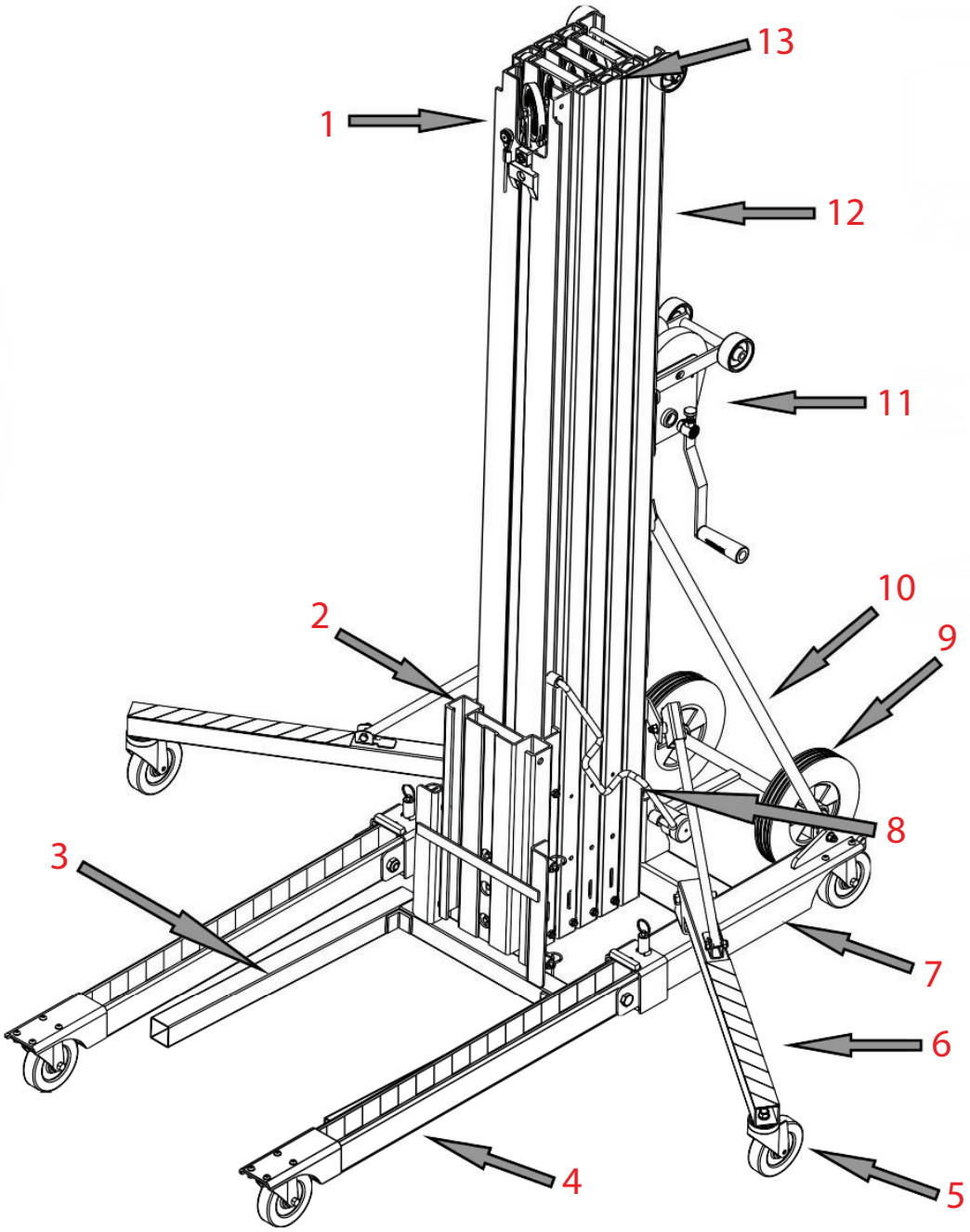


Table 2-1 Principal components

NUMBER	COMPONENT
1	Top mast
2	Carriage assembly
3	Lifting fork
4	Base legs
5	Stabilizer leg caster
6	Stabilizer leg
7	Base assembly with 5” casters
8	Mast hold down
9	10” transport wheels
10	Mast brace
11	Winch assembly
12	Bottom mast
13	Center mast

2.1 SPECIFICATIONS

The tables below provide general specifications for Sumner Series 2100 lifts.

Table 2-2 Lift specifications - 2100 series

	2112	2118	2124
Maximum height (forks down)	3.9m (12’ 11 3/8”)	5.6m (18’ 4 3/8”)	7.2m (23’ 9 3/8”)
Maximum height (forks reversed)	3.5m (11’ 7 1/8”)	4.9m (16’ 2 1/2”)	6.3m (20’ 9 1/4”)
Footprint	0.8 x 1.88m (32” x 74”)		
Lifting height	3.66 m (12’)	5.49 m (18’)	7.32 m (24’)
Load capacity	295 kg (650 lb)		
Shipping weight	130.5 kg (288 lb)	161.8 kg (356 lb)	181.4 kg (399 lb)
Width with stabilizer legs	1.86m (6’ 2”)		
Operating height	1.57 m (62”)		
Ground clearance	64mm (2 1/2”)		
Min. load height	152 mm (6”)		

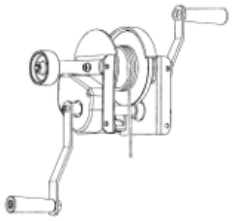
Table 2-3 Load capacity chart

MODEL	LOAD CENTER		
	14	24	42
2112	300 kg (650 lb)	215 kg (475 lb)	82 kg (180 lb)
2118	300 kg (650 lb)	215 kg (475 lb)	82 kg (180 lb)
2124	300 kg (650 lb)	215 kg (475 lb)	82 kg (180 lb)

3. SETUP

3.1 INSPECTION

Prior to each use of the unit, check all moving parts and wire rope to ensure that they are in proper operating condition.



If the unit has visible damage or does not transfer up and down smoothly during pre-operation, **do not use the unit.**

Wire rope (cable) must have a minimum of four complete wraps around the winch drum.

If cable is kinked, worn, frayed, damaged, or has anything on it that would obstruct its rotation around the pulley wheels, **do not use the unit.**

3.2 UNPACKING THE LIFT

Remove the lift from the shipping pallet by cutting the bands and rocking the lift back on the 10” transport wheels. Carefully roll the lift back off of the pallet onto a smooth, level surface. Place the lift back into its upright stored position.



Figure 3-1 Mast Hold Down Bar engaged

The lift has been shipped with the Mast Hold Down Bar engaged. The purpose of the Mast Hold Down is to keep the mast sections from extending during transportation. To use your lift, pull bar toward you and place back behind mast sections.

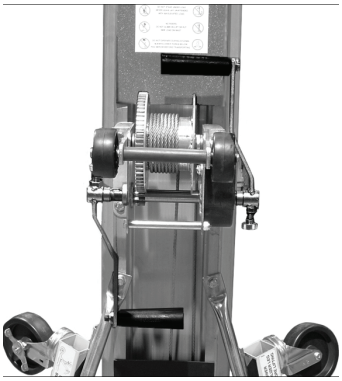
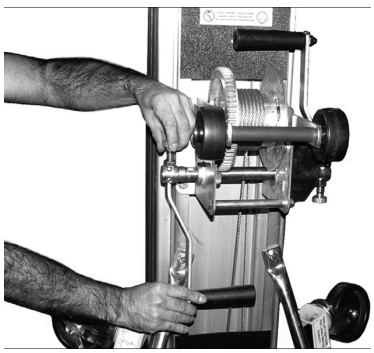


Figure 3-2 Winch handles in stored position

The winch handles have been placed in the stored position.

To place the winch handles in the operating position, pull up on the locking pin and slide the handle off of the winch shaft. Rotate the handle assembly around so that the black plastic grip is facing away from the winch. While pulling up on the locking pin, slide the handle back on to the winch shaft. Repeat this procedure for the other handle.



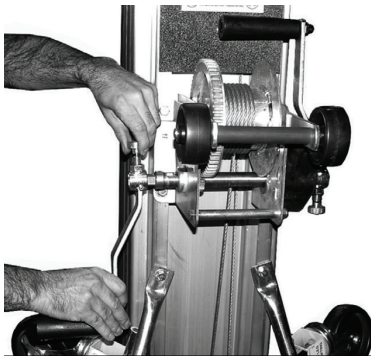


Figure 3-3 Placing winch handles in operating position



Figure 3-4 Winch handles in operating position

NOTICE

When properly installed, the winch handles should be mounted 180 degrees apart, as shown in Figure 3-4. Do not attempt to raise or lower a load with the handles mounted in any other manner.

3.3 MOVING LIFT TO WORK AREA (NO LOAD)

The lift is normally moved to the job site by rolling on its 10” tires or four caster wheels.

NOTICE

Do not pull the lift by the load lifting cable.



Before tilting unit to reclined position, the carriage must be lowered all the way down and the Carriage Safety Latch must be engaged.

To tilt the unit into position for transport; from a squatting position, grasp the legs just past the casters and while keeping your back straight, lift upwards to a standing position. The unit is now ready to transport on its 10” wheels.

If it is necessary to go under a low doorway or obstruction, the unit may be reclined onto the 3” wheels located on top of the mast sections and on the winch.

⚠ CAUTION

Never allow anyone to stand directly behind the mast while the unit is tilted.

3.4 MOVING LIFT IN WORK AREA (WITH LOAD)

Although it is best to move the unit to the job site unloaded, light loads may be transported as long as the unit is rolled on the four caster wheels and on a level surface. Always have the load in the lowest possible position before moving the unit.

⚠ CAUTION

If a load is being transported, it should be secured to the fork to avoid shifting.

⚠ CAUTION

Moving the unit with elevated loads should be contained to short distances; i.e., 10-15 feet/4-5 meters.

If it is necessary to move the unit with an elevated load:

- Make sure the area is clear of obstructions
- Keep personnel away from the load and behind the operator’s position
- Move the unit slowly, avoiding sudden jerky starts and stops
- Make sure the load is secure and properly balanced. Note load capacity at given centers in Table 2-3

⚠ WARNING

Do not extend load centers beyond fork ends by modifying the lift. Lift may become unstable.

4. OPERATION

4.1 REVERSING THE FORKS

To reverse the forks, disengage the 4 spring-loaded pins. Rotate the fork assembly 180 degrees and engage the 4 spring-loaded pins.



Figure 4-2 Fork assembly rotated, pins engaged

Reverse these steps to return the forks to their normal position.



Figure 4-1 Disengaging spring-loaded pins

⚠ CAUTION

When using the forks in the reversed position, ensure that the load is secured and does not extend beyond the fork stop.

4.2 LIFTING AND LOWERING LOADS

Use the winch to crank forks up or down into the desired position. Then crank winch handles up about 1/4 turn to set the safety brake.

Any unstable load must be *balanced* and *secured* to the forks prior to lifting.

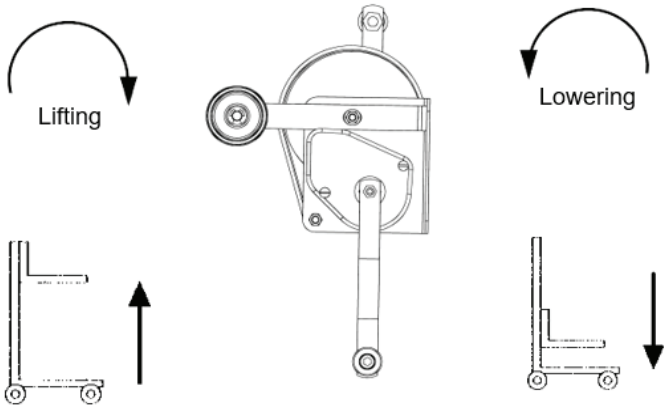
Turn the winch crank clockwise as viewed from the right to elevate the load, while watching for overhead obstructions.



⚠ CAUTION

Make sure the floor surface is level.

After the load is removed from the forks, lower masts by turning the winch crank counter-clockwise. Lock caster brakes when leaving unit unattended.



⚠ WARNING

No riders are allowed on this lift. This is not a personnel lift and should never be used for hoisting or moving people.

4.3 USING THE STABILIZER LEGS



Use of the stabilizer legs is recommended for all lifts with loads weighing 400 pounds or more extended to heights greater than 15 feet, or for any large, bulky loads. Stabilizer legs are not standard on all models.

⚠ WARNING

Never allow anyone to stand under an elevated load.

⚠ WARNING

Never operate lift during high wind conditions.



Position the lift on a level surface. Pinch the stabilizer locking mechanism and pull the stabilizer legs down until the caster on each leg is snugly on the floor.

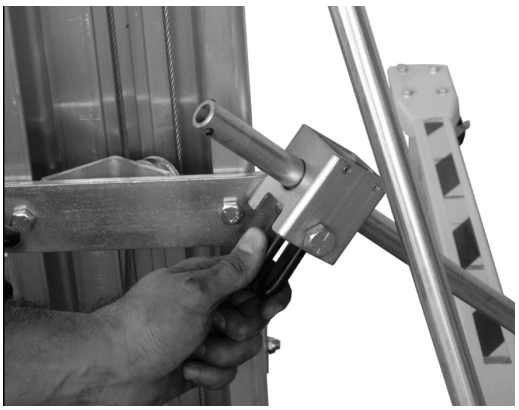
To replace the leg in the stowed position, pinch the locking mechanism release and fold the leg up.

⚠ WARNING

Keep hands away from all moving parts while operating this unit.

⚠ WARNING

Do not exceed rated capacity.



4.3.1 UNFOLDING THE BASE LEGS

To unfold the base legs, while holding one of the legs, pull up on the plunger pin and slide the leg lock back as far as it will travel.

Lower the leg so that it is level with the ground. Slide the leg lock forward until the plunger locks into position. Repeat for the other leg.



Figure 4-3 Unfolding the base legs

⚠ CAUTION

Never move a lift in the upright storage position or in the operating position unless the spring loaded plunger pins are fully engaged on both Leg Locks.



Figure 4-4 Not engaged

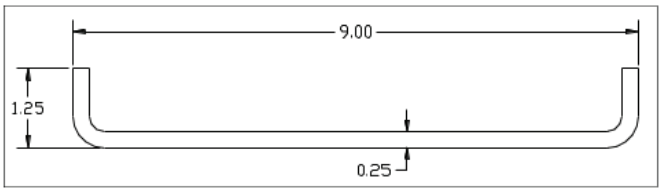


Figure 4-5 Fully engaged

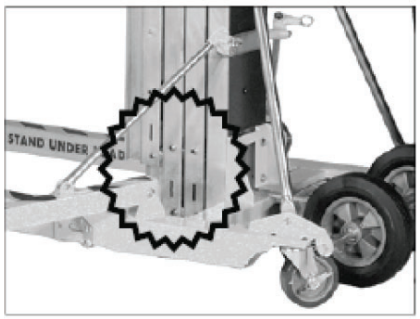
4.4 OPTIONAL EQUIPMENT

4.4.1 SAFETY BRAKES

The Safety Brake will automatically engage when the unit is horizontal, preventing disassembly of the mast sections. When this occurs, the masts will extend, but not retract. A special tool, which can be found in the Operator's Manual tube, is required to release the brakes. If the tool is lost or damaged, one can be made simply from a piece of 1/8 to 1/4 inch diameter steel rod 9 inches long with both ends bent into an "L" shape 1-1/4 inches long.



