

**WORK BRIDGES**

# **WB1824**

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## **SAFETY, ASSEMBLY & PARTS MANUAL**

Manual Part #: 068522 | Revision: B  
Language: English | Original Instructions



# WORK BRIDGE

## SAFETY, ASSEMBLY & PARTS MANUAL

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**This manual covers the products listed below:**

<u>Part No.</u>	<u>Description</u>
-	WB1824, Work Bridge

### NOTICE

This manual, or a copy of it, must be kept with the machine at all times.  
There is a manual storage container located on the machine for your convenience.

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Allen Products are covered under one or more of the following patent numbers:  
10,100,537; 9,068,301; 9,068,300; 8,360,680; 7,690,864; 7,114,876B1; 6,857,815B2; 6,582,153  
With other Patents Pending.

Printed in U.S.A.

Allen Engineering Corporation ("Allen") warrants its products to be free of defects in material or workmanship for:

### **TWO YEARS FROM END USER'S DATE OF PURCHASE**

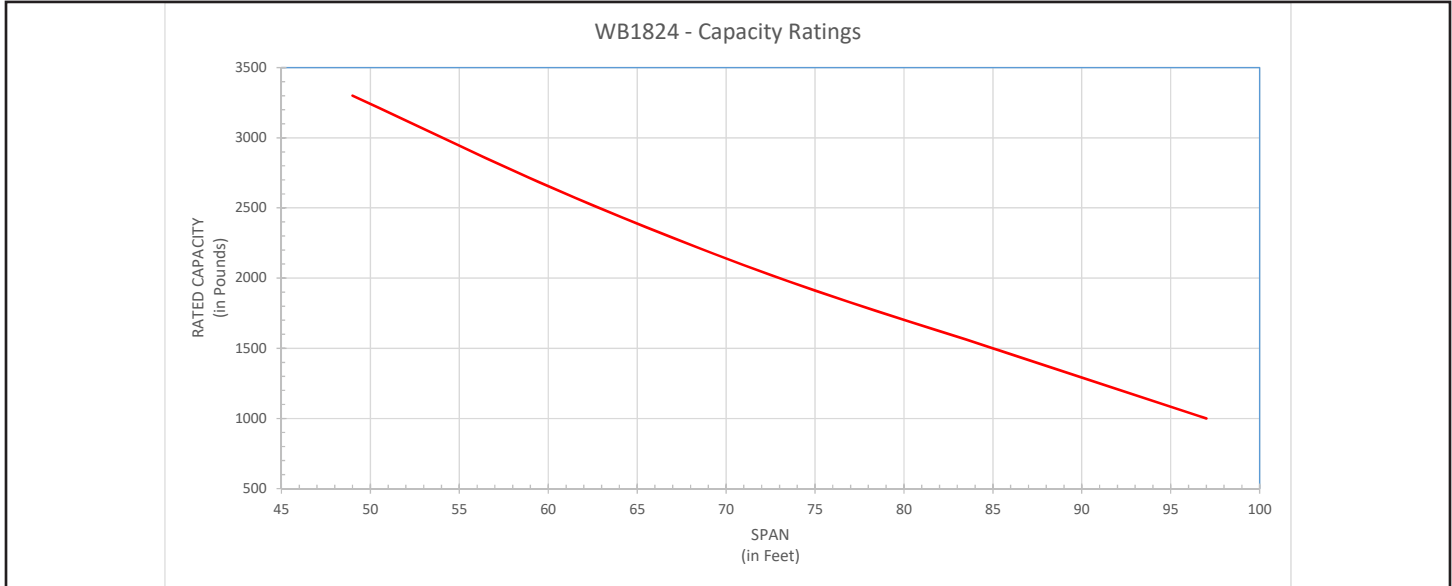
Warranty period begins on the date of purchase by the End User of the product. All warranty is based on the following limited warranty terms and conditions, including the disclaimer of implied warranties and consequential damages.



1. Allen's obligation and liability under this warranty is limited to repairing or replacing parts if, after Allen's inspection, there is determined to be a defect in material or workmanship. Allen reserves the choice to repair or replace.
2. If Allen chooses to replace the part, it will be at no cost to the customer and will be made available to the Allen Distributor, Dealer, or Rental Center from whom the End User purchased the product.
3. Replacement or repair parts, installed in the product, are warranted only for the remainder of warranty period of the product as though they were the original parts.
4. Allen does not warranty engines or batteries. Engine warranty claims should be made directly to an authorized factory service center for the particular engine manufacturer. Batteries are not warranted due to unknown treatment during transport, etc, and any battery claims should be directed to the battery manufacturer.
5. Allen's warranty does not cover the normal maintenance of products or its components (such as engine tuneups and oil & filter changes). The warranty also does not cover normal wear and tear items (such as belts and consumables).
6. Allen's warranty will be void if it is determined that the defect resulted from operator abuse, failure to perform normal maintenance on the product, modification to product, alterations or repairs made to the product without the written approval of Allen. Allen specifically excludes from warranty any damage to any trowels resulting from an impact to the rotors.
7. Impact damage to gear boxes is not covered under the Allen warranty and is deemed customer abuse.
8. Allen will pay shop labor on warranty items at the Allen Shop Labor Rate in existence on the date of the warranty claim. An Allen labor chart will determine the time allowed to complete a repair and will govern the shop labor hours that will be allowed.
9. Allen will pay freight on warranty replacement parts at worldwide standard ground rates. No warranty replacement parts will be shipped air freight at the expense of Allen. Allen only pays outbound freight charges when sending warranty replacement parts to the customer via ground service. Allen does not pay any inbound freight. However, if Allen determines this to be a warranted item, only then will Allen reimburse the customer for inbound freight at standard ground rates.
10. ALLEN ENGINEERING CORPORATION'S WARRANTY POLICY WILL NOT COVER THE FOLLOWING: TAXES; SHOP SUPPLIES; ENVIRONMENTAL SURCHARGES; AIR FREIGHT; TRAVEL TIME; LOSS OF TIME; INCONVENIENCE; LOSS OF RENTAL REVENUE; RENTAL COSTS OF EQUIPMENT USED TO REPLACE THE PRODUCT BEING REPAIRED; LOSS OF USE OF THE PRODUCT; COMMERCIAL LOSS; OR ANY OTHER CHARGES WHATSOEVER OR ANY LIABILITIES FOR DIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGE OR DELAY.
11. ALLEN ENGINEERING CORPORATION MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED. THIS LIMITED WARRANTY IS IN LIEU OF THE WARRANTY OF MERCHANTABILITY AND FITNESS. THERE ARE NO OTHER WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THIS DOCUMENT.
12. No Allen employee or representative is authorized to change this warranty in any way or grant any other warranty unless such change is made in writing and signed by an officer of Allen Engineering Corporation.

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### Notes on Load Capacity Ratings:

1. Maximum span/rating with 12 ft sections (x8): **97ft @ 1000lbs**
  - Total span above **INCLUDES** End Frame and Wheels
  - Total span of **SECTIONS ONLY: 96 ft**
2. All ratings are calculated using the largest sections available to achieve desired length.
  - Excluding telescoping sections.
3. Load ratings are calculated using pneumatic tires.
4. Deflection should exceed no more than 1.32" with Maximum span/weight applied.
5. Cable Tensioning Kit may be used to increase load capacity on larger workbridges. This is **NOT** recommended without consulting an AEC product support specialist or Authorized AEC dealer **FIRST!**
6. Calculations are done without factoring weather. Please note that in adverse weather conditions, capacity ratings need to be decreased.

Please contact Allen Engineering PRODUCT SUPPORT with any questions regarding load capacity.

## **Information Contained in this Manual**



This manual provides information and procedures to safely operate and maintain the Allen Machine.

For your own safety and protection from personal injury, carefully read, understand, and observe the safety instructions described in this manual. Keep this manual or a copy of it with the machine at all times.

Always operate this machine in accordance with the instructions described in this manual. A well maintained piece of equipment will provide many years of trouble free operation.

This manual is divided into the following sections:

**SECTION 1  
SAFETY**

**SECTION 2  
ASSEMBLY**

**SECTION 3  
PARTS**

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Complete any warranty requirements as specified by the engine manufacturer in their instructions found inside the manual box located on the back of the riding trowel operator's seat.

Your engine and clutch is not manufactured by Allen Engineering Corporation, Inc, and therefore is not covered under Allen Engineering Corporation, Inc warranty.

Your engine manufacturer should be contacted if you wish to purchase a parts manual or a repair manual for your engine.

Refer to enclosed owners engine manual for complete O&M instructions. See your battery manufacturer for battery warranty.

## Dealer Information / Ordering Parts

## GENERAL INFORMATION

Your Dealer has Allen Engineering Corporation trained mechanics and original Allen replacement parts. Always contact the Allen Dealer who sold you this machine for Allen Certified repairs and replacement parts.

Place Allen Dealer information below for future reference.

Dealer Name: _____  Dealer Phone #: (____) - ____ - _____  Address: _____  City / State / Zip: _____	Salesman: _____  Salesman Phone #: _____  Additional Comments: _____ _____ _____
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Follow the instructions below when ordering parts to insure prompt and accurate delivery:

1. All orders for service parts - include the serial number for the machine. Shipment will be delayed if this information is not available.
2. Include correct description and part number from the "PARTS & DECALS MANUAL"
3. Specify exact shipping instructions, including the preferred routing and complete destination address.
4. **DO NOT** return parts to AEC without receiving written authorization from AEC. All authorized returns must be shipped pre-paid.
5. When placing an order, please contact the AEC dealer nearest you.