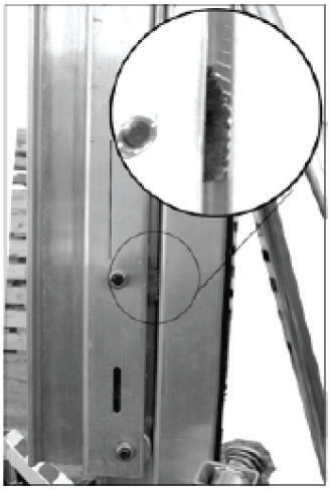
To release the brake, lay the lift back onto the winch wheels and place the tool into brake access slot located on the left side of the lift as viewed from the operator position, and through the hole in the counterweight.



Pull the tool down and the brake will release.

It may be necessary to push the locked mast (or carriage) up slightly while pulling down on the tool. Once the brake is released, maintain pressure on the tool and slide the mast sections apart.

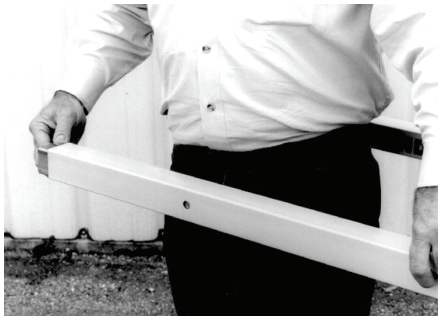
Repeat this procedure for each mast section.



When the brake is engaged, it will be possible to see the brake cam acting on the adjacent mast section. Once the brake is released, it will rotate around into its normal position and will not be visible.

4.4.2 FORK EXTENSIONS

To use fork extension, press plunger on each fork arm and slide extensions out of tube until plungers lock into position. Reverse this step to reinsert the extensions.





4.4.3 BOOM

To use the Boom, pull spring-loaded ring and slide hook housing to desired station. Release spring-loaded ring, making sure that the plunger engages into the locating hole (numbered in Figure 4-6).

Table 4-1 Boom capacity chart

STATION	1	2	3	4	5
lb.	650	525	425	300	200
kg.	300	240	195	140	90

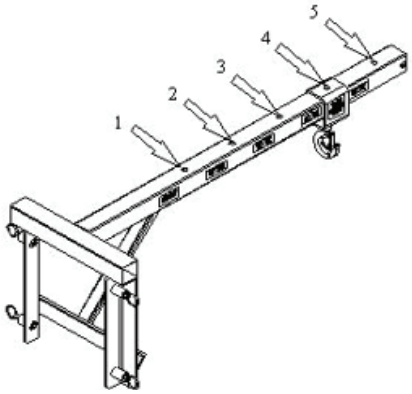


Figure 4-6 Boom locating holes

⚠ WARNING

Do not use the Boom if plunger is not engaged in the locating hole.

⚠ WARNING

Never exceed the rated capacity at any station. Doing so may cause the lift to become unstable.

4.4.4 TWO-SPEED WINCH KIT

The Two-Speed Winch Kit (PART NO. 783761) is a shorter handle allowing the user to wind the standard winch more quickly.

5. MAINTENANCE

The table below lists recommended maintenance intervals for Sumner Series 2100 lifts. Observe these maintenance intervals to ensure proper operation of your lift.

Table 5-1 Maintenance intervals

INTERVAL	TASK
Before each use	Inspect the cable for kinks and frays. If kinked or more than 3 wire strands are broken (small wires) do not use the lift until the cable has been replaced.
	Make certain winch operates freely and cable is not tangled on the winch drum.
	Check forks, legs, and base for bends.
	Make sure caster wheels move freely.
	Check stabilizer legs by lowering them into normal operating position to check locking mechanism and raising them to check for smooth transfer.
Every 6 months	Complete a brake inspection: Manually raise and support each movable mast section and carriage a minimum of 6" above their lowest position. Use a wooden block with a rope attached to the bottom end to quickly pull on rope to remove wooden block support from mast sections being tested. Brakes should engage before mast section reaches bottom stop. Use winch to crank up mast sections to release the safety brakes.

5.1 WINCH MAINTENANCE

Refer to the winch assembly drawings in Appendix A to complete winch maintenance.

1. Ensure that both winch covers are on the winch.
2. Check ratchet dog and brake ratchet for wear. If any wear is visible, replace the part. If not, lubricate the holes in both parts with a light oil.
3. Inspect gear teeth for wear. If there is no sign of visible wear, brush teeth with 50-wt. motor oil.
4. Adjust the brake. For proper brake adjustment see "Troubleshooting" in Section 5.4.

5.1.1 REPLACING THE CABLE

1. Lower the carriage to engage the safety latch.
2. Remove the large gear cover from the winch.
3. Unbolt the cable from the top of the top mast.
4. Cut the looped end off the old cable assembly, using cable cutters or a cutting torch.
5. Fusion weld the plain end of the new cable to the cut end of the cable. Note: The fused joint must be straight and smooth or it will not pass through the pulley assemblies inside the unit.
6. Use the winch to pull the old cable from the winch side while feeding the new cable through the carriage until the old cable is completely out of the unit. Cut the cables apart approximately 2" from the weld on the new cable and fuse the end of the new cable to prevent unraveling.



NOTICE

Trim all loose strands before pulling cable through unit. Make sure that welded area is not too bulky to pass between the rope guards and pulley wheels.

7. Bolt the new cable (looped end) to the top of the top mast.
8. Unwind the cable from the load drum, loosen the set screw and remove the cable.
9. Thread the plain end of the cable through the drum into the rope keeper and tighten the set screw. Note: The cable must be fed from the bottom of the winch between the winch and the mast sections, over the drum and into the slot on the wide plate.
10. Wind the slack cable tightly and evenly across the load drum.
11. Replace the winch covers.

5.2 GENERAL MAINTENANCE

1. Check both winch handles for wear or bends.
2. Inspect 3” roller wheels mounted on the winch and top mast for damage and smooth rotation.
3. Examine all bolts and nuts to be sure they are tight.
4. Legs, forks, braces and base should be dent free and damage free.
5. Check pulley covers for damage (indentations) which can restrict the rotation of the pulleys.
6. Make sure load line is seated in all pulleys and that pulley rotates without obstruction.
7. Check stabilizer legs by lowering them into normal operating position to check locking mechanism and raising them to check for smooth transfer.
8. Check all roller wheels for free rotation.
9. Inspect masts and carriage hold-down device.
10. Raise mast sections to inspect for free, smooth sliding action. Make sure wire slideways are free of dust and oxidation and spray a light coat of silicone lubrication in slideways.
11. Make sure caster wheels and 10” transport wheels rotate freely and are undamaged.
12. Inspect leg latch mechanism and apply light grease to spring loaded plunger.
13. Check to be sure that all three mast covers are attached to the lift.
14. Check the safety brake operation.

⚠ WARNING

Replace all worn or damaged parts only with Sumner parts.

⚠ DANGER

Modifying the lift in any way can cause injury or death.

5.3 CLEANING

To clean the lift, extend the mast sections one by one and power wash the masts with soap and water. Apply silicone-based lubricant to the mast sections.

NOTICE

Only silicone-based lubricants should be used on mast sections.

5.4 TROUBLESHOOTING

The table below lists common problems, their causes, and potential solutions. If problems persist, please contact your distributor's service department.

Table 5-2 Troubleshooting reference

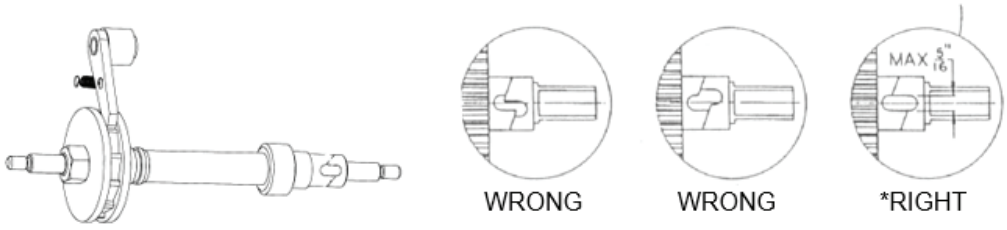
PROBLEM	CAUSE	SOLUTION
Masts not rising in succession	Overloading Check to make sure that the load does not exceed the rated load limit	Remove excess weight
	Load may not be centered properly on the forks	Check load capacity chart and reposition load
	Mast roller not rotating. Inspect tracks for debris, grease, or any foreign obstruction	Clean mast sections with a degreaser or brake cleaner and lubricate with a silicon lubricant
	Cable pulley wheel not rotating	If there is any damage to the pulley wheel, or if the wheel doesn't rotate smoothly, replace wheel. If the rope guard shows any damage, replace it
	Inspect cable for damage	If cable is kinked, worn or frayed, replace cable
	Mast roller tracks are clean and mast roller wheels are not rotating	If wheels and mounting hardware are not damaged, clean wheels and lubricate shoulder bolt. If the wheels do not rotate freely, replace roller wheel assembly
	Inspect mast sections for damage	Replace damaged mast section
	Mast sections will not release or transfer down	Check the safety brake. The brake will not release unless the unit is vertical.
Load is easing down slowly	The brake on the winch or ratchet dog is not installed correctly	When load is in position, crank winch handles forward a half turn towards the lift to set the brake.
You have serviced the winch and now the brake does not work at all	The brake ratchet or ratchet dog are not installed correctly	Check the winch drawing in this manual and correct the installation problem
The winch is hard to crank down	The brake is over-engaged	See Illustration and instructions below
	The brake will not disengage	See Illustration and instructions below
	The idler gear is displaced	Make sure that the idler rotates freely and the teeth on the idler gear are not worn
Safety brake will not release	Unit may not be in the vertical position	Place unit in vertical position and wind mast sections up to full extension
Unit is vertical and brakes will not release	Mast section or carriage is too close to mast stop and does not have enough clearance between mast stops for brakes to release	Use release hook to manually disengage safety brakes
Unit is being serviced or unit is not in vertical position	Brakes will engage if unit is horizontal or tilted off center	Use release hook to disengage brakes

NOTICE

Mast sections may rise out of succession when load is near maximum capacity. If this occurs, the masts will correct themselves during continued use or when the load is removed from the forks. Movement of the mast sections will not affect the position of the forks. The carriage must elevate to the top of the top mast section before any mast sections begin to rise, and it should lower last.

NOTICE

For proper adjustments on the winch, the pinion and drive shaft must be in the positions shown when the lock nut is tightened against the O.D. brake disc to 15 ft. lbs. Correct alignment is only visible when load is applied to the lift. See diagram below:



6. STORAGE AND TRANSPORTATION

6.1 FOLDING THE BASE LEGS

Before storing or transporting the unit, fold up the base legs. To do so, proceed as follows:

1. Lower the carriage all the way down and engage the Mast Hold Down Bar.

⚠ CAUTION

Do not drop the unit. Lower the unit by bending your legs, not your back.

2. Tilt the unit over onto the winch wheels.
3. Pull out ring to disengage the spring loaded plunger pin.
4. While holding onto the leg, slide the Leg Lock down towards the outrigger mount.



Figure 6-1 Slide leg lock down



Figure 6-2 Fold leg to 90 degree angle

5. Fold the leg until it forms a 90-degree angle with the base.

6. While holding the leg in the 90-degree position, slide the Leg Lock back towards the leg until the spring-loaded plunger pin engages into position.



Figure 6-3 Slide leg lock back

⚠ CAUTION

Never move a lift in the upright storage position or in the operating position unless the spring loaded plunger pins are fully engaged on both Leg Locks.

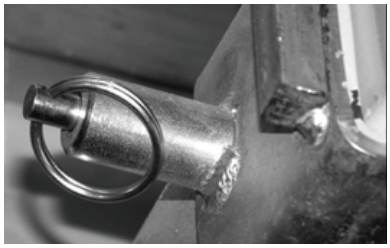


Figure 6-4 Not engaged



Figure 6-5 Fully engaged

6.2 STORING THE FORKS



Figure 6-6 Lift in storage position

To store the forks, proceed as follows:

1. Using two hands, pull the lower 2 spring-loaded rings located above the fork arms and simultaneously rotate the fork outward.
2. Using two hands, pull the upper 2 spring-loaded rings located at the top of the fork assembly and remove the forks from the carriage.
3. While pulling out on the upper 2 spring-loaded rings, reposition the upper 2 spring loaded pins so that they align with the top two holes in the carriage and release the rings.
4. Once the pins are locked in the holes, the carriage can be rotated up into the travel/storage position.

The lift may be stored in the upright, compact position.

⚠ CAUTION

Once the forks are rotated up they must be secured to prevent them from falling back.

⚠ CAUTION

Carriage must be secured with Mast Hold Down. See Mast Hold Down Bar section below.

6.3 MAST HOLD DOWN BAR

Securing the carriage:

Lower the carriage all the way down. With the forks in place, engage the Mast Hold Down Bar above the fork carriage.

To release the Hold Down Bar, pull it towards you and place it back behind the mast sections.



Figure 6-7 Mast Hold Down Bar engaged



Figure 6-8 Mast Hold Down Bar released

6.4 LOADING INTO VANS/TRUCKS

Fold the base legs and fork assembly (see instructions above). Tilt the unit back onto the winch side and slide the masts in first. Lift the base end and roll the lift on the 3” wheel and 10” transport wheels. Tie the unit down to prevent movement during transport.



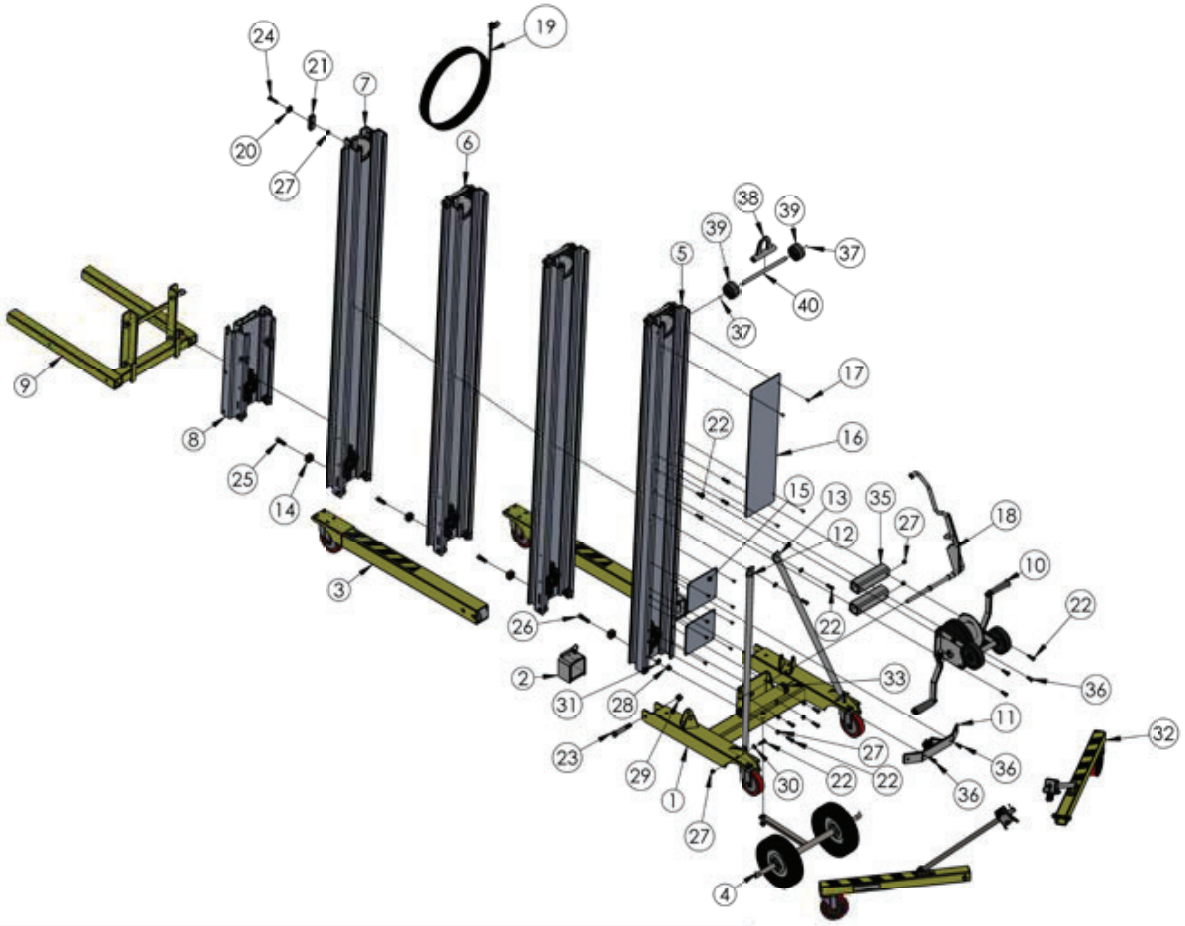
Unit may be loaded with a crane. Unit must be in upright and compact position with legs, forks, and stabilizers securely in their stored positions. If unit has any loose or unsecured items, remove them. Attach lifting hook to top roller bar located on top of bottom mast. Before elevating unit, lifting hook should always point away from the lift.



Appendix A Assembly drawings

Figure A-1 SERIES 2100 LIFT ASSEMBLY
Figure A-2 LIFT UPPER AND LOWER MAST ASSEMBLY
Figure A-3 LOWER PULLEY KIT ASSEMBLY (PART NO. 779070)
Figure A-4 UPPER PULLEY KIT ASSEMBLY (PART NO. 783924)
Figure A-5 CARRIAGE ASSEMBLY (PART NO. 783682)
Figure A-6 BRAKE CAM AND WEIGHT ASSEMBLY
Figure A-7 FORK ASSEMBLY (PART NO. 783653)
Figure A-8 FORK EXTENSION INSTALL KIT ASSEMBLY (PART NO. 783691)
Figure A-9 BASE ASSEMBLY (PART NO. 783750)
Figure A-10 FRONT LEG WELDMENT ASSEMBLY (PART NO. 783730 & 783739)
Figure A-11 OUTRIGGER ASSEMBLY (PART NO. 783935)
Figure A-12 NL WINCH ASSEMBLY (PART NO. 784490)
Figure A-13 MAST HOLD DOWN ASSEMBLY (PART NO. 783040)
Figure A-14 SPREADER PLATE ASSEMBLY (PART NO. 783582)
Figure A-15 10” WHEEL KIT ASSEMBLY (PART NO. 783736)
Figure A-16 LEG LOCK ASSEMBLY (PART NO. 783746)
Figure A-17 OUTRIGGER LOCK TUBE ASSEMBLY (PART NO. 783940)
Figure A-18 OUTRIGGER SUPPORT TUBE ASSEMBLY
Figure A-19 BOOM ASSEMBLY (PART NO. 783642)
Figure A-20 PIPE CRADLE ASSEMBLY (PART NO. 783705)
Figure A-21 TRAY ASSEMBLY (PART NO. 786320)
Figure A-22 SERIES 2100 LIFT LABEL KIT (PART NO. 778383)

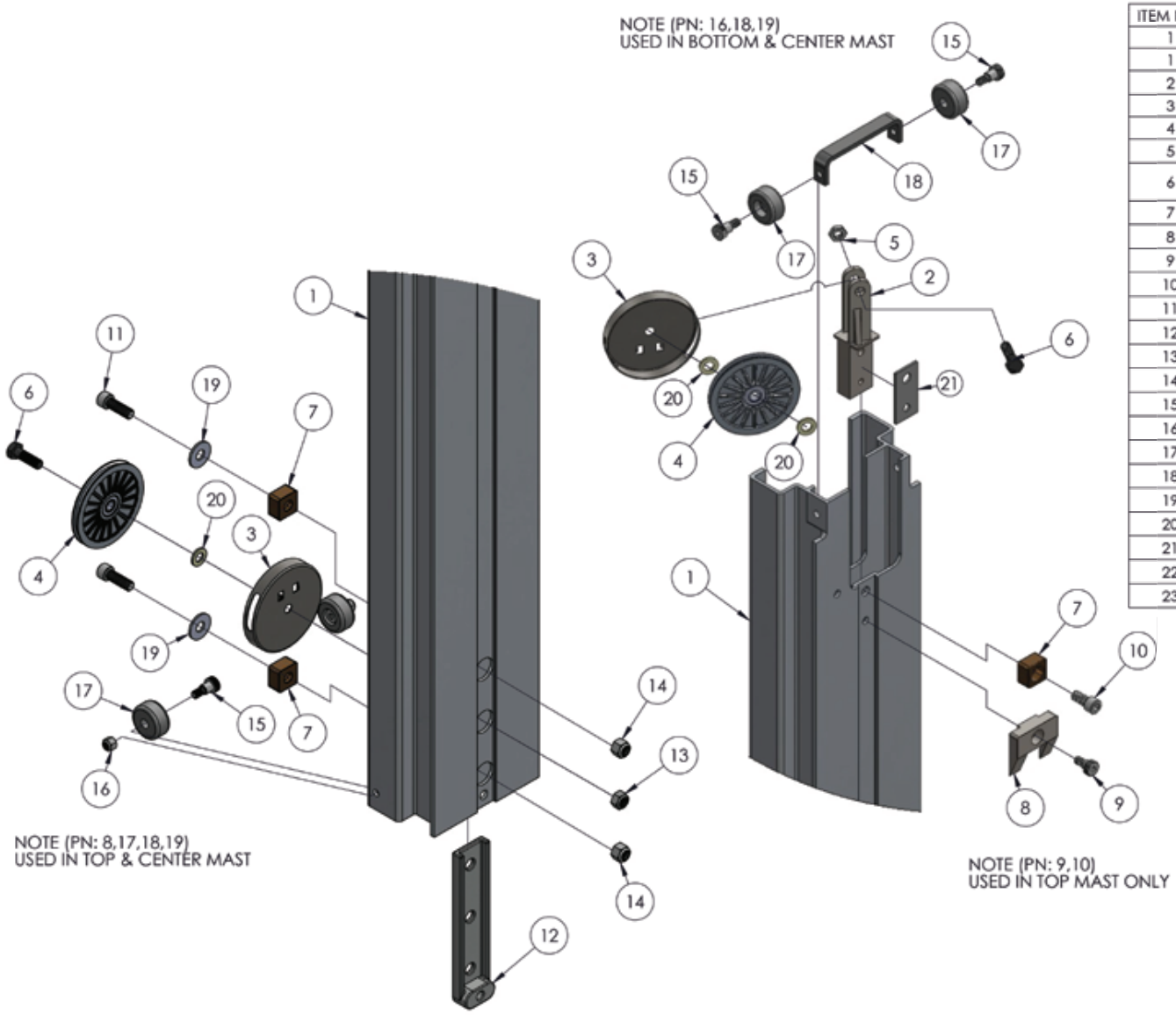
Figure A-1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
37	774053	PIN, COTTER CIRCLE 3/4"	2
38	786585	LIFTING HOOK WELDMENT	1
39	779012	WHEEL, POLYOLEFIN 3"	2
40	783620	SHAFT, ROLLER	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783750	BASE ASSEMBLY, 2100 LIFT	1
2	783746	LEG LOCK ASSEMBLY, 2100 SERIES	2
3	783730	FRONT LEG ASSEMBLY 10/12/15	2
3	783739	FRONT LEG ASSEMBLY 18/20/24/25	2
4	783736	10" WHEEL KIT, 2100 SERIES	1
5	783660	BOTTOM MAST ASSEMBLY-2100	1
6	783662	CENTER MAST ASSEMBLY	2
7	783683	TOP MAST ASSEMBLY	1
8	783682	CARRIAGE ASSEMBLY	1
9	783653	STANDARD FORK ASSEMBLY	1
10	784490	NL WINCH ASSEMBLY	1
11	783582	SPREADER PLATE ASSEMBLY	1
12	780819	BRACE MAST LEFT	1
13	780820	BRACE MAST RIGHT	1
14	783575	STOP BLOCK	4
15	783916	MAST COVER ALUM BTM 2000/2100/2600	2
16	783919	MAST COVER ALUM TOP 2100	1
17	776055	SCREW, SM #8 X 3/4 SELF TAPPING	12
18	783040	MAST HOLD DOWN BAR TYPE 2100	1
19	783628	LOAD LINE ASSEMBLY, 2012/2112	1
19	783629	LOAD LINE ASSEMBLY, 2018/2118	1
19	783630	LOAD LINE ASSEMBLY, 2024/2124	1
20	782910	ROPE RET. WASHER	1
21	783551	LOCK BLOCK	1
22	771060	SCREW, HHC 3/8-16X1.25"LN	14
23	771146	SCREW, HHC 5/8-11X4"LN	2
24	771248	SCREW, FHSC 3/8-1X2"LN	1
25	771257	SCREW, SHC 1/2 - 13 X 1 - 1/2	3
26	771252	SCREW, SHC 1/2-13X2"LN	1
27	772355	NUT, INSERT LOCK 3/8-16	19
28	772358	NUT, INSERT JAM 1/2 -13	1
29	772503	NUT, INSERT JAM 5/8-11	2
30	773040	WASHER, FLAT 3/8	4
31	773094	WASHER, FLAT 1/2 SAE	1
32	783935	OUTRIGGER ASSEMBLY 2000/2100	1
33	779905	CAP, 2" OD TUBE, BLACK	2
34	778383	LABLE KIT, 2100 SERIES	1
35	783552	STANDOFF-2112	2
36	771107	SCREW, HHC 3/8-16 X 1	4

Figure A-2 LIFT UPPER AND LOWER MAST ASSEMBLY

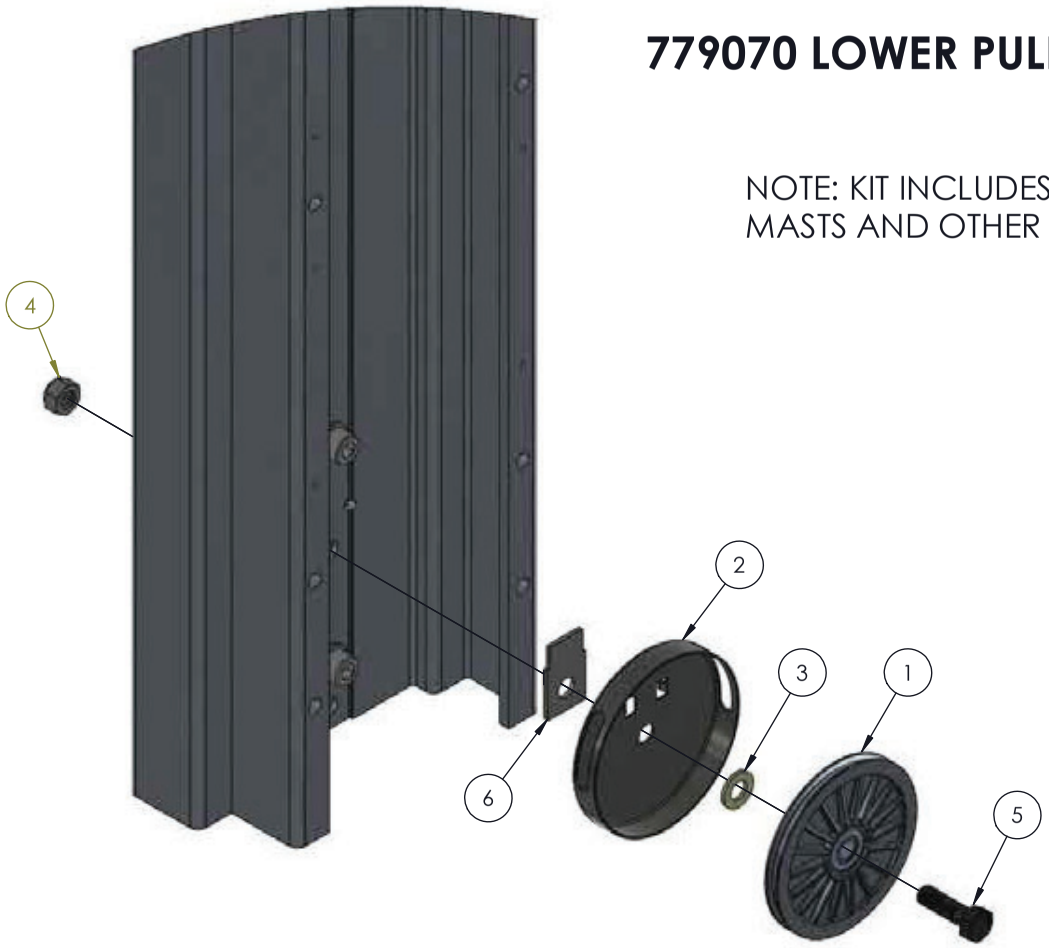


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783661	UPPER MAST FABRICATION - 2100	1
1	783655	MAST FABRICATION - BOTTOM 2100	1
2	783489	TOP PULLEY MOUNT 2600 SERIES	1
3	783536	PULLEY GUARD	2
4	783921	PULLEY ASSY, ALUM 2000/2100 LIFTS	2
5	772505	NUT, INSERT JAM M12	1
6	771166	M12-1.75 x 40MM HI-STRENGTH 10.9 GRADE	2
7	783575	STOP BLOCK	3
8	783694	STOP BLOCK WEDGE	1
9	771339	SCREW SHOULDER 1/2 X 1/4	1
10	771258	SCREW, SHC 1/2-13 X 1	1
11	771257	SCREW, SHC 1/2 - 13 X 1 - 1/2	2
12	783478	BACK PLATE CASTING MACHINED	1
13	772800	NUT, INSERT LOCK 12MM	1
14	772357	NUT, INSERT LOCK 1/2 - 13	2
15	771350	SCREW, SHOULDER 1/2 X 1/2	4
16	772350	NUT, INSERT JAM 3/8 - 16	2
17	783540	MAST ROLLER	4
18	783649	TOP REINFORCEMENT BRACKET	1
19	773060	WASHER, FLAT 1/2 USS	2
20	773108	WASHER, FLAT 7/16" GRADE 8	3
21	783484	PLATE, TOP PULLEY MOUNT 2600	1
22	779070	LOWER PULLEY KIT	1
23	783924	UPPER PULLEY KIT	1

Figure A-3 LOWER PULLEY KIT ASSEMBLY (PART NO. 779070)

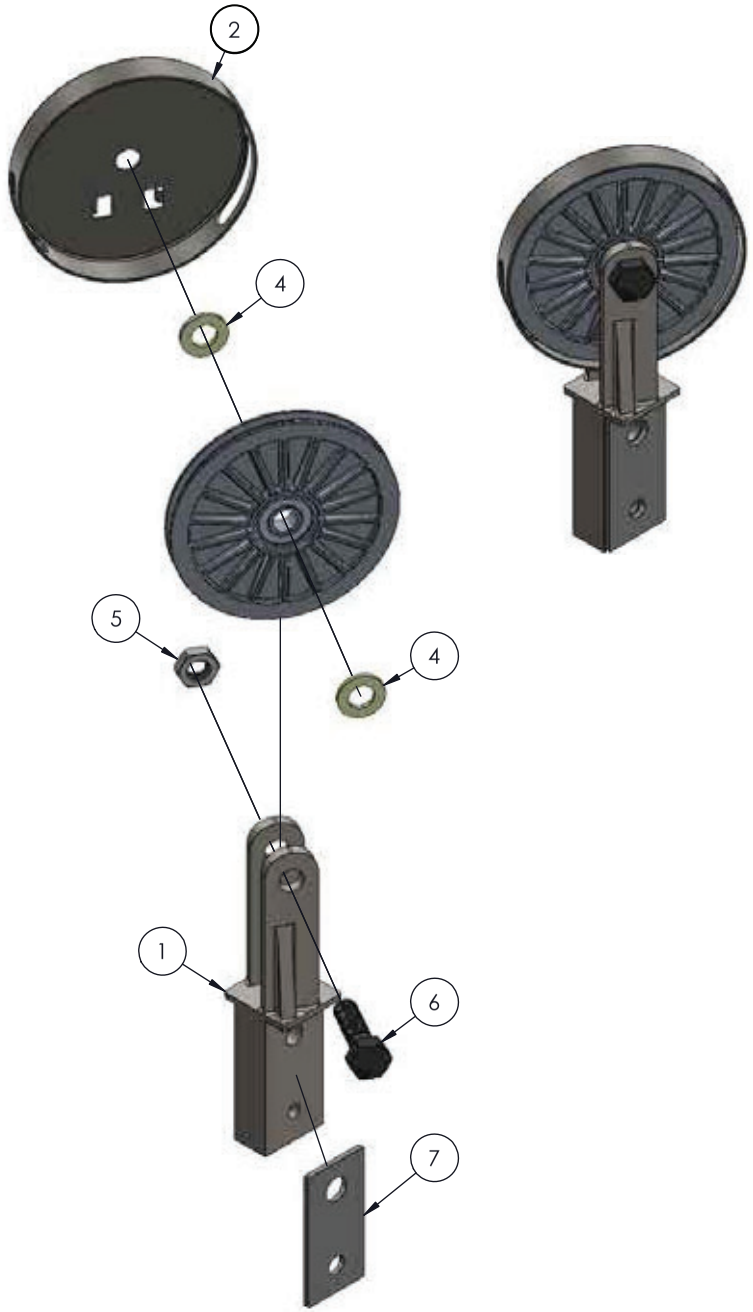
779070 LOWER PULLEY KIT

NOTE: KIT INCLUDES PARTS 1,2,3,4,5.
MASTS AND OTHER HARDWARE FOR ASSEMBLY REFERENCE ONLY.