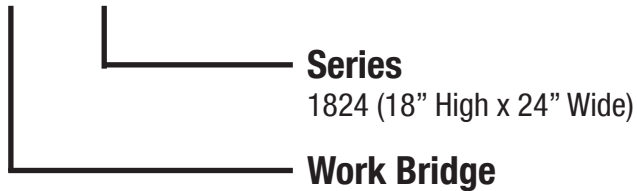
**ALL INFORMATION, SPECIFICATIONS, AND ILLUSTRATIONS IN THIS MANUAL  
ARE SUBJECT TO CHANGE WITHOUT NOTICE AND ARE BASED ON THE LAT-  
EST INFORMATION AT THE TIME OF PUBLICATION.**

**Manufacturer's Codes:**

When ordering parts or requesting service information, you will always be asked to specify the model and serial numbers of the machine. The legends below specifically defines each significant character or group of characters of the Model Number and Serial Number codes.

**Model Number**

WB 1824



These work bridges are ideal for joint work, applying curing compounds, bull-floating, applying textures or whenever a suitable platform for doing bridge work is required. The Allen Work Bridge is an economical workhorse on any job site.

Work Bridge 1824	
Dimensions (H x W x L)	18" x 24"
Section Lengths:	3' 6' 12' 15'-25' {Telescopic}
Maximum Length (Feet)	95
Minimum Height (in) {Top of Deck}	15
Maximum Height (in) {Top of Deck}	60
Weight	3 FT Section: 82 lbs -Powered: 90 lbs 6 FT Section: 143 lbs -Powered: 153 lbs 12 FT Section: 234 lbs -Powered: 249 lbs Telescopic Section: 791 lbs -Powered: 816 lbs
Wheels	Pneumatic Foam Filled Flanged Style for Forms Cupped Style for Pipe Rails

# **SECTION 1 SAFETY**

**WARNING**

## RESPIRATORY HAZARDS

Grinding/cutting/drilling of masonry, concrete, metal and other materials can generate dust, mists and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproductive harm.



## SILICOSIS WARNING

Grinding/cutting/drilling of masonry, concrete, metal and other materials with silica in their composition may give off dust or mists containing crystalline silica.

**WARNING**

Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## CALIFORNIA PROPOSITION 65 WARNING

Gasoline engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

## Safety-Alert Signs

This manual contains Safety-Alert Signs, as defined below, which must be followed to reduce the possibility of improper service damage to the equipment or personal injury. Read and follow all Safety-Alert Signs included in this manual.



**NOTE** defines an operating procedure, condition, etc. which is essential to highlight that contains useful or important information.



**EMERGENCY** is used for the identification of safety equipment, first aid, or emergency egress locations.



**NOTICE** used to convey safety information on labels and signs.



**CAUTION** is indicative of a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



**WARNING** Indicative of a potentially hazardous situations that could result in death or serious injury




**DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury




# Spark Arrestor Notice / Hazard Symbols

## SECTION 1 SAFETY

 **WARNING**







 **ADVERTENCIA**



Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

El funcionamiento de este equipo puede producir chispas que pueden iniciar incendios en vegetación seca. Un supresor de chispas puede ser necesario. El operador debe comunicarse con las agencias locales de bomberos para las leyes o reglamentos relativos a los requisitos de prevención de incendios.

Some states require that in certain locations arrestors be used on internal combustion engines. A spark arrestor is a device designed to prevent the discharge of spark or flames from the engine exhaust. It is often required when operating equipment on forested land to prevent the risk of fires. Consult the engine distributor or local authorities and make sure that you comply with regulations regarding spark arrestors.

Symbol	Safety Hazard
	Lethal exhaust gas hazards
	Explosive fuel hazards
	Burn hazards
	Rotating parts/crush hazards
	Pressurized fluid hazards
	Hydraulic fluid hazards

Potential hazards associated with the operation of this equipment will be referenced with hazard symbols which may appear throughout this manual in conjunction with safety notes.



Familiarity and proper training are required for the safe operation of this equipment! Equipment operated improperly or by untrained personnel can be dangerous! Read the operating instructions contained in both this manual and the engine manual and familiarize yourself with the location and proper use of all controls.

- **NEVER** operate this machine in applications for which it is not intended.
- **NEVER** operate this machine while under the influence of drugs or alcohol.
- **NEVER** allow anyone to operate this equipment without proper training. People operating this equipment must be familiar with the risks and hazards associated with it.
- **NEVER** touch the engine or muffler while the engine is on or immediately after it has been turned off. These areas get hot and may cause burns.
- **NEVER** use accessories or attachments that are not recommended by AEC. Damage to equipment and injury to the user may result.
- **NEVER** operate the machine with the belt guard missing. Exposed drive belt and pulleys create potentially dangerous hazards that can cause serious injuries.
- **NEVER** leave machine running unattended.
- **DO NOT** run the machine indoors or in an enclosed area such as a deep trench unless adequate ventilation, through such items as exhaust fans or hoses, is provided. Exhaust gas from the engine contains poisonous carbon monoxide gas; exposure to carbon monoxide can cause loss of consciousness and may lead to death.
- **ALWAYS** remain aware of moving parts and keep hands, feet, and loose clothing away from the moving parts of the equipment.
- **ALWAYS** keep hands, feet, and loose clothing away from moving parts of the machine.
- **ALWAYS** read, understand, and follow procedures in the Operator's Manual before attempting to operate the equipment.
- **ALWAYS** be sure operator is familiar with proper safety precautions and operation techniques before using machine.
- **ALWAYS** close fuel valve on engines equipped with one when machine is not being operated.
- **ALWAYS** store the equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.
- **ALWAYS** operate the machine with all safety devices and guards in place and in working order.



Internal combustion engines present special hazards during operation and fueling. Read and follow the warning instructions in the engine owner's manual and the safety guidelines below. Failure to follow the warnings and safety guidelines could result in severe injury or death.

- **DO NOT** run the machine indoors or in an enclosed area such as a deep trench unless adequate ventilation, through such items as exhaust fans or hoses, is provided. Exhaust gas from the engine contains poisonous carbon monoxide gas; exposure to carbon monoxide can cause loss of consciousness and may lead to death.
- **DO NOT** smoke while operating the machine.
- **DO NOT** smoke when refueling the engine.
- **DO NOT** use fuel that is more than 90 days old. Use of unmixed, improperly mixed, or fuel older than 90 days, (stale fuel), may cause hard starting, poor performance, or severe engine damage and void the product warranty.
- **DO NOT** refuel a hot or running engine.
- **DO NOT** refuel the engine near an open flame.
- **DO NOT** spill fuel when refueling the engine.
- **DO NOT** run the engine near open flames.
- **ALWAYS** refill the fuel tank in a well-ventilated area.
- **ALWAYS** replace the fuel tank cap after refueling.
- **ALWAYS** keep the area around the muffler free of debris such as leaves, paper, cartons, etc. A hot muffler could ignite the debris and start a fire.



Poorly maintained equipment can become a safety hazard! In order for the equipment to operate safely and properly over a long period of time, periodic maintenance and occasional repairs are necessary.

- **ALWAYS** disconnect the battery before servicing the equipment.
- **DO NOT** attempt to clean or service the machine while it is running. Rotating parts can cause severe injury.
- **DO NOT** crank a flooded engine with the spark plug removed on gasoline-powered engines. Fuel trapped in the cylinder will squirt out the spark plug opening.
- **DO NOT** test for spark on gasoline-powered engines if the engine is flooded or the smell of gasoline is present. A stray spark could ignite the fumes.
- **DO NOT** use gasoline or other types of fuels or flammable solvents to clean parts, especially in enclosed areas. Fumes from fuels and solvents can become explosive.
- **ALWAYS** turn engine off and remove key from machine before performing maintenance or making repairs.
- **ALWAYS** handle blades carefully. The blades can develop sharp edges which can cause serious cuts.
- **ALWAYS** keep the area around the muffler free of debris such as leaves, paper, cartons, etc. A hot muffler could ignite the debris and start a fire.
- **ALWAYS** replace worn or damaged components with spare parts designed and recommended by AEC Corporation.
- **ALWAYS** disconnect the spark plug on machines equipped with gasoline engines, before servicing, to avoid accidental start-up.
- **ALWAYS** switch off the power supply at the battery disconnect before adjusting or maintaining the electrical equipment.
- **ALWAYS** keep the machine clean and labels legible. Replace all missing and hard-to read labels. Labels provide important operating instructions and warn of dangers and hazards.