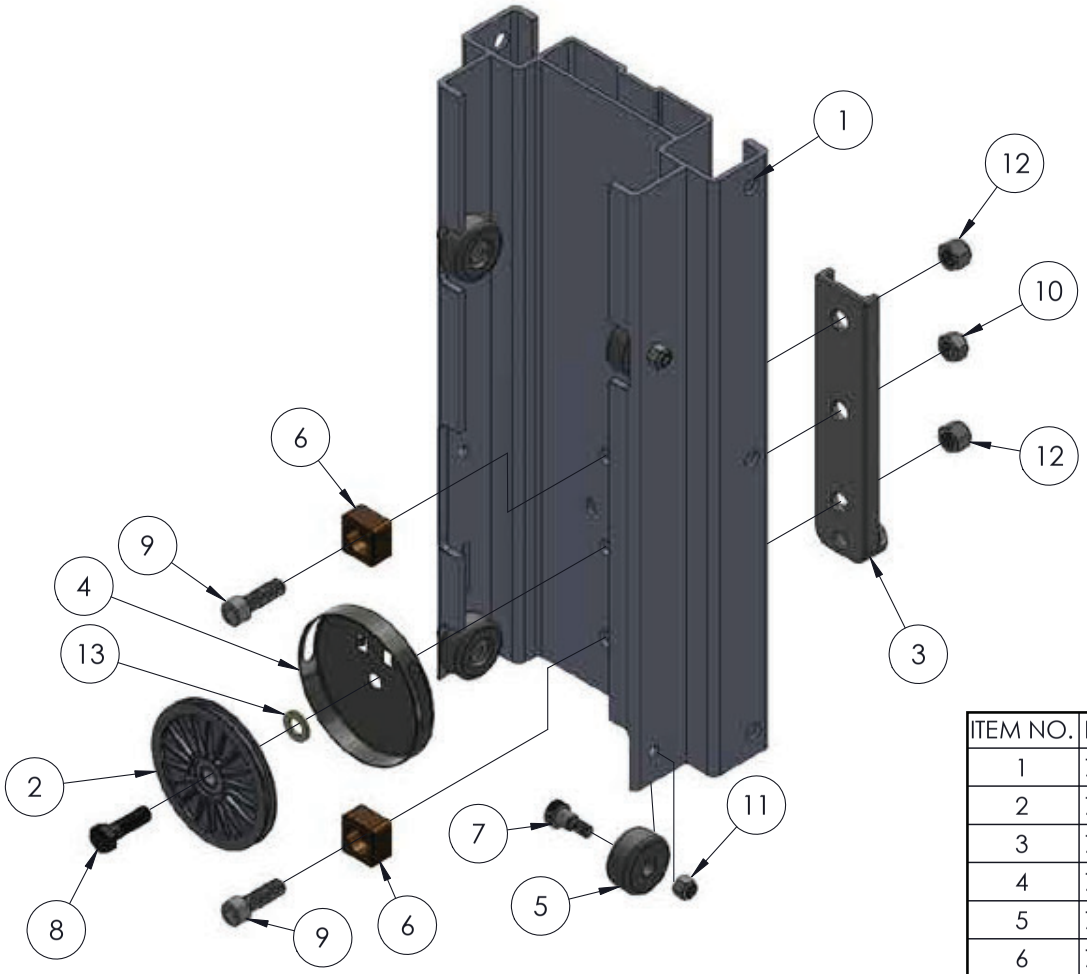
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783921	PULLEY ASSEMBLY	1
2	783536	PULLEY GUARD	1
3	773108	WASHER, FLAT 7/16" GRADE 8	1
4	772505	NUT, INSERT JAM M12	1
5	771166	High-Strength Class 10.9 Steel Hex Head Screw	1
6	783069	SHIM, 2600 PULLEY GUARD	1

Figure A-4 UPPER PULLEY KIT ASSEMBLY (PART NO. 783924)



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783489	UPPER PULLEY BRACKET, 2600 SERIES	1
2	783536	PULLEY GUARD	1
3	783921	PULLEY ASSEMBLY	1
4	773108	WASHER, FLAT 7/16" GRADE 8	2
5	772505	NUT, INSERT JAM M12	1
6	771166	High-Strength Class 10.9 Steel Hex Head Screw	1
7	783484	PLATE, TOP PULLEY MOUNT 2600	1

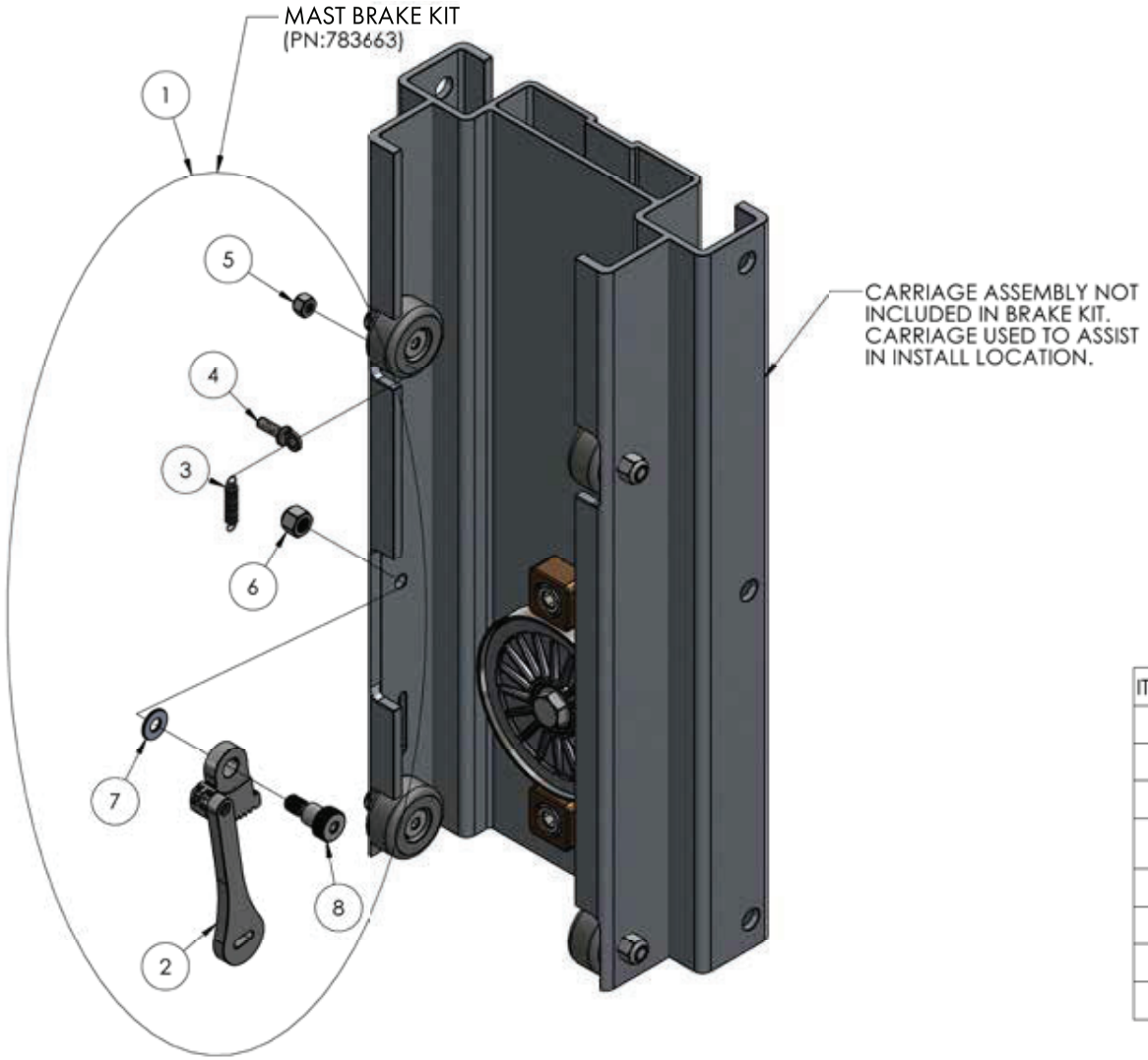
Figure A-5 CARRIAGE ASSEMBLY (PART NO. 783682)



NOTE: TORQUE 8 & 9 TO 125 FT-LBS

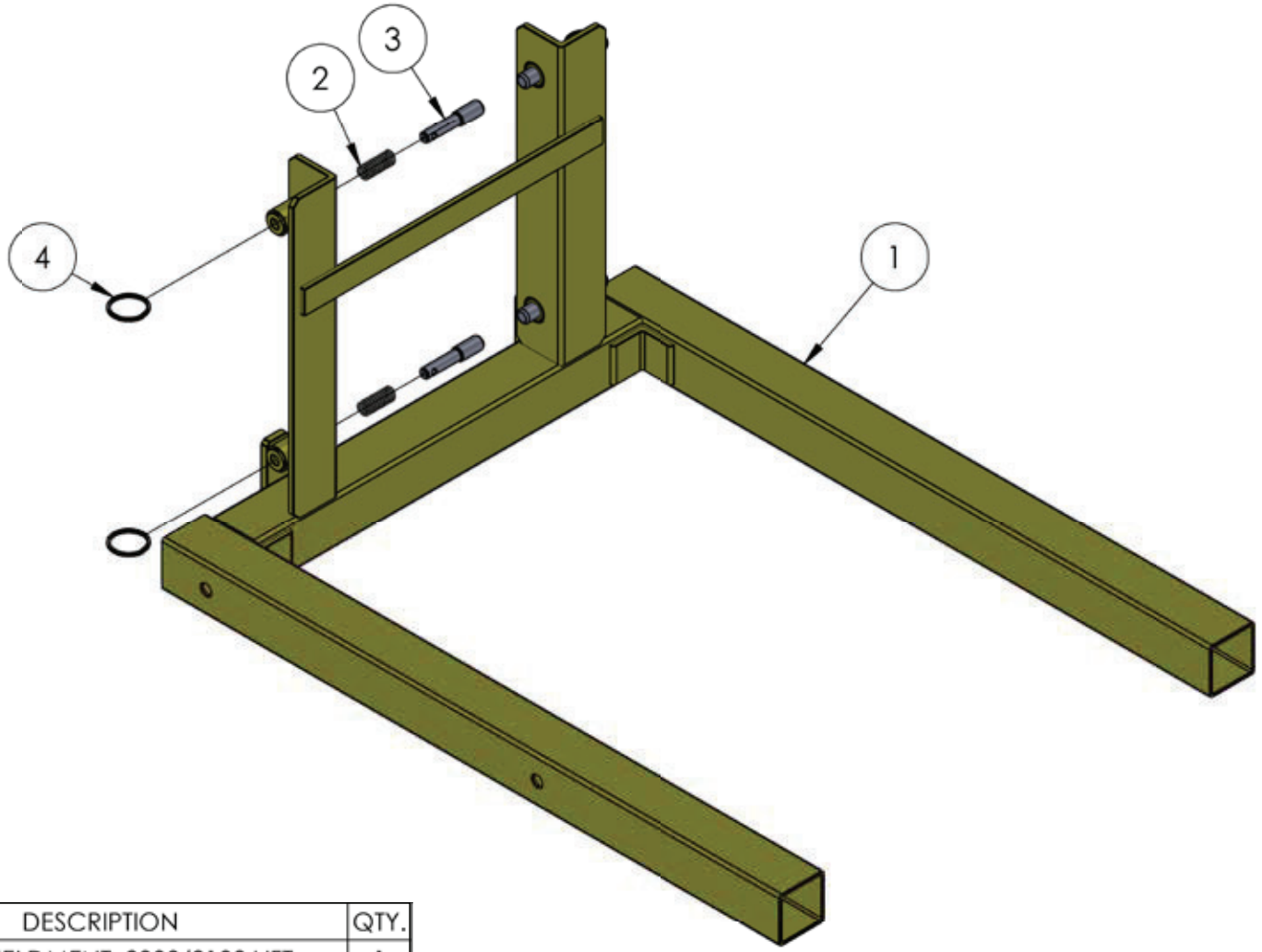
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783534	CARRIAGE	1
2	783921	PULLEY ASSEMBLY	1
3	783478	BACK PLATE WELDMENT	1
4	783536	PULLEY GUARD	1
5	783540	MAST ROLLER	4
6	783575	STOP BLOCK	2
7	771350	SCREW, SHOULDER 1/2 X 1/2	4
8	771166	M12-1.75 x 40MM HI-STRENGTH 10.9 GRADE	1
9	771257	SCREW, SHC 1/2 - 13 X 1 - 1/2	2
10	772800	NUT, INSERT LOCK 12MM	1
11	772350	NUT, INSERT JAM 3/8 - 16	4
12	772357	NUT, INSERT LOCK 1/2 - 13	2
13	773108	WASHER, FLAT 7/16" GRADE 8	1