**ALWAYS DO A THOROUGH INSPECTION OF THE SLINGS, CHAINS, AND HOOKS BEFORE ATTEMPTING TO LIFT THE MACHINE!**

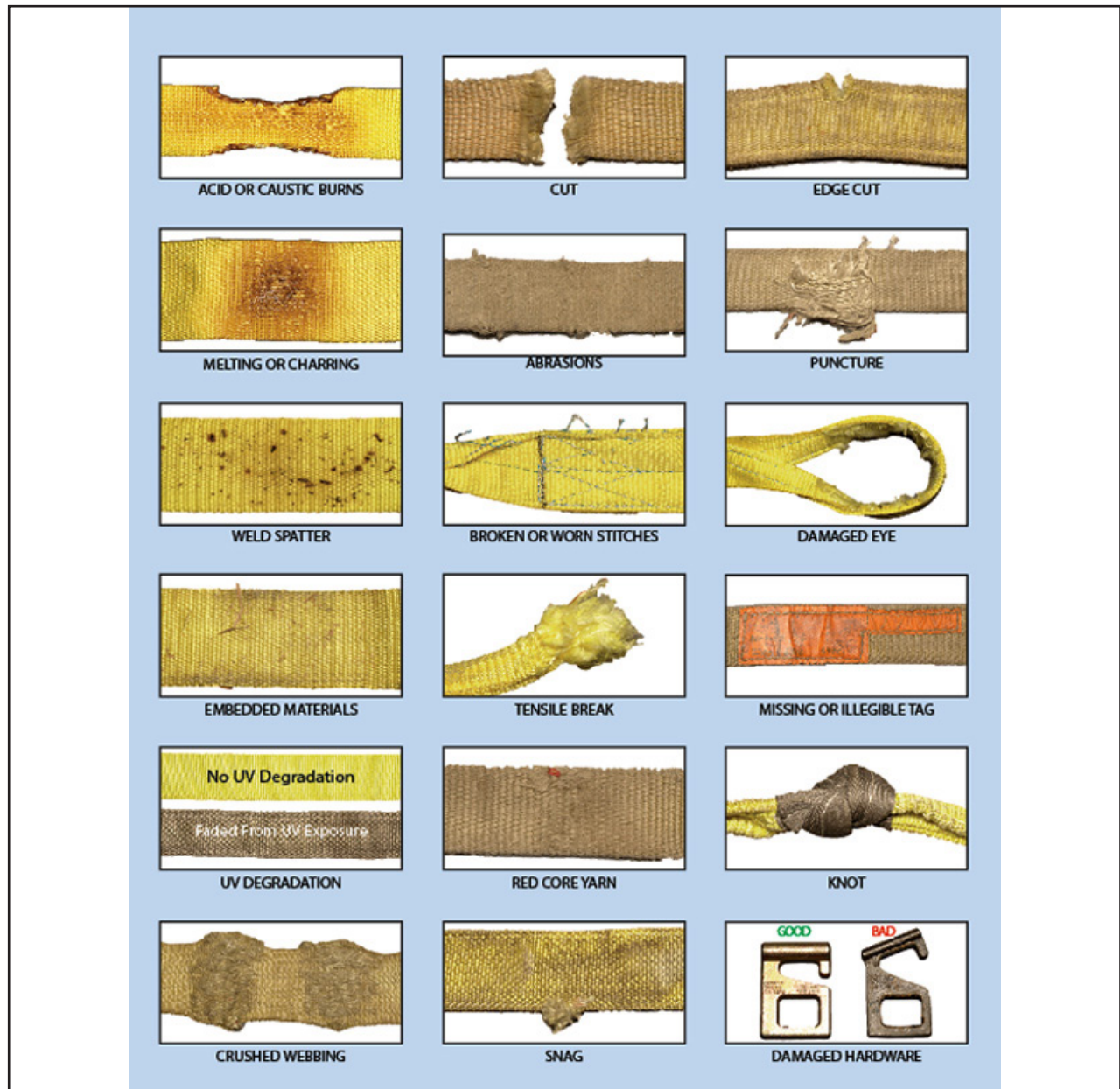
OSHA has set forth guidelines which detail the use of Rigging Equipment for Material handling. This guideline is found under

**OSHA Standard Number: 1926.251**

Please read and follow all guidelines found in this standard.

Removal from service.

**Synthetic web slings shall be immediately removed from service if any of the following conditions are present:**



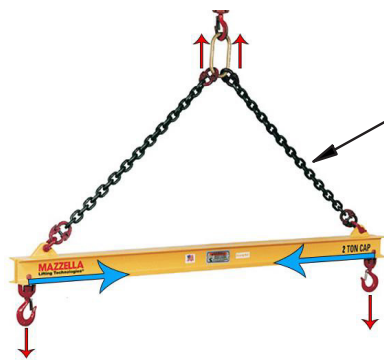
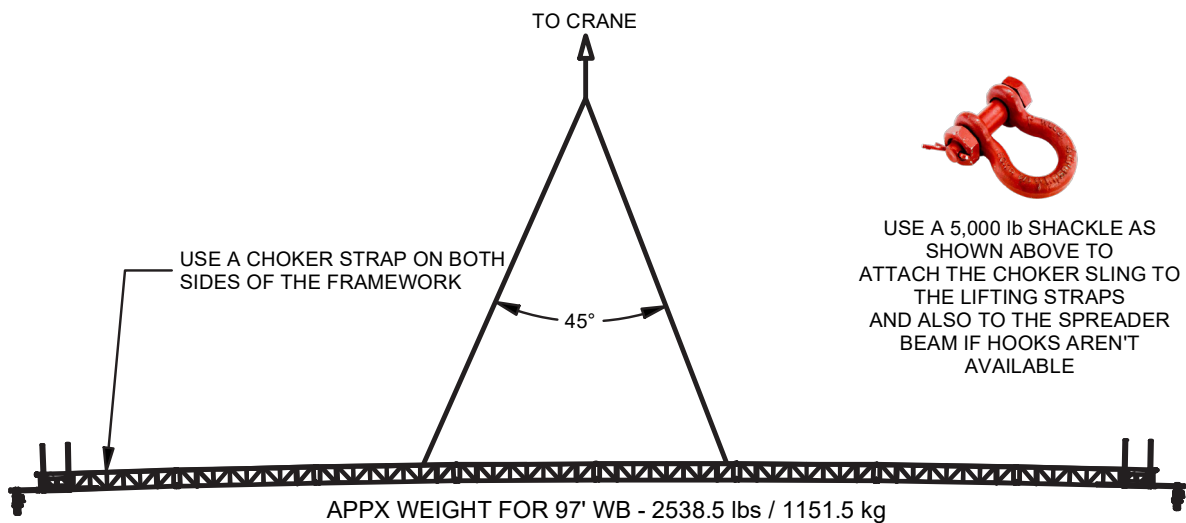
## SECTION 1 SAFETY

# Lifting Safety

PLEASE CONSULT ON-SITE SAFETY COORDINATOR BEFORE ATTEMPTING TO LIFT MACHINE.  
IMPROPER RIGGING AND LIFTING CAN RESULT IN **INJURY OR DEATH**.

BELOW IS AN EXAMPLE OF STRAP PLACEMENT AND LIFTING PROCEDURES, BUT THIS  
**SHOULD NOT** BE USED AS A GUIDE FOR LIFTING THE MACHINE!

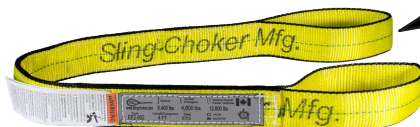
(ON LONGER WORKBRIDGES, A SPREADER BEAM MAY BE REQUIRED.)



LIFTING STRAP EXAMPLE



CHOKER SLING EXAMPLE



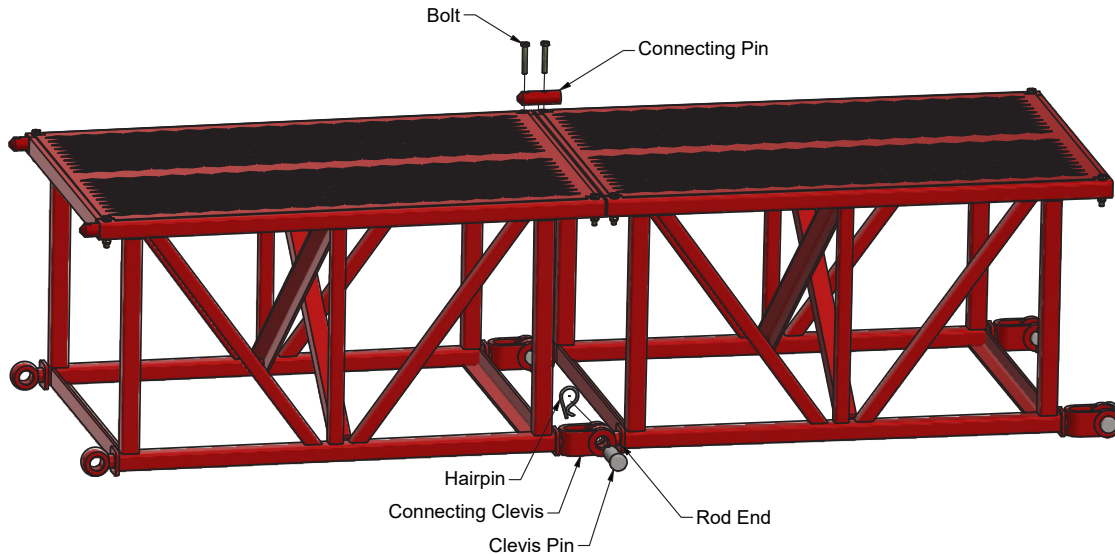
- Make sure the hitch and coupling of the towing vehicle are rated equal to, or greater than the trailer “gross vehicle weight rating.”
- **ALWAYS** inspect the hitch and coupling for wear. Never tow a trailer with defective hitches, couplings, chains, etc.
- Check the tire air pressure on both towing vehicle and trailer. Trailer tires should be inflated to 50 psi cold. Also check the tire tread wear on both vehicles.
- **ALWAYS** make sure the trailer is equipped with a safety chain.
- **ALWAYS** properly attach trailer’s safety chains to towing vehicle.
- **ALWAYS** make sure the vehicle and trailer directional, backup, brake and trailer lights are connected and working properly.
- DOT Requirements include the following:
  - Connect and test electric brake operation.
  - Secure portable power cables in cable tray with tie wraps.
- The maximum speed for highway towing is 55 MPH unless posted otherwise. Recommended off-road towing is not to exceed 15 MPH or less depending on type of terrain.
- Avoid sudden stops and starts. This can cause skidding, or jack-knifing. Smooth, gradual starts and stops will improve towing.
- Avoid sharp turns to prevent rolling.
- Trailer should be adjusted to a level position at all times when towing.
- Raise and lock trailer wheel stand in up position when towing.
- Place chock blocks underneath wheel to prevent rolling while parked.
- Place support blocks underneath the trailer’s bumper to prevent tipping while parked.
- Use the trailer’s swivel jack to adjust the trailer height to a level position while parked.
- Use tie downs to ensure machine does not move during transportation.