Figure A-6 BRAKE CAM AND WEIGHT ASSEMBLY



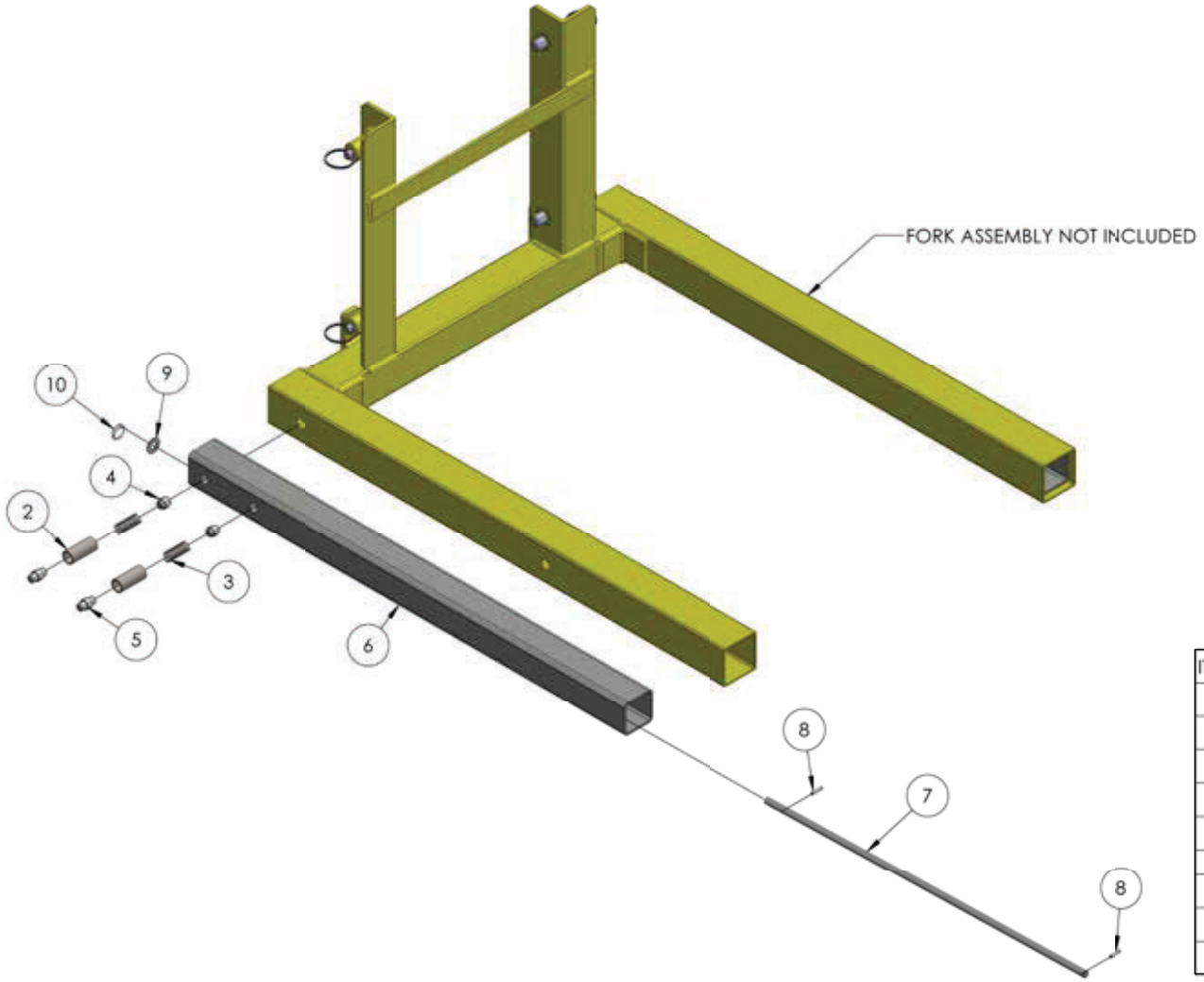
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783663	MAST BRAKE KIT ASSEMBLY	1
2	783692	BRAKE CAM AND WEIGHT ASSEMBLY	1
3	783530	BRAKE SPRING	1
4	779900	SCREW, ADJUSTING (OHIO ES2112) EYE BOLT	1
5	772076	NUT, INSERT LOCK 1/4-20	1
6	772350	NUT, INSERT JAM 3/8 - 16	1
7	773042	WASHER, FLAT 5/16	1
8	771350	SCREW, SHOULDER 1/2 X 1/2	1

Figure A-7 FORK ASSEMBLY (PART NO. 783653)



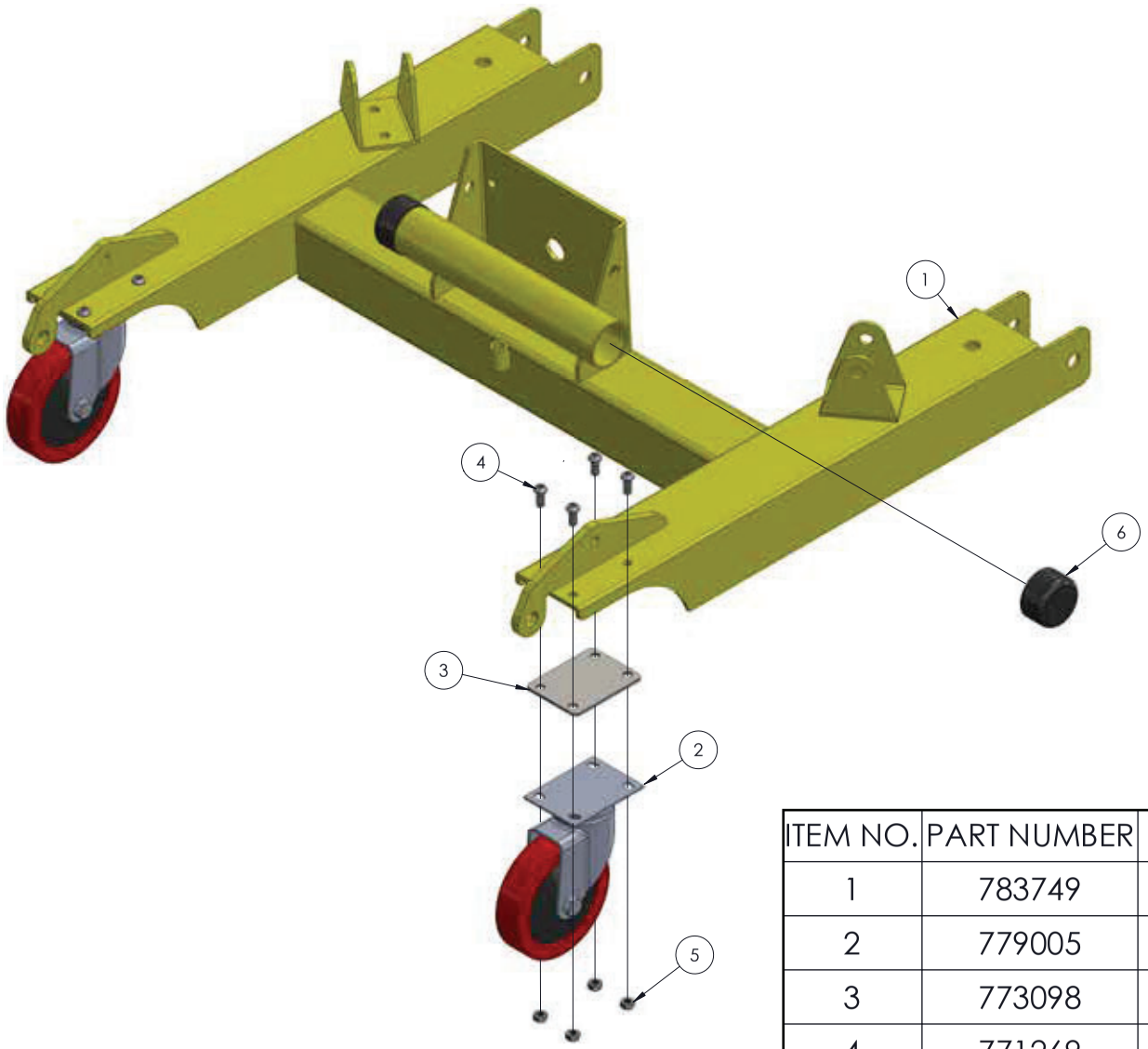
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783547	FORK WELDMENT, 2000/2100 LIFT	1
1	783496	FORK WELDMENT GALV	1
2	776212	SPRING, #DWC - 042 - G - 9	4
3	782510	PLUNGER	4
4	775110	SPLIT RING 1-1/4" NICKEL PLATED	4

Figure A-8 FORK EXTENSION INSTALL KIT ASSEMBLY (PART NO. 783691)



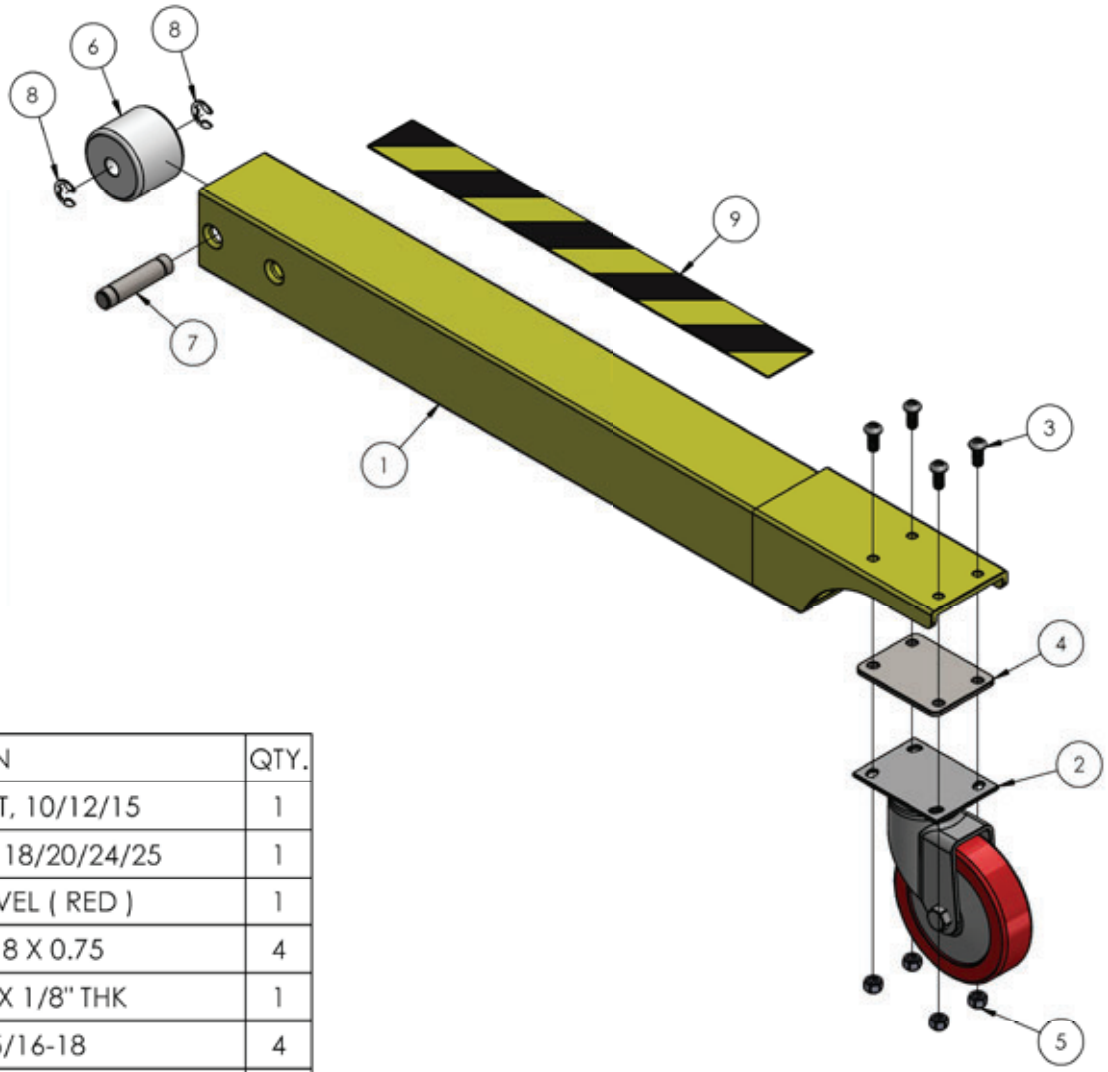
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
2	774035	SPACER, BUTTITE 1/2 X 1.453"	4
3	776212	SPRING, #DWC - 042 - G - 9	4
4	783508	PIN LOCATOR	4
5	783509	PIN DETENT	4
6	783588	FORK EXTENSION WELDMENT	2
7	783789	FORK EXTENSION LIMIT ROD. 2000/2100	2
8	774092	PIN, ROLL 1/8 X 6.25	4
9	773042	WASHER, FLAT 5/16	2
10	774053	COTTER. CIRCLE Z/P 0.048 X 0.75	2

Figure A-9 BASE ASSEMBLY (PART NO. 783750)



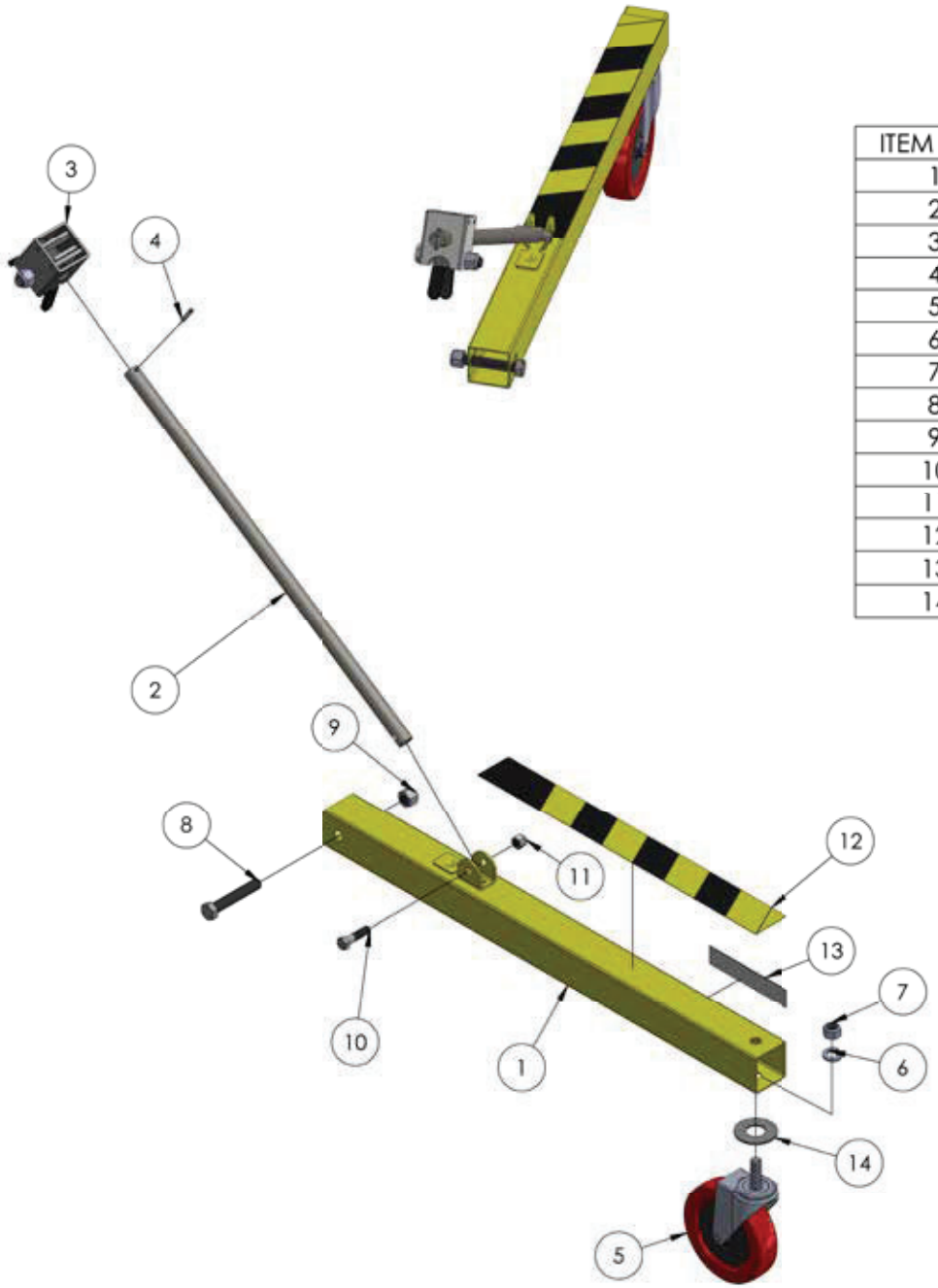
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783749	BASE WELDMENT, 2100 SERIES	1
2	779005	CASTER, 5" PLATE SWIVEL (RED)	2
3	773098	SPACER 2-3/4 X 3-3/4 X 1/8" THK	2
4	771269	SCREW, BHC 5/16-18 X 0.75	8
5	772502	NUT, LOCK LOW PROFILE 5/16-18	8
6	779905	CAP, 2" OD TUBE, BLACK	2

Figure A-10 FRONT LEG WELDMENT ASSEMBLY (PART NO. 783730 & 783739)

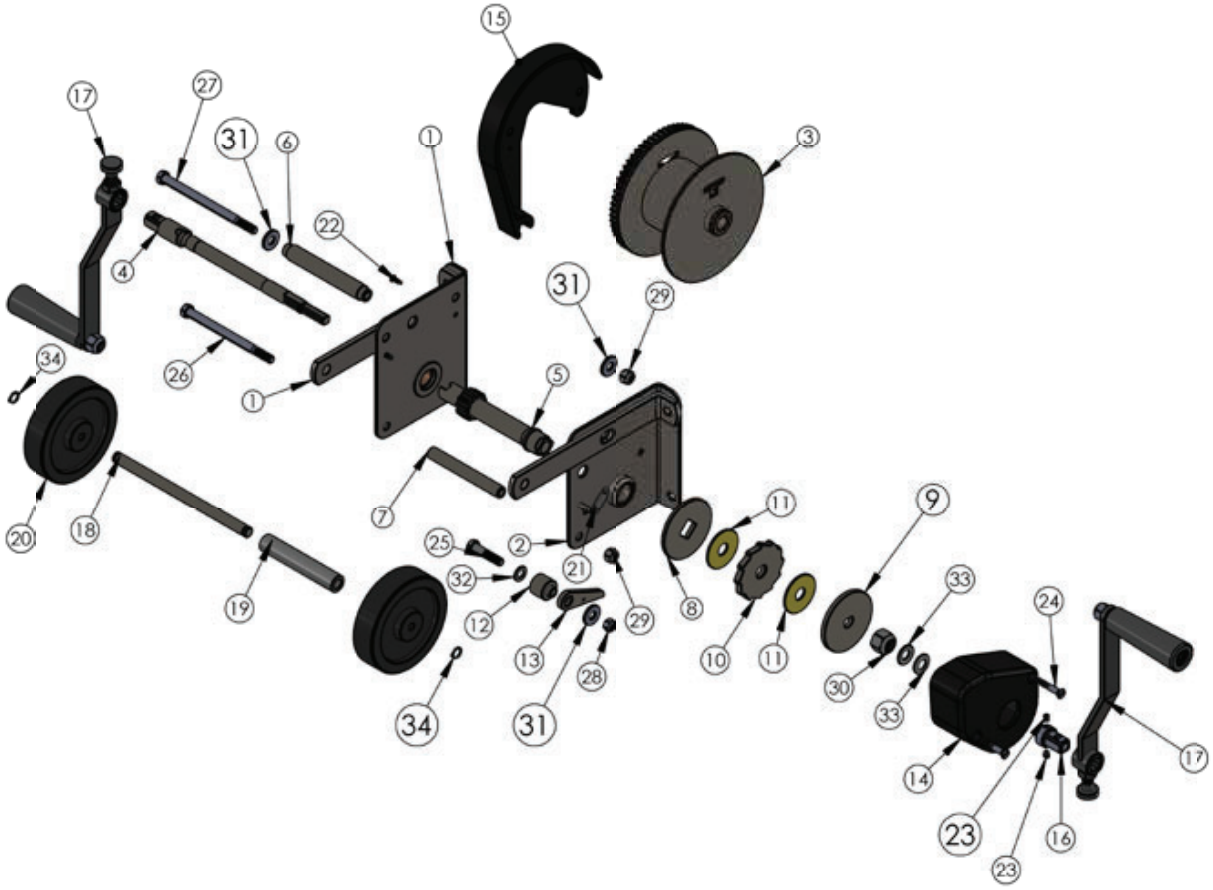


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783732	FRONT LEG WELDMENT, 10/12/15	1
1	783738	FRONT LEG WELDMENT, 18/20/24/25	1
2	779005	CASTER, 5" PLATE SWIVEL (RED)	1
3	771269	SCREW, BHC 5/16-18 X 0.75	4
4	783098	SPACER 2-3/4 X 3-34 X 1/8" THK	1
5	772502	NUT, INSERT JAM 5/16-18	4
6	783569	ROLLER LEG	1
7	783644	SHAFT, LEG ROLLER	1
8	776077	RETAINER RING #5133-62	2
9	778352	TAP, 2" B/Y CAUTION STRIP (SEE NOTE)	1

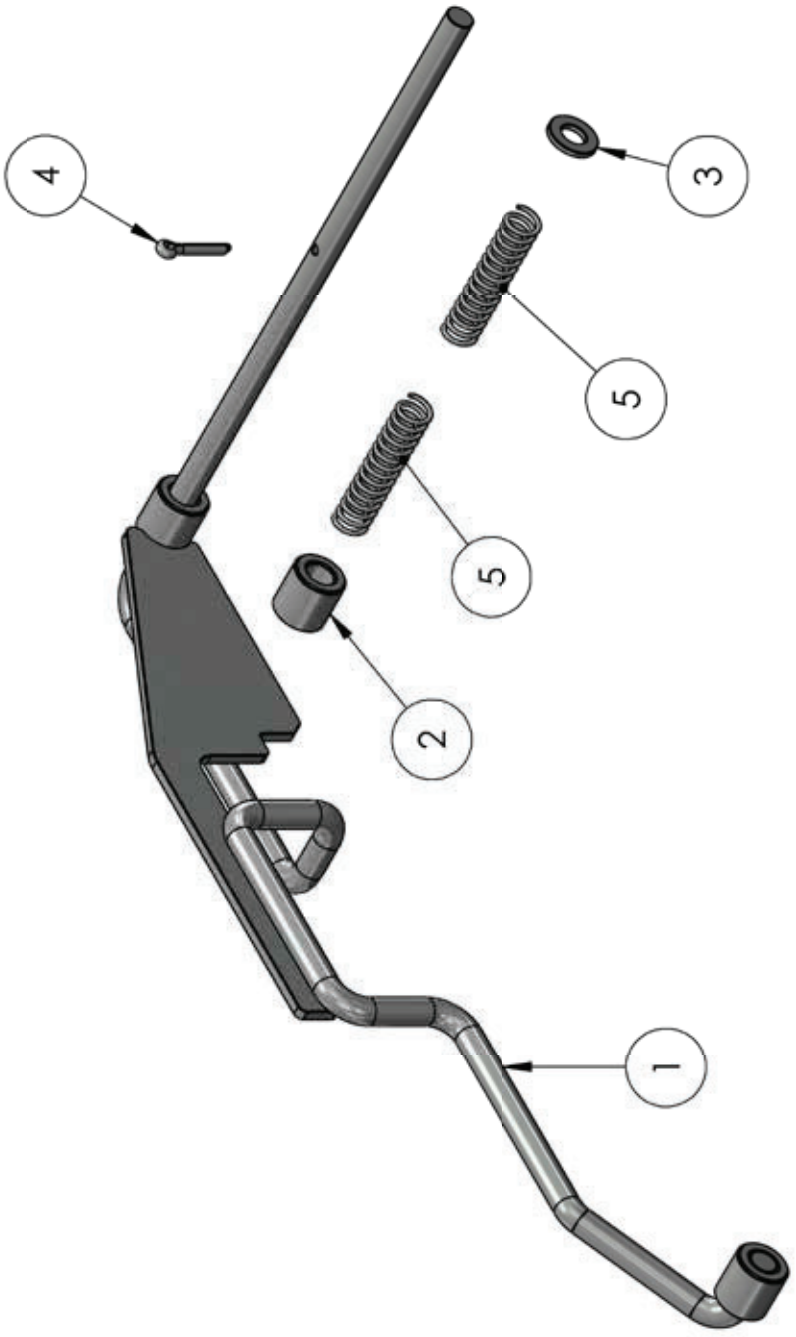
Figure A-11 OUTRIGGER ASSEMBLY (PART NO. 783935)



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783528	LEG WELDMENT, OUTRIGGER	2
2	783938	OUTRIGGER SUPPORT TUBE, 2500	2
3	783940	OUTRIGGER LOCK ASSEMBLY	2
4	774080	PIN ROLL 3/16 X 1.0" LN	2
5	779002	CASTER, 125 X 32 12MM STEM	2
6	773590	WASHER,LOCK 1/2	2
7	772801	NUT, HEX 12MM ZINC PLATED	2
8	771142	SCREW,HHC 1/2-13 X 3	2
9	772358	NUT, INSERT JAM 1/2-13	2
10	771090	SCREW, HHC 3/8-16 X 1.5"	2
11	772350	NUT, INSERT JAM 3/8 - 16	2
12	778352	TAPE, 2" B/Y CAUTION STRIP ¦ SEE NOTE)	2
13	778348	LABEL, LOWER STABELIZER LEG	2
14	773091	WASHER, FLAT 7/8" USS PLATED	2



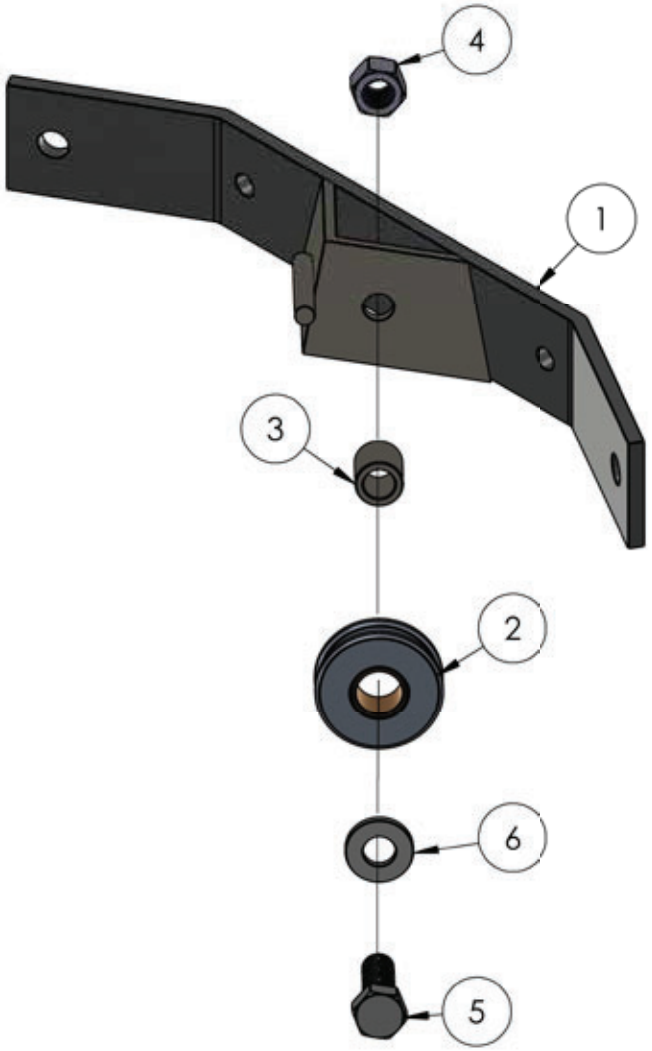
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	784492	SIDE PLATE ASSEMBLY-LH, NL WNCH	1
2	784494	SIDE PLATE ASSEMBLY-RH, NL WNCH	1
3	783613	DRUM ASSEMBLY	1
4	783754	DRIVE SHAFT NL WINCH	1
5	784500	SHAFT, HOIST DRUM PINION, SQ END	1
6	783606	DRUM SPACER SHAFT	1
7	783599	SPACER-WINCH SIDE PLATE	1
8	784498	PLATE, INNER BRAKE DISC, NL WINCH	1
9	780212	PLATE, OUTER BRAKE DISC, NL WINCH	1
10	780214	BRAKE RATCHET WJ-15	1
11	783615	BRAKE DISK	2
12	783598	SPACER-RATCHET	1
13	780216	HOIST RATCHET DOG WJ-19	1
14	783612	BRAKE COVER	1
15	783611	GEAR COVER	1
16	784284	WINCH HANDLE ADAPTER	1
17	783757	WINCH HANDLE	2
18	782619	WINCH SHAFT, ROLLER	1
19	783764	SLEEVE, ROLLER SHAFT	1
20	779045	5" PLASTIC WHEEL	2
21	783621	RATCHET DOG SPRING	1
22	776042	SCREW, BHMS #8-32 X 1/2" LN	2
23	771431	SET SCREW 1/4-20 X 5/16"LN FLT PT	2
24	771290	SCREW, FHSC 1/4-20 X 2.25"LN	2
25	771100	SCREW, HHC 3/8-16X1.75" LN	1
26	771111	SCREW, HHC 3/8-16X5.5" LN	1
27	771105	SCREW, HHC 3/8-16X6" LN	1
28	772502	NUT, INSERT JAM 5/16-18	1
29	772355	NUT, INSERT LOCK 3/8-16	2
30	772375	NUT, INSERT JAM 5/8 -16	1
31	773040	WASHER, FLAT 3/8"	3
32	773631	WASHER, FLAT 3/8"	1
33	773085	WASHER, BELLEVILLE 1/2"	2
34	776072	RING, EXTERNAL RETAINING 1/2"	2

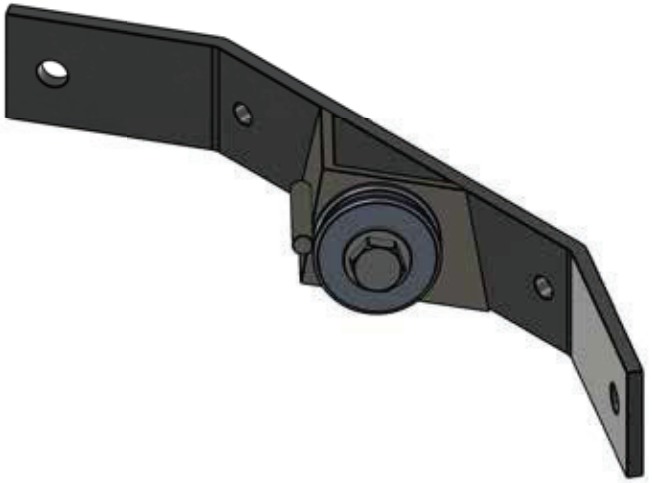


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783041	MAST HOLD DOWN DEVICE WE.DMENT	1
2	783044	MAST HOLD DOWN SPACER	1
3	773096	WASHER, FLAT M12	1
4	774051	PIN, COTTER 0.125 X 0.75"	1
5	776216	SPRING, CENTURY #71912S	2

Figure A-13 MAST HOLD DOWN ASSEMBLY (PART NO. 783040)