# **SECTION 2 ASSEMBLY**



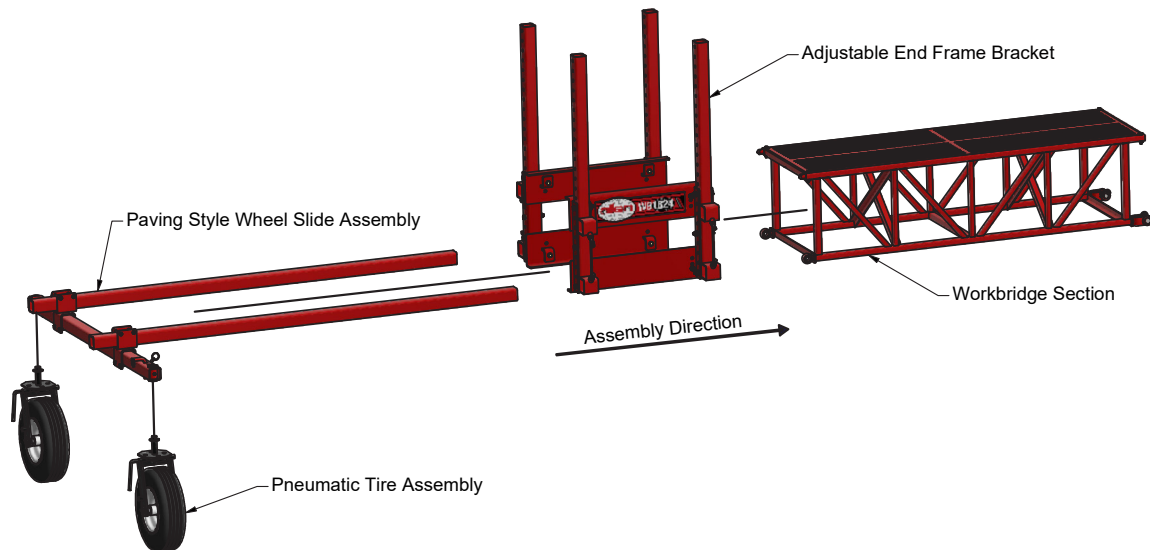
Please follow the instructions below for assembly:

Work Bridge Section Connections:



1. Align WB sections so that the connecting clevis sits outside the rod end.
2. Insert clevis pin through connecting clevis, also passing through the rod end.
3. Insert hairpin into hole on clevis pin, locking the clevis pin in place.
4. Do this for both sides of the WB section.
5. Insert connecting pin into square tubing of WB section.
6. Place bolt through hole provided in mainframe, making sure that bolt also passes through the connecting pin.
7. Place nut on bolt and tighten.
8. Align opposite section so that the bolt hole on the mainframe aligns with the additional hole in the connecting pin.
9. Once aligned, insert bolt, attach nut and tighten.

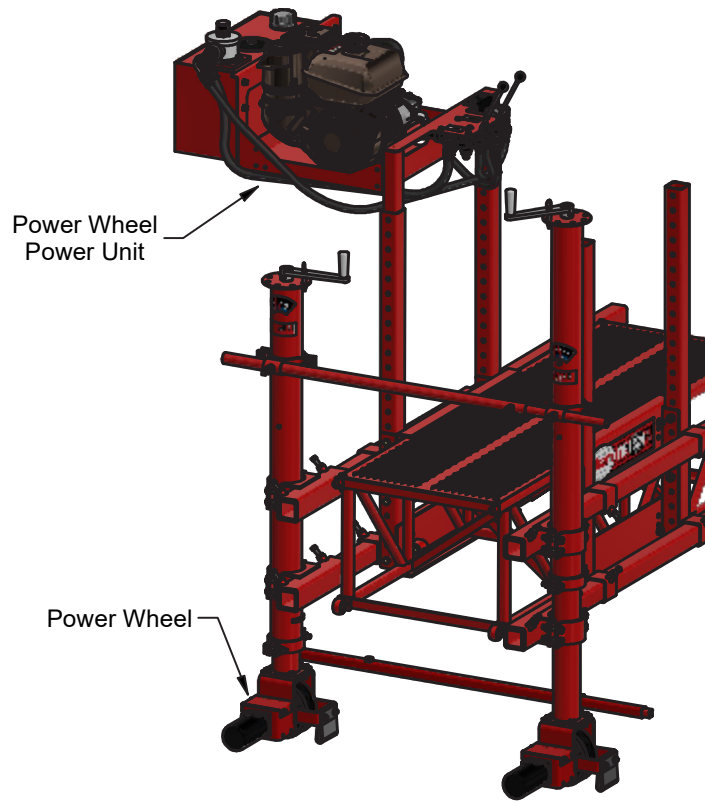
### Installing Pneumatic Wheel Type Bracket:



1. Loosen clip and slide adjustable end frame bracket around workbridge section, and tighten clips back to secure end frame bracket.
2. Loosen square head bolts on end from bracket for wheel slide assembly,
3. Slide wheel slide assembly through end frame bracket and tighten when at desired length.
4. Remove cotter pin and flat washer from wheel assembly.
5. Slide wheel assembly into tubes as shown and preplace washer and cotter pin to secure. Do this for both wheels.

### Installing Power Wheel Option:

1. Place Power Wheel Power Unit on Work Bridge as shown in figure.
2. Attach Power Unit with 1/2"-13 x 3-1/2" bolt (045855 x 4) and Nut (011238 x 4)
3. Remove the original Non-Powered Wheels from the machine and replace with the Power Wheels as shown.
4. Attach the Hydraulic hoses as follows:
  - Drive Wheels - Blue/Red
  - Idle Wheels - Green/White



## Assembly Instructions

### Installing Cable Tension Kit:

1. Loop dead end of cable through the Hook & Eye Turnbuckle.
2. Apply first clip one base width from dead end of wire rope. U-Bolt over dead end. Live end rests in clip saddle. Tighten nuts evenly to recommended torque.
3. Apply second clip as close to loop as possible. U-Bolt over dead end. Turn nuts firmly but **DO NOT TIGHTEN**.
4. Apply all other clips. Space evenly between first two and 6-7 rope diameters apart.
5. **APPLY TENSION** and Tighten all nuts to recommended torque.
6. Check nut torque after rope has been in operation.
7. Mount End Bracket Assembly to frame of workbridge as shown.
8. Center the Cable Stay Assembly Mounts on to low frame as shown.
9. Attach cable to Cable Stays on the unit. Be sure that all bolts and nuts are securely fastened before placing any weight on the Work

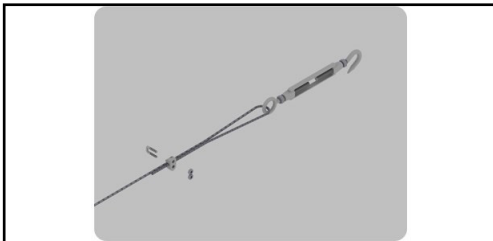
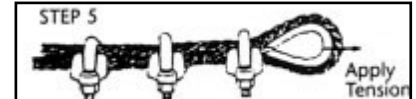
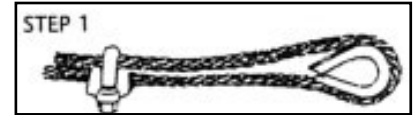
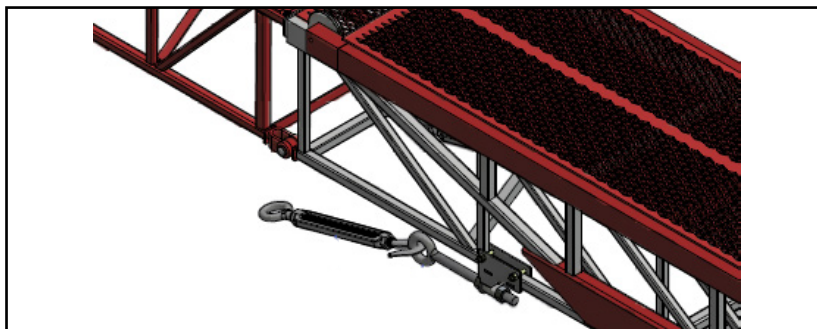
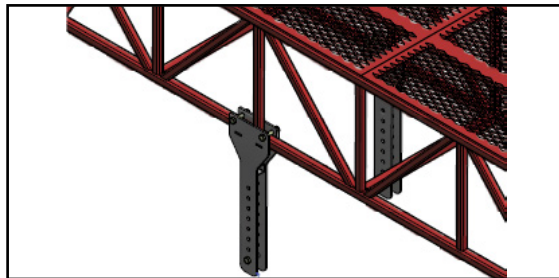


Image of Completed Clamp Assembly



Bridge.

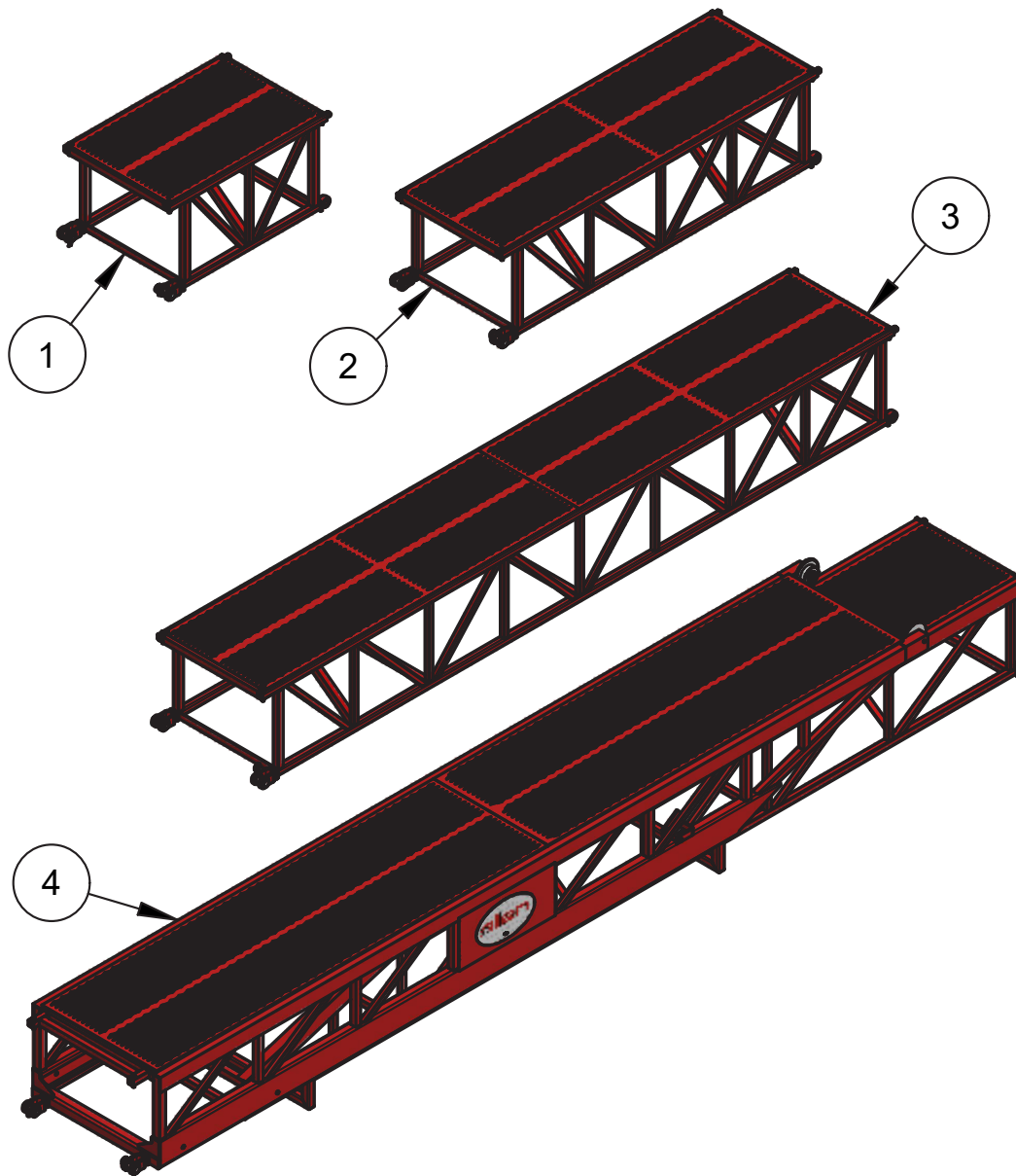




# **SECTION 3 PARTS**

## Mainframe Sizes

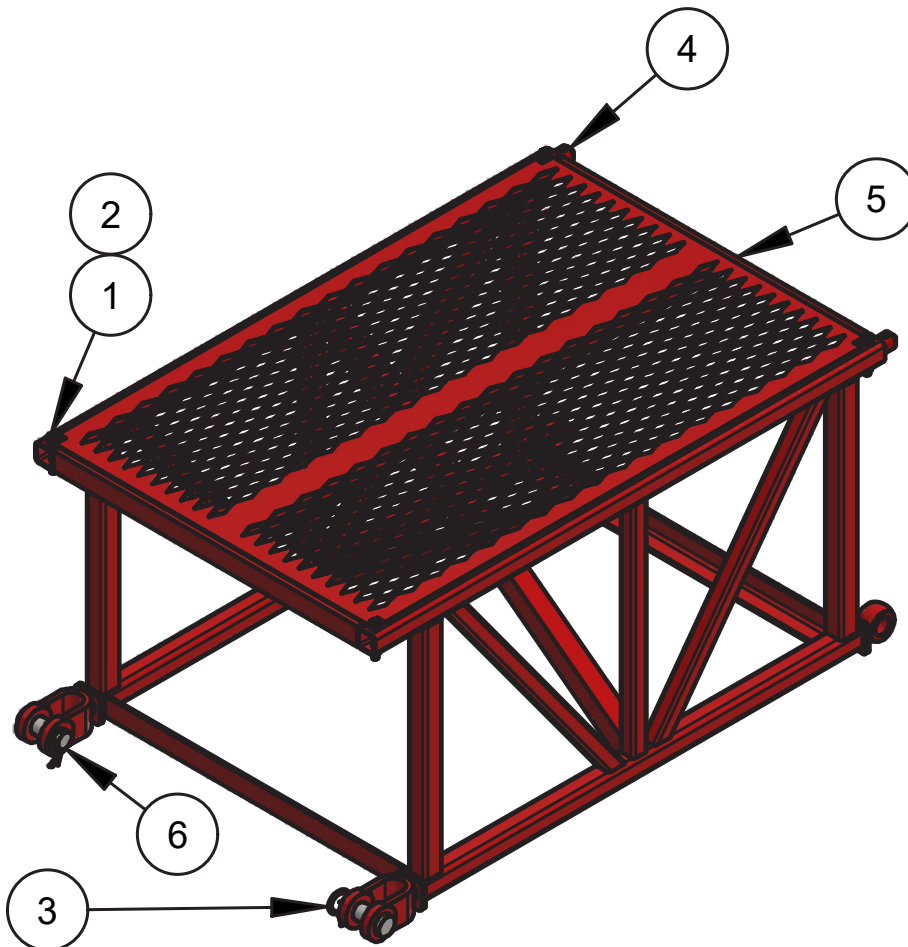
### SECTION 3 PARTS



ITEM	PART #	DESCRIPTION	QTY
1	051679	Assembly, Mainframe, 3 Foot	1
	068639	Assembly, Mainframe, Powered, 3 Foot	
2	051678	Assembly, Mainframe, 6 Foot	1
	068638	Assembly, Mainframe, Powered, 6 Foot	
3	051677	Assembly, Mainframe, 12 Foot	1
	068637	Assembly, Mainframe, Powered, 12 Foot	
4	051680	Assembly, Mainframe, 15-25 Foot Telescoping	1
	068640	Assembly, Mainframe, Powered, 15-25 Foot Telescoping	
5	072960	Assembly, Mainframe, Powered, Telescoping, Opposite End	1
	-	Assembly, Mainframe, Powered, Telescoping, Opposite End, Powered	

## SECTION 3 PARTS

# Mainframe Assembly - 3 Foot



ITEM	PART #	DESCRIPTION	QTY
-	051679	Assembly, Mainframe, 3 Foot	-
	068639	Assembly, Mainframe, Powered, 3 Foot	
1	010024	Fastener, Bolt, HHCS, 5/16"-18 x 2", Grade 8	4
2	012612	Fastener, Nut, Hex, 5/16"-18, Grade 8	4
3	022110	Cotters, Hairpin	2
4	051609	Pin, Connecting	2
5	051622	Weldment, 3' Mainframe	1
6	051877	Pin, Clevis, 1"	2

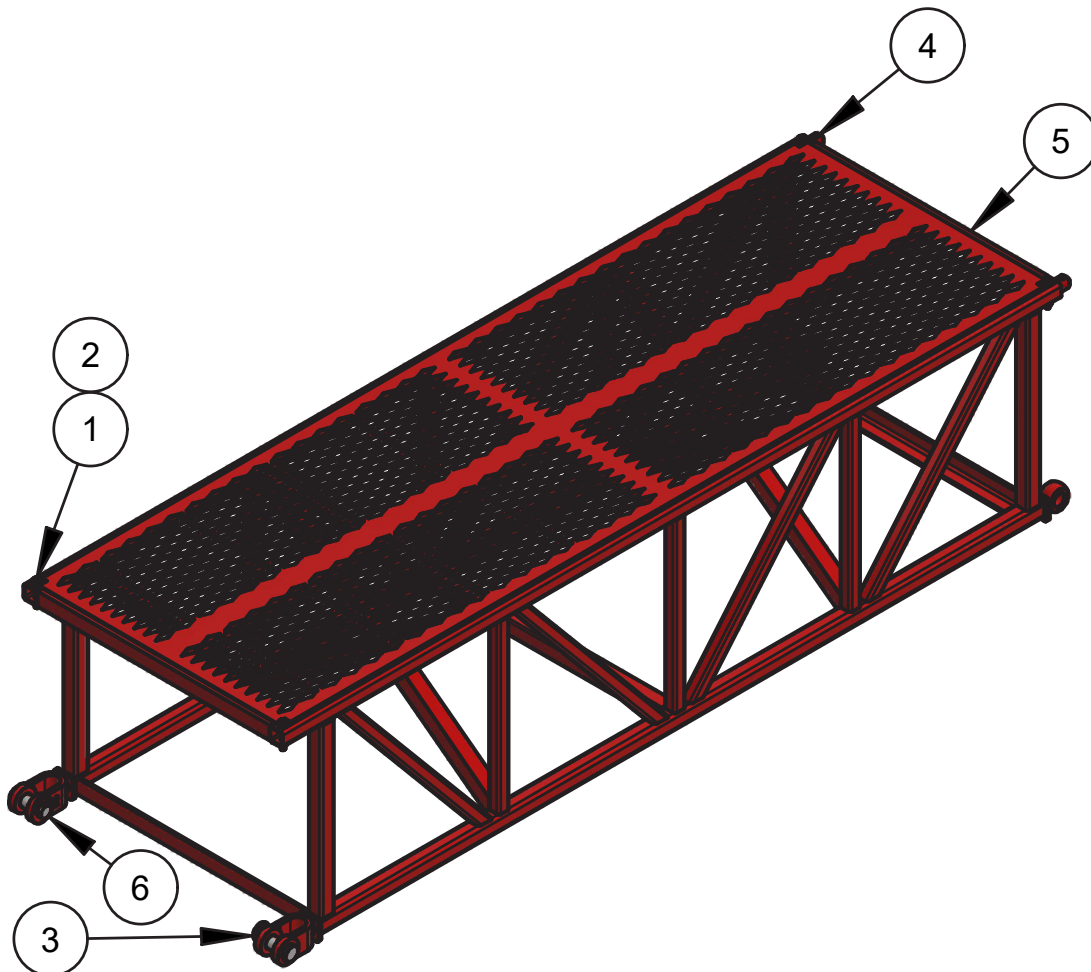
### For Powered Option also Include:

ITEM	PART #	DESCRIPTION	QTY
A	068632	Kit, Hose and Fitting, WB1824, 3' Section	1
B	051077	Ring, Color, Green, Coding	2
C	051078	Ring, Color, White, Coding	2



# Mainframe Assembly - 6 Foot

## SECTION 3 PARTS



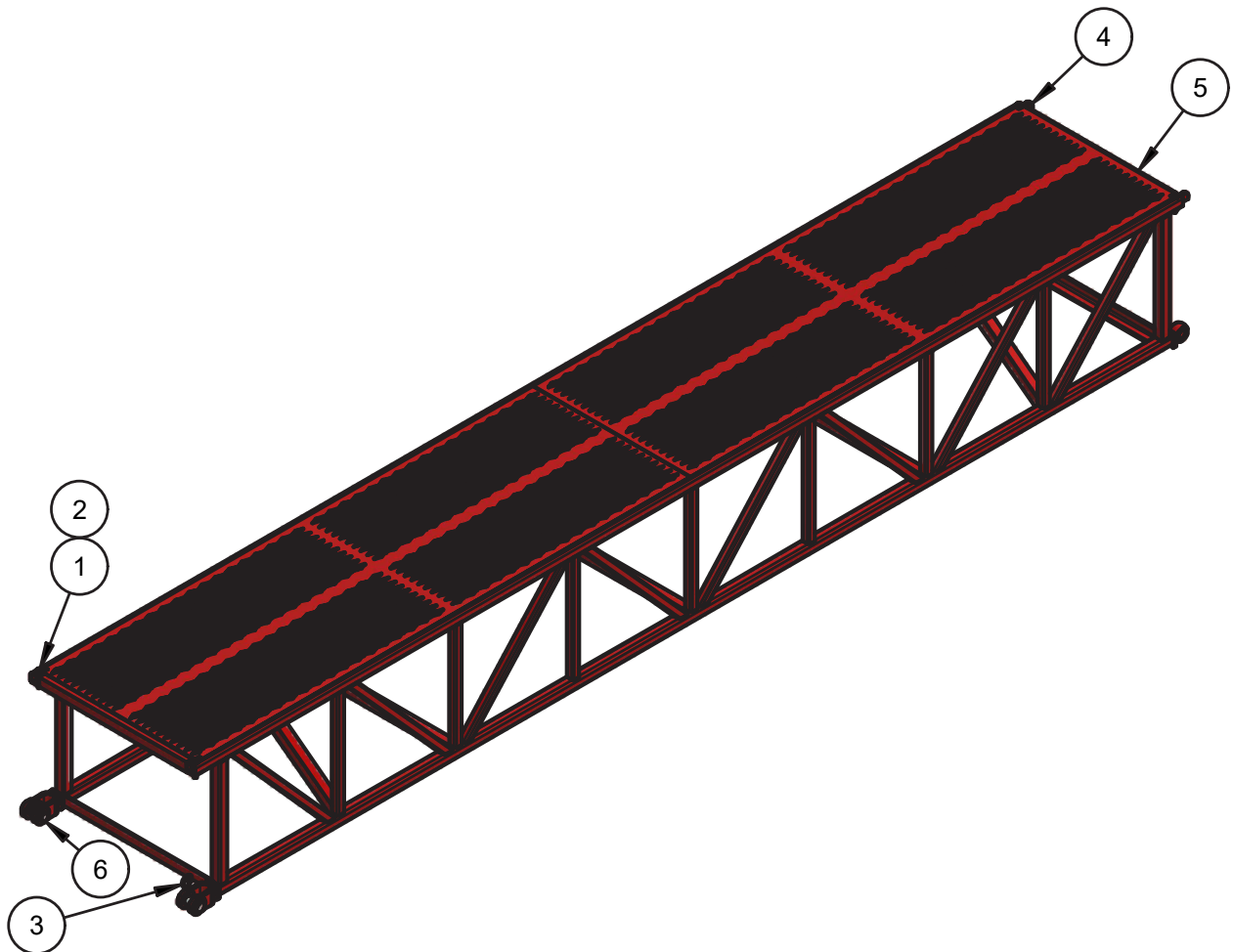
ITEM	PART #	DESCRIPTION	QTY
-	051678	Assembly, Mainframe, 6 Foot	-
	068638	Assembly, Mainframe, Powered, 6 Foot	
1	010024	Fastener, Bolt, HHCS, 5/16"-18 x 2", Grade 8	4
2	012612	Fastener, Nut, Hex, 5/16"-18, Grade 8	4
3	022110	Cotters, Hairpin	2
4	051609	Pin, Connecting	2
5	051622	Weldment, 3' Mainframe	1
6	051877	Pin, Clevis, 1"	2

### For Powered Option also Include:

ITEM	PART #	DESCRIPTION	QTY
A	068631	Kit, Hose and Fitting, WB1824, 6' Section	1
B	051077	Ring, Color, Green, Coding	2
C	051078	Ring, Color, White, Coding	2

# SECTION 3 PARTS

## Mainframe Assembly - 12 Foot

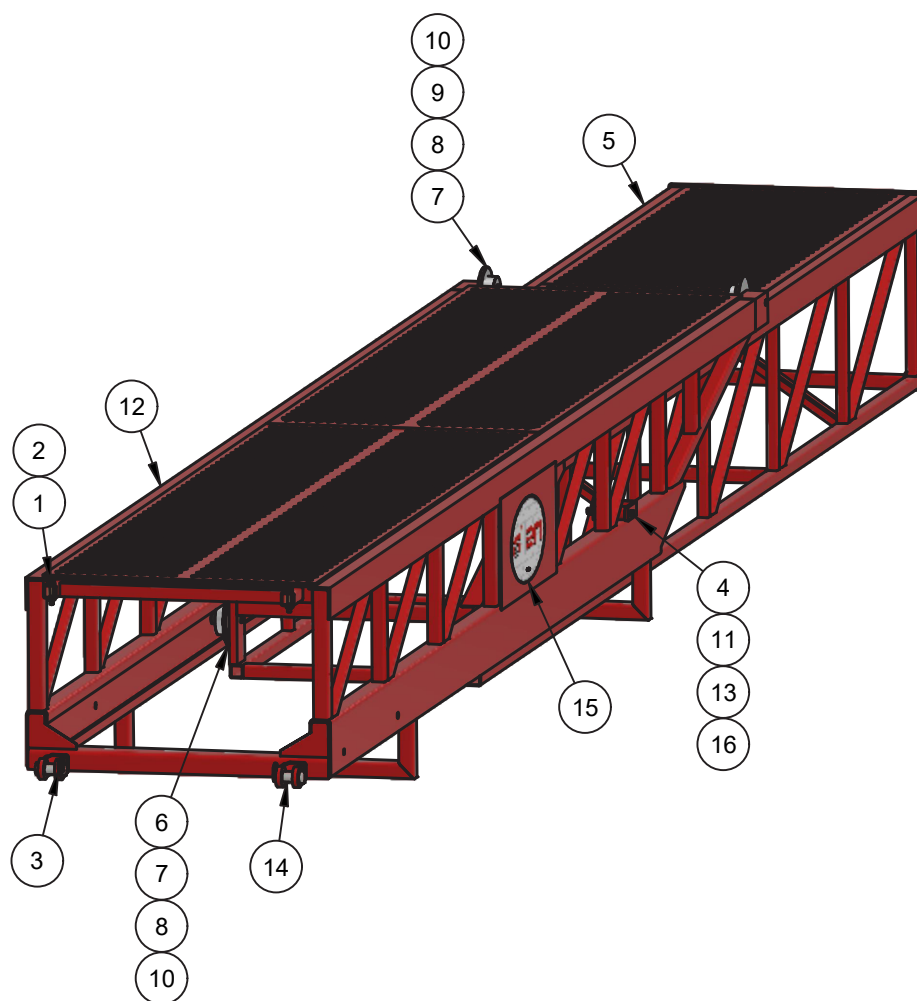


ITEM	PART #	DESCRIPTION	QTY
-	051677	Assembly, Mainframe, 12 Foot	-
	068637	Assembly, Mainframe, Powered, 12 Foot	
1	010024	Fastener, Bolt, HHCS, 5/16"-18 x 2", Grade 8	4
2	012612	Fastener, Nut, Hex, 5/16"-18, Grade 8	4
3	022110	Cotters, Hairpin	2
4	051609	Pin, Connecting	2
5	051622	Weldment, 3' Mainframe	1
6	051877	Pin, Clevis, 1"	2