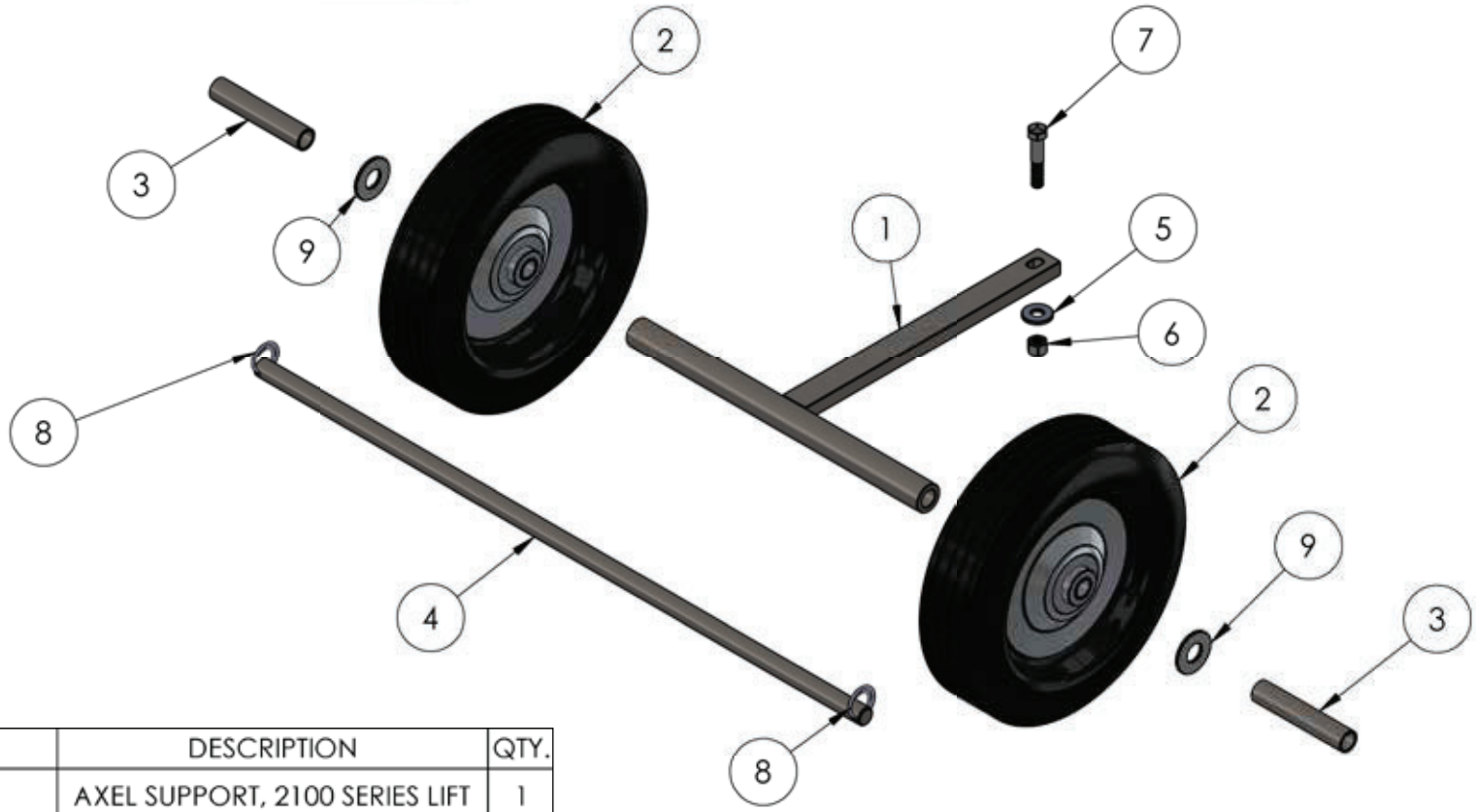
Figure A-14 SPREADER PLATE ASSEMBLY (PART NO. 783582)





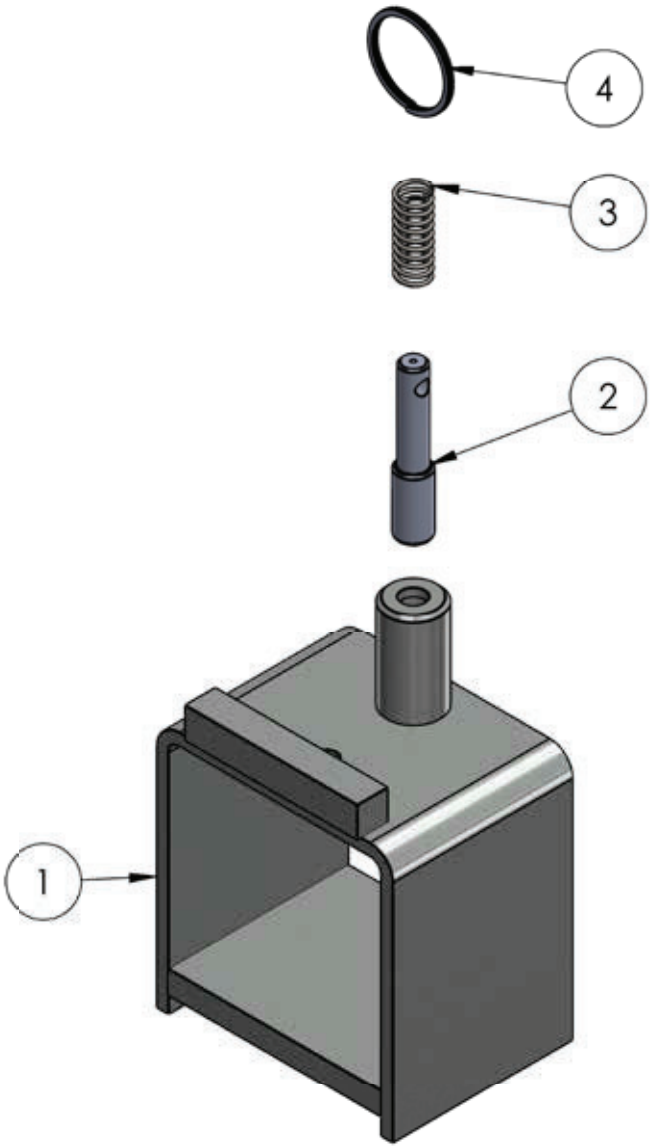
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783581	SPREADER PLATE WELDMENT	1
2	780025	SHEAVE, RAB-222 (2"") Z-22	1
3	782960	ROLLER SHAFT, CARR.715/720	1
4	772358	NUT, INSERT JAM 1/2 -13	1
5	771120	SCREW, HHC 1/2-13 x 1.5" LN	1
6	773094	WASHER, FLAT 1/2 SAE	1

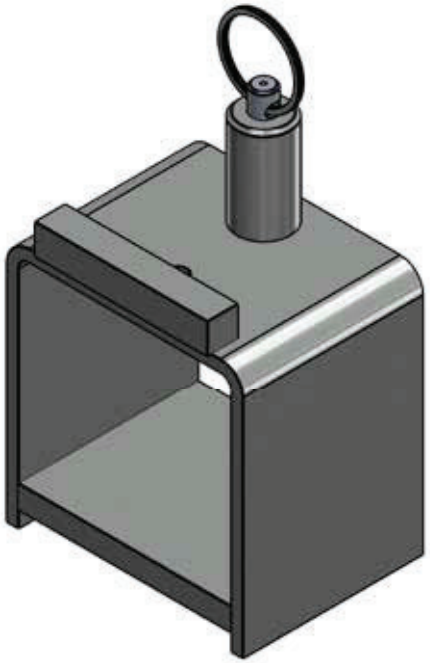
Figure A-15 10" WHEEL KIT ASSEMBLY (PART NO. 783736)



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783735	AXEL SUPPORT, 2100 SERIES LIFT	1
2	779011	WHEEL, 10" RUBBER TIRE	2
3	774039	SPACER, BUTTITE 5/8 X 4"	2
4	782544	AXLE, MODEL 209	1
5	773040	WASHER, FLAT 3/8"	1
6	772355	NUT, INSERT LOCK 3/8-16	1
7	771112	SCREW, HHC 3/8-16 X 2	1
8	774054	COTTER, CIRCLE Z/P 0.072 X 1.125"	2
9	773051	WASHER, FLAT 5/8 USS	2

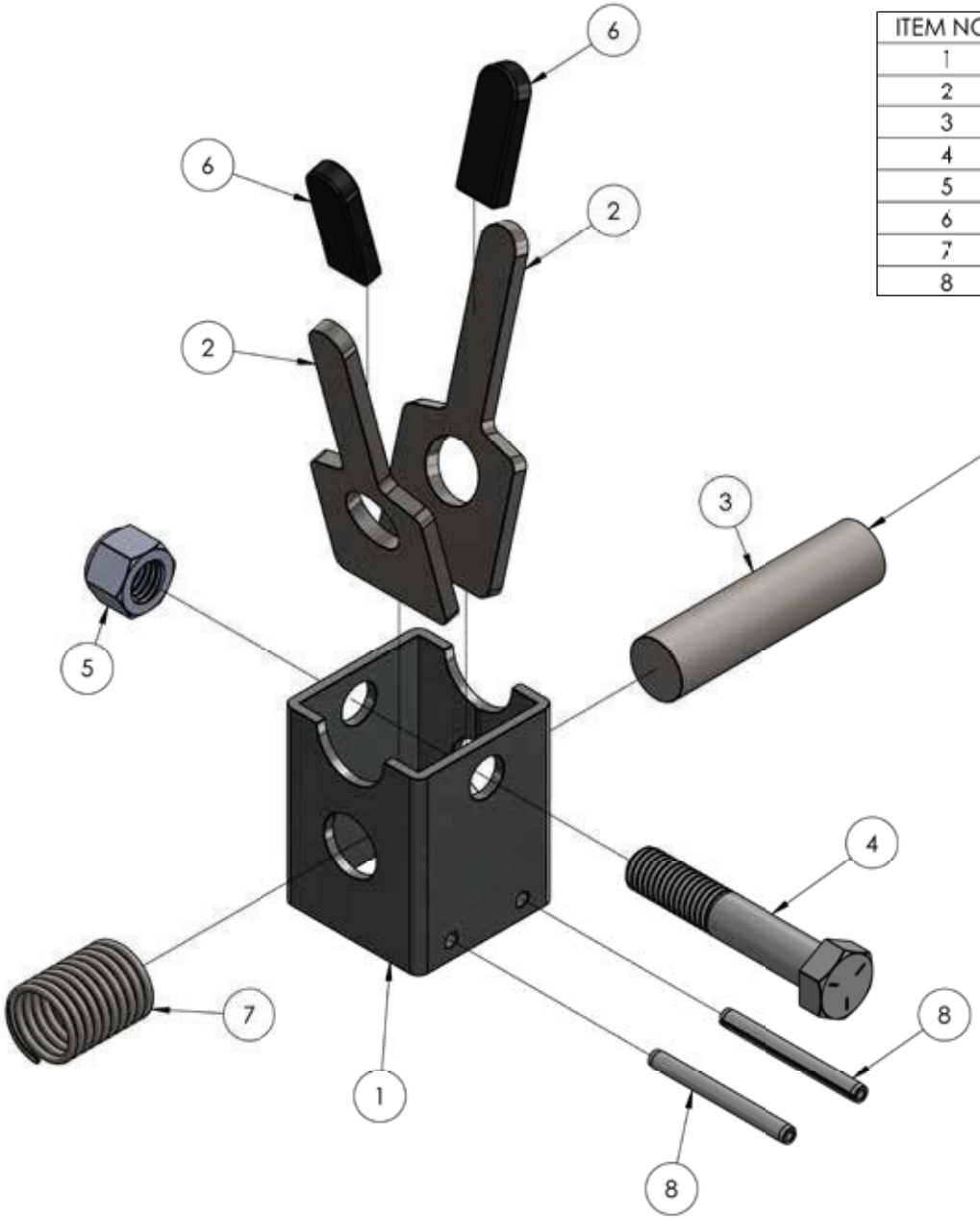
Figure A-16 LEG LOCK ASSEMBLY (PART NO. 783746)





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783740	LEG LOCK WELDMENT, 2100 SERIES	1
2	782510	PLUNGER	1
3	776212	SPRING, #DWC - 042 - G - 9	1
4	775110	SPLIT RING 1-1/4" NICKEL PLATED	1

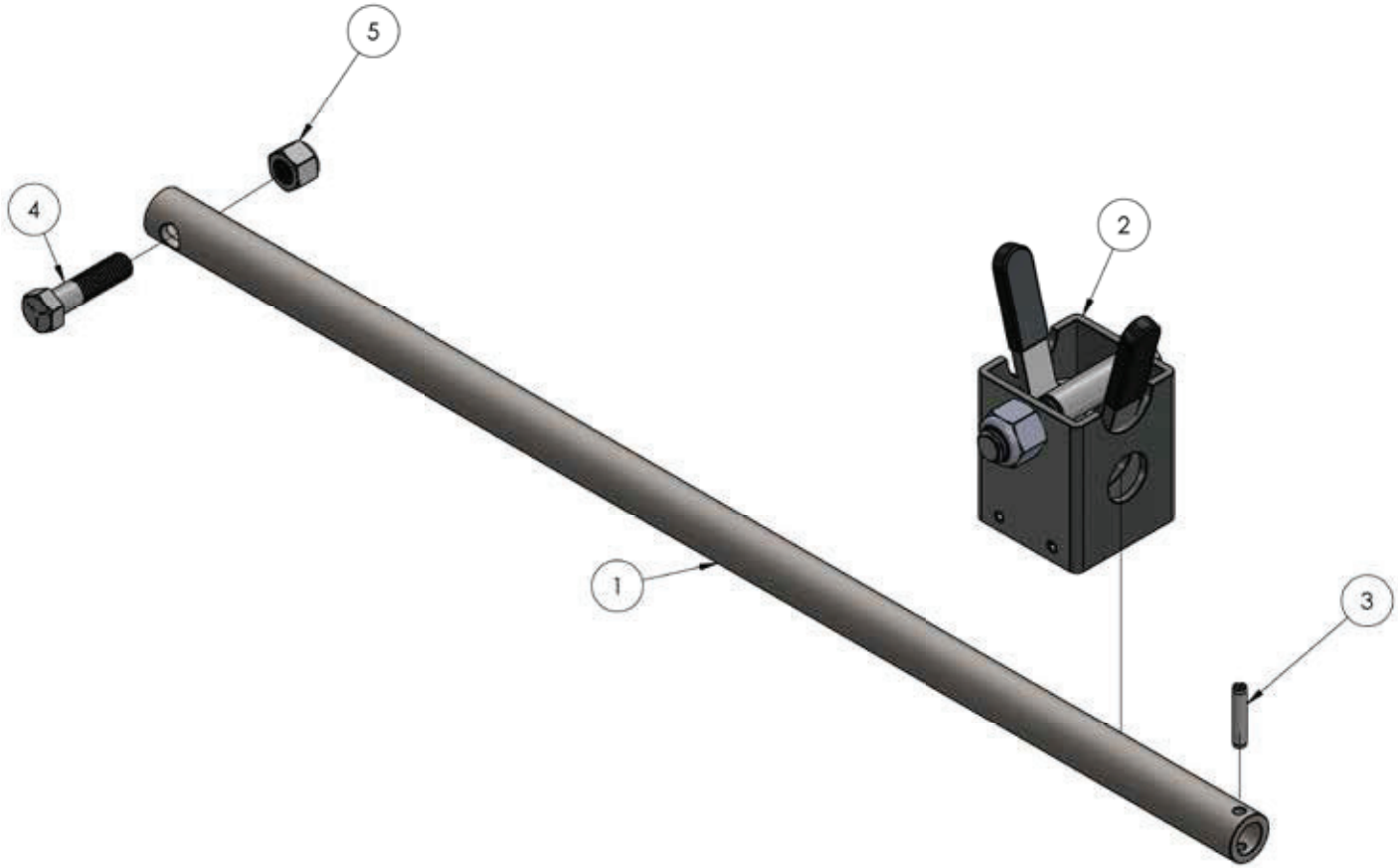
Figure A-17 OUTRIGGER LOCK TUBE ASSEMBLY (PART NO. 783940)



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783941	OUTRIGGER LOCK TUBE	1
2	783942	OUTRIGGER LOCK FINGER	2
3	783944	OUTRIGGER SUPPORT TUBE STUB	1
4	771141	SCREW, HHC 1/2-13X2.75" LN	1
5	772358	NUT, INSERT JAM 1/2 -13	1
6	779938	CAP, RECT RD END 3/16X0.5X2.0"	2
7	776221	CENTURY SPRING #2952	1
8	774084	PIN, SPRING 3/16X2.0"	2

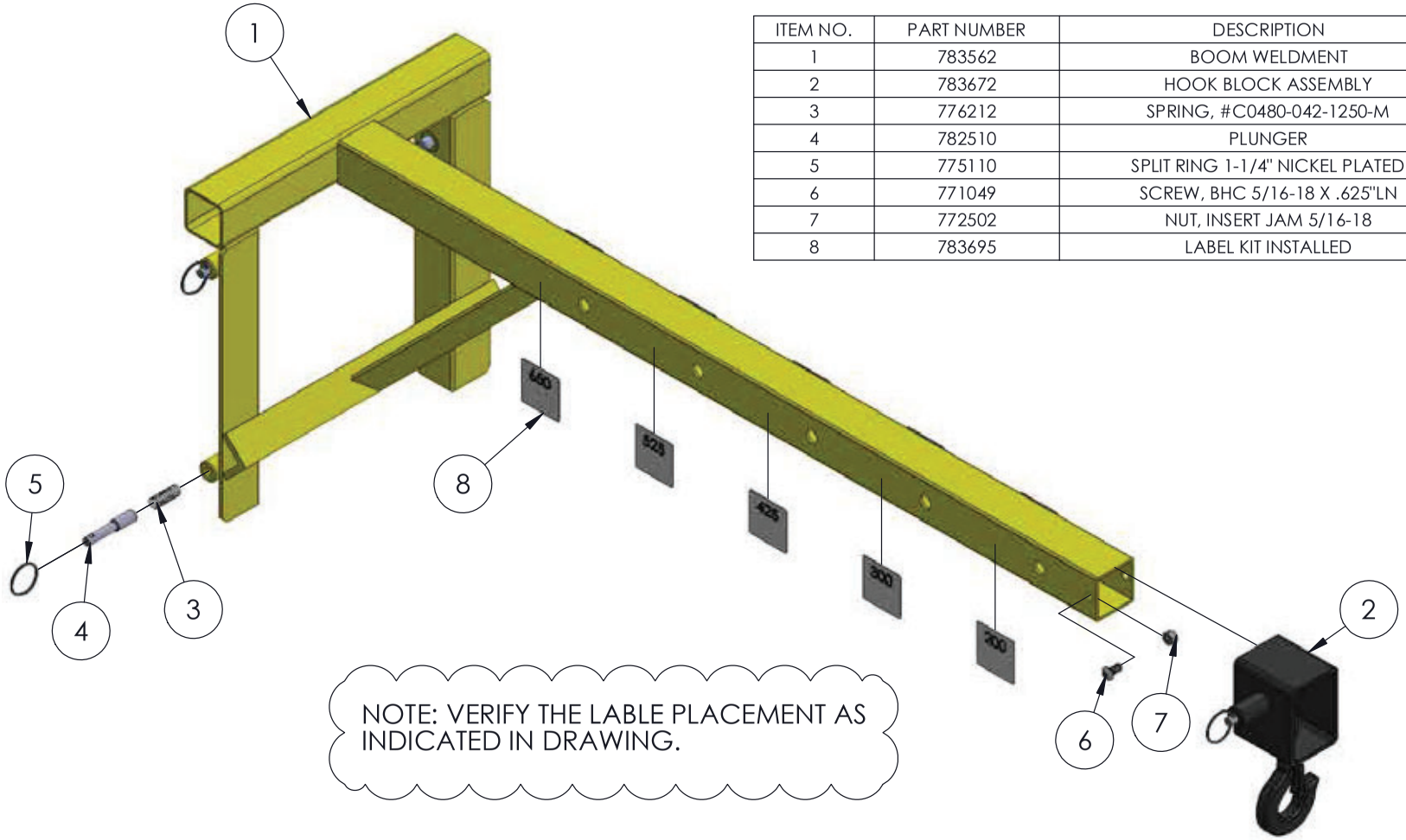
OUTRIGGER SUPPORT TUBE STUB LOCKS ASSEMBLY IS INSTALLED TO SUPPORT THE ASSEMBLY DURING SHIPMENT AND IS TO BE DISCARDED BEFORE INSTALLATION.

Figure A-18 OUTRIGGER SUPPORT TUBE ASSEMBLY



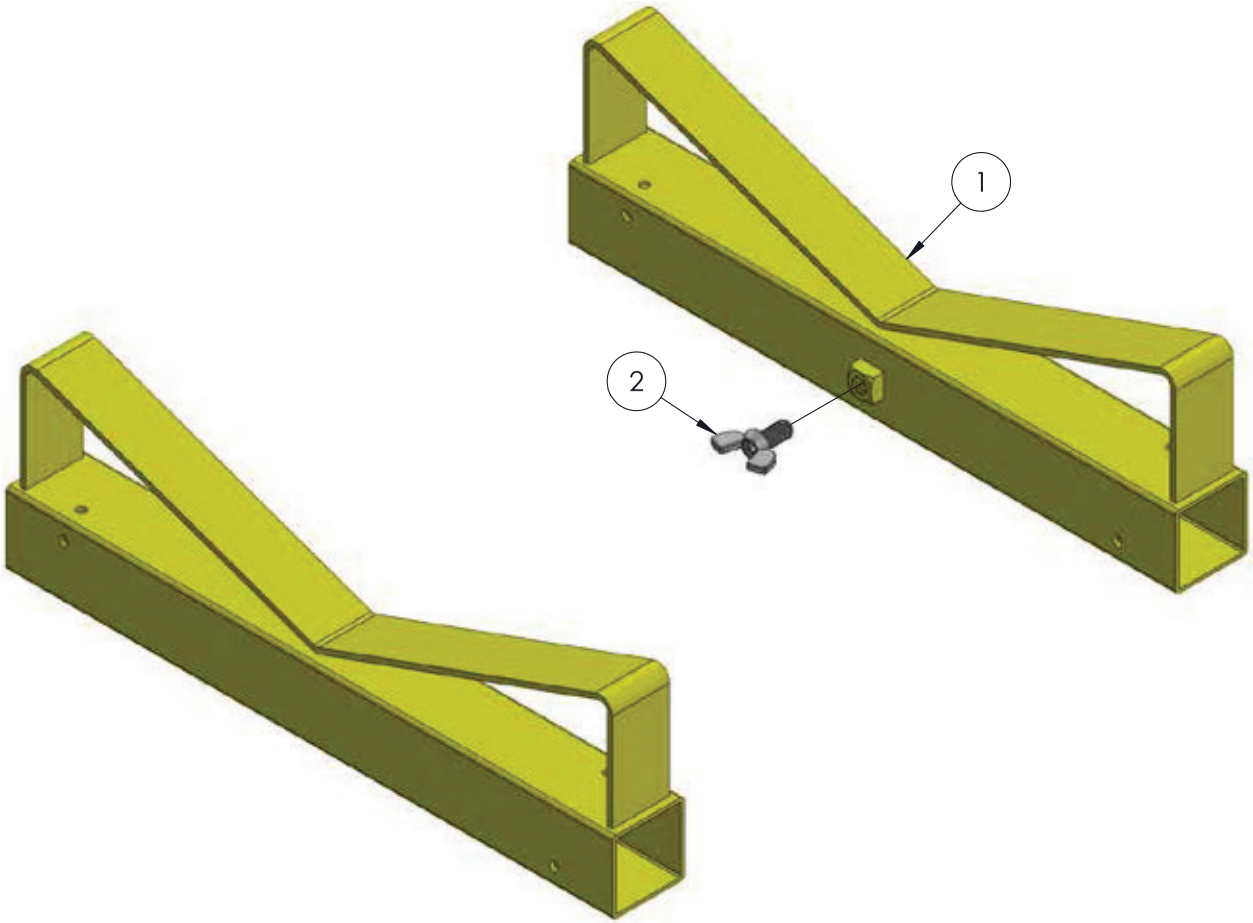
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783938	OUTRIGGER SUPPORT TUBE, 2500	1
2	783940	OUTRIGGER LOCK ASSEMBLY	1
3	774080	PIN ROLL 3/16 X 1.0" LN	1
4	771090	SCREW, HHC 3/8-16 X 1.5"	1
5	772350	NUT, INSERT JAM 3/8 - 16	1

Figure A-19 BOOM ASSEMBLY (PART NO. 783642)

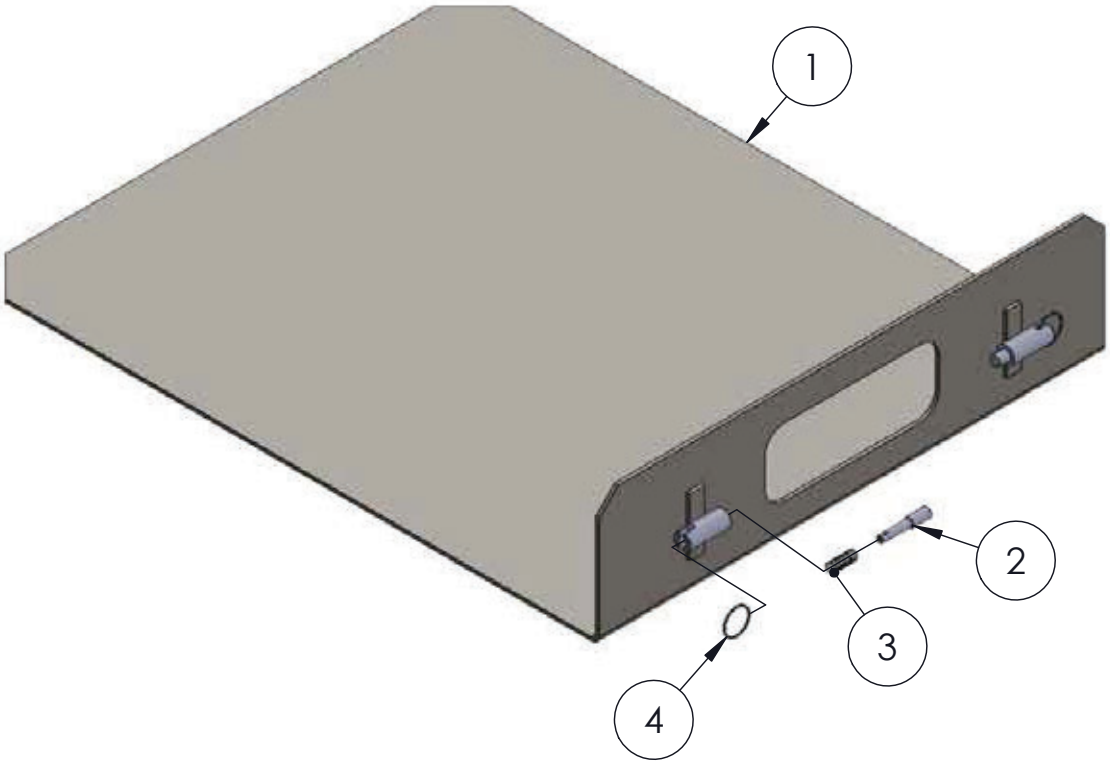


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783562	BOOM WELDMENT	1
2	783672	HOOK BLOCK ASSEMBLY	1
3	776212	SPRING, #C0480-042-1250-M	4
4	782510	PLUNGER	4
5	775110	SPLIT RING 1-1/4" NICKEL PLATED	4
6	771049	SCREW, BHC 5/16-18 X .625"LN	1
7	772502	NUT, INSERT JAM 5/16-18	1
8	783695	LABEL KIT INSTALLED	2

Figure A-20 PIPE CRADLE ASSEMBLY (PART NO. 783705)



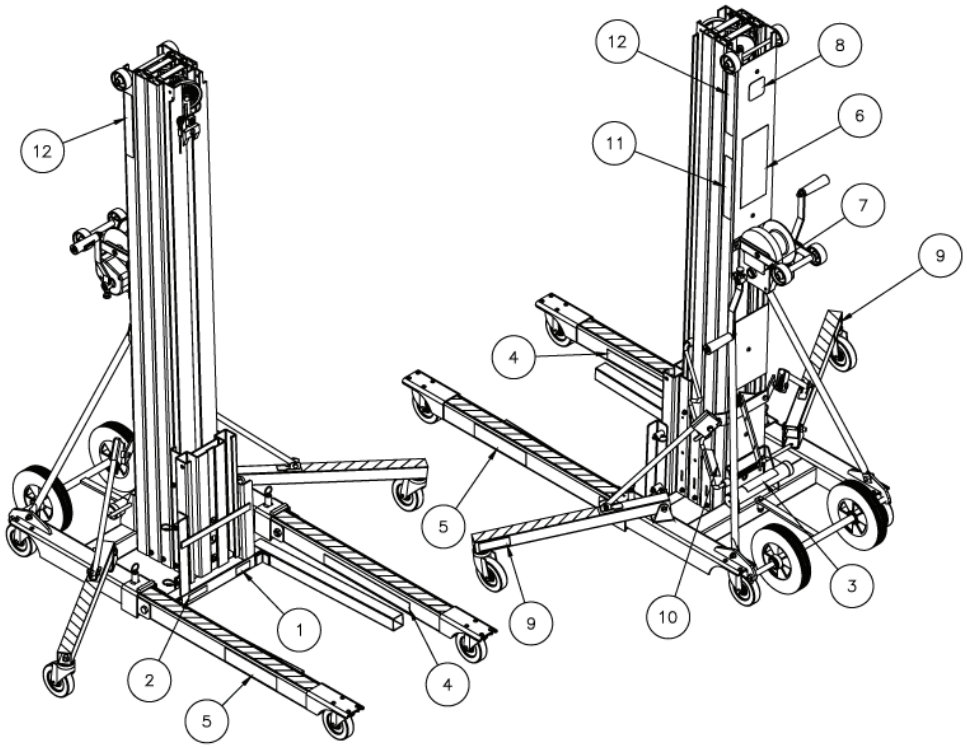
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	783706	PIPE CRADLE WELDMENT	2
2	780286	WING SCREW	2



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	786321	TRAY WELDMENT 2000/2100/2500	1
2	782510	PLUNGER	2
3	776212	SPRING, #C0480-042-1250-M	2
4	775110	SPLIT RING 1-1/4" NICKEL PLATED	2

Figure A-21 TRAY ASSEMBLY (PART NO. 786320)

Figure A-22 SERIES 2100 LIFT LABEL KIT (PART NO. 778383)



Item	Part No.	Description	Qty
1	778347	LABEL, NO RIDERS WARNING	1
2	778339	LABEL, CARRIAGE LATCH WARNING	1
3	778906	LABEL, OP MANUAL - LIFT, READ B4	1
4	778850	LABEL-DO NT STND UDR LOAD	2
5	778342	SUMNER LOGO (2 1/2" HIGH)	2
6	778350	LABEL, GENERAL WARNINGS	1
7	778346	LABEL, WINCH RAISE/LOWER	1
8	778920	LABEL, CAUTION CARRIAGE LATCH	1
9	778348	LABEL, LOWER STABILIZER LEGS	2
10	778461	LABEL, MAST HOLD DOWN BAR TYPE	1
11		778373 - LABEL, CE AND SERIAL NUMBER	1
12	778370	LABEL, MAST 2112	2
12	778371	LABEL, MAST 2118	2
12	778372	LABEL, MAST 2124	2



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