### For Powered Option also Include:

ITEM	PART #	DESCRIPTION	QTY
A	068630	Kit, Hose and Fitting, WB1824, 12' Section	1
B	051077	Ring, Color, Green, Coding	2
C	051078	Ring, Color, White, Coding	2

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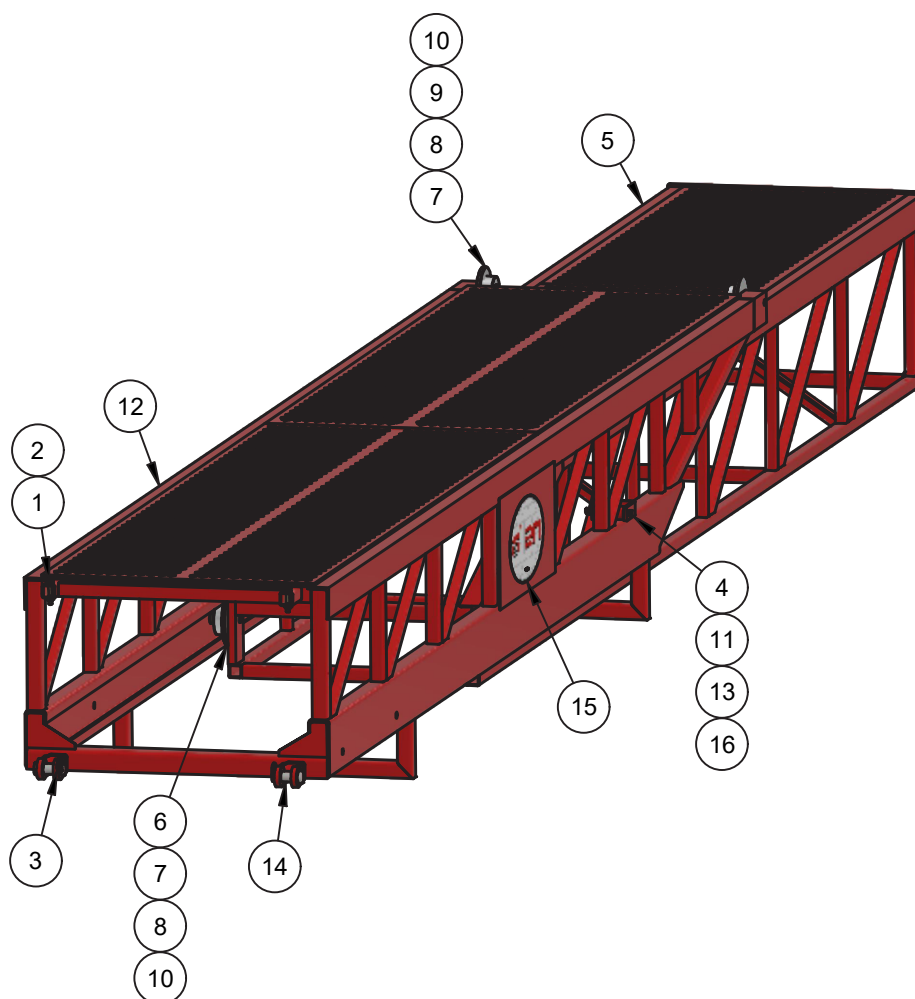
# Mainframe Assembly - Telescoping, 15-25 Foot

## SECTION 3 PARTS

ITEM	PART #	DESCRIPTION	QTY
-	051680	Assembly, Mainframe, Telescoping, 15'-25'	-
	068640	Assembly, Mainframe, Powered, Telescoping, 15'-25'	
1	010024	Fastener, Bolt, HHCS, 5/16"-18 x 2", Grade 8	2
2	012612	Fastener, Nut, Hex, Hylock, 5/16"-18	2
3	022110	Cotters, Hairpin	2
4	051631	Pin, Hair, 5/16"-3/8" Shaft Size	1
5	051776	Weldment, Main Frame, Telescopic, Male	1
6	051777	Wheel, Inner, Bottom, Telescopic Male Assembly	2
7	051778	Fastener, Shoulder Bolt, 3/4" x 1-1/2"	4
8	051782	Washer, Retaining	4
9	051782	Wheel, Outer, Telescopic Female Assembly	2
10	051784	Bearing, Needle, 3/4" ID, 1-1/4" OD, with seals	4
11	051785	Lock, Break, for Telescoping	1
12	051800	Weldment, Main Frame, Telescopic, Female	1
13	051833	Pin, Clevis, 7/16" x 4"	1
14	051877	Pin, Clevis, 1"	2
15	-	-	2
16	065566	Spacer, for Telescopic Assembly	1

### For Powered Option also Include:

ITEM	PART #	DESCRIPTION	QTY
A	068633	Kit, Hose and Fitting, WB1824, Telescoping, 15'-25'	1
B	051077	Ring, Color, Green, Coding	2
C	051078	Ring, Color, White, Coding	2



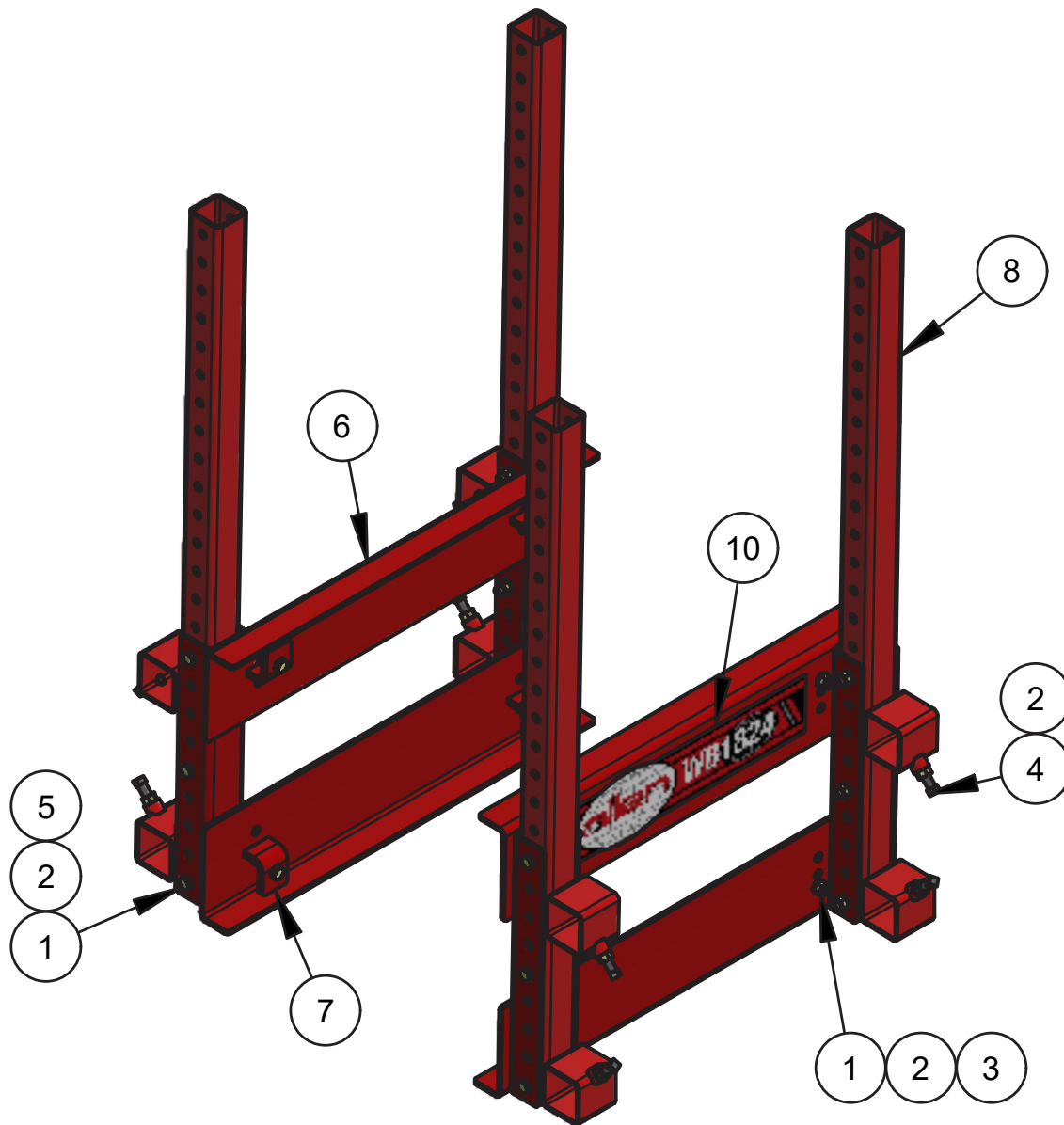
# Mainframe Assembly - Telescoping, Opposite End, 15-25 Foot

## SECTION 3 PARTS

ITEM	PART #	DESCRIPTION	QTY
-	072960	Assembly, Mainframe, Telescoping, Opposite End, 15'-25'	-
1	010024	Fastener, Bolt, HHCS, 5/16"-18 x 2", Grade 8	2
2	012612	Fastener, Nut, Hex, Hylock, 5/16"-18	2
3	022110	Cotters, Hairpin	2
4	051631	Pin, Hair, 5/16"-3/8" Shaft Size	1
5	051777	Wheel, Inner, Bottom, Telescopic Male Assembly	2
6	051778	Fastener, Shoulder Bolt, 3/4" x 1-1/2"	4
7	051782	Washer, Retaining	4
8	051784	Wheel, Outer, Telescopic Female Assembly	2
9	051785	Bearing, Needle, 3/4" ID, 1-1/4" OD, with seals	4
10	051799	Lock, Break, for Telescoping	1
11	051800	Weldment, Main Frame, Telescopic, Female	1
12	051833	Pin, Clevis, 7/16" x 4"	1
13	051877	Pin, Clevis, 1"	2
14	-	-	2
15	065566	Spacer, for Telescopic Assembly	1
16	072961	Weldment, Main Frame, Telescopic, Male	1

## SECTION 3 PARTS

# Adjustable End Frame Bracket

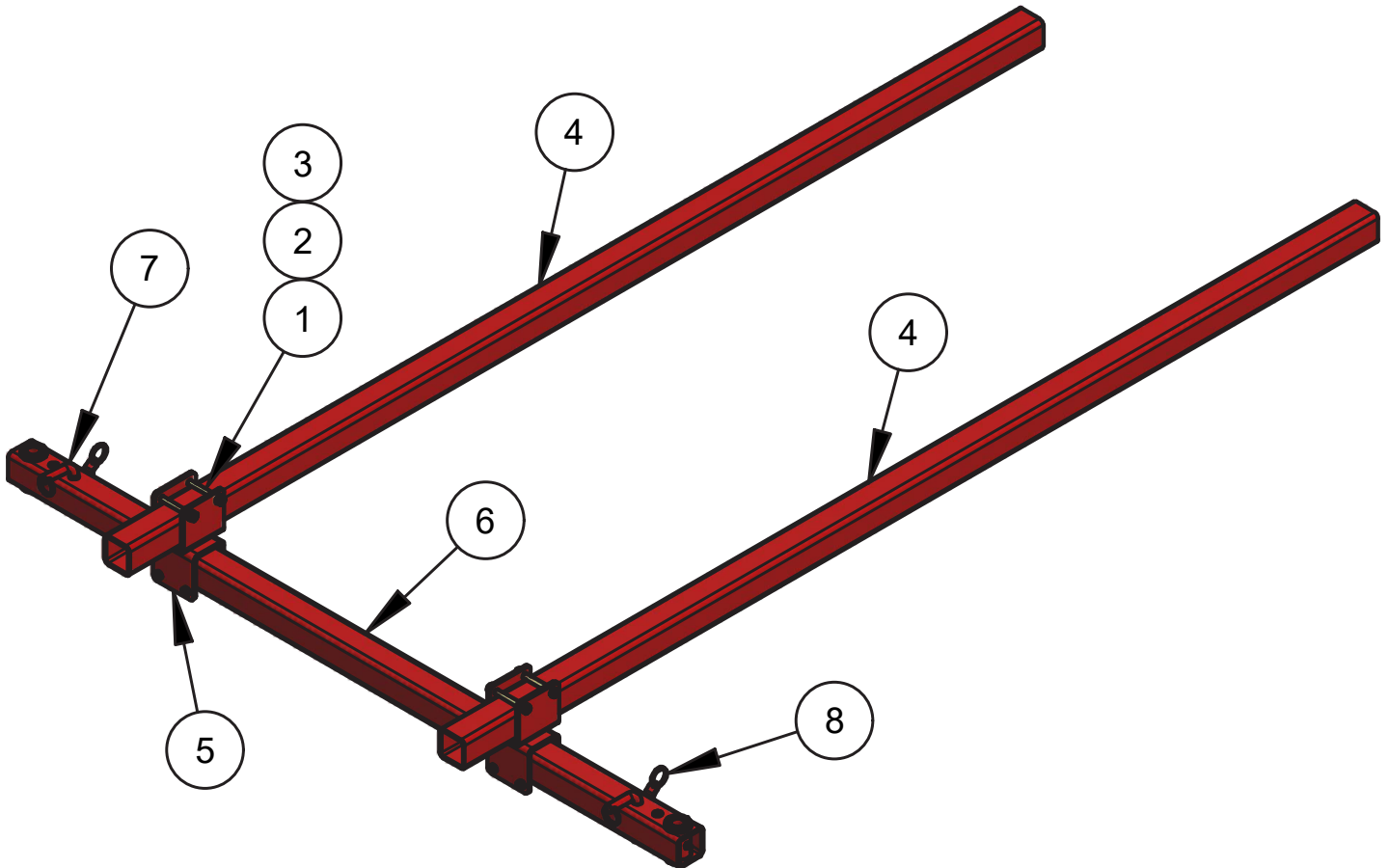


ITEM	PART #	DESCRIPTION	QTY
-	051681	Assembly, Adjustable End Frame Bracket	-
1	010093	Fastener, Washer, Lock, 1/2", Grade 8	20
2	010106	Fastener, Nut, Hex, 1/2"-13, Grade 8	28
3	029708	Fastener, Bolt, HHCS, 1/2-13 x 2-1/2", Grade 8	8
4	050233	Fastener, Bolt, SQSS, 1/2"-13 x 2", Grade 8	8
5	050987	Fastener, Bolt, HHCS, 1/2"-13 x 4", Grade 8	12
6	051634	Clamp, End	2
7	051635	Clip, for End Clamp Mounting	8
8	051638	Tube, Vertical Adjust	4
9	069125	Decal, Model	1



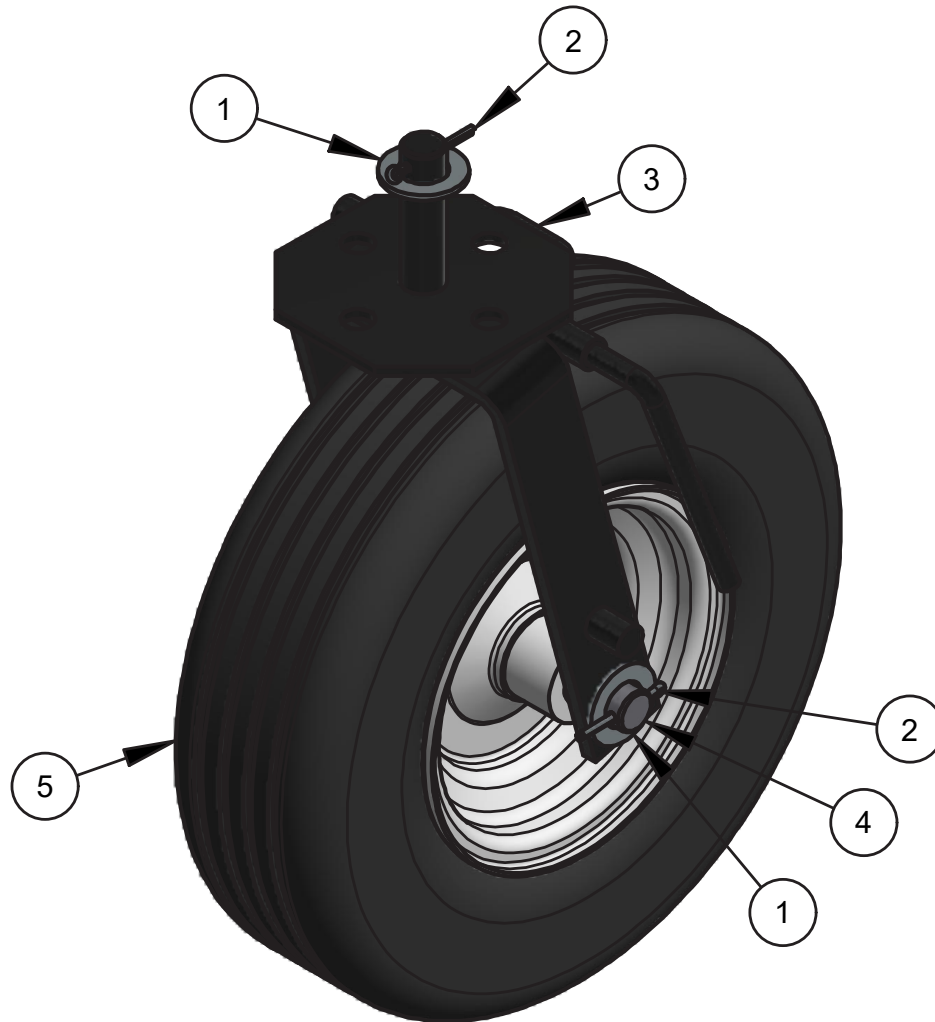
# Paving Style Wheel Slide Assembly

## SECTION 3 PARTS



ITEM	PART #	DESCRIPTION	QTY
-	051682	Assembly, Paving Syle Wheel Slide	-
1	010046	Fastener, Bolt, HHCS, 3/8"-16 x 3-1/2"	8
2	010091	Fastener, Washer, Lock, 3/8"	8
3	010102	Fastener, Nut, Hex, 3/8"-16	8
4	051639	Tube, Horizontal Adjust	2
5	051644	Clamp, Swivel	2
6	051708	Bogie, with Pivot Weldment	1
7	051759	Pin, Fork Lock	2
8	051760	Split Ring, 1.48 O.D. x 1.264 I.D.	4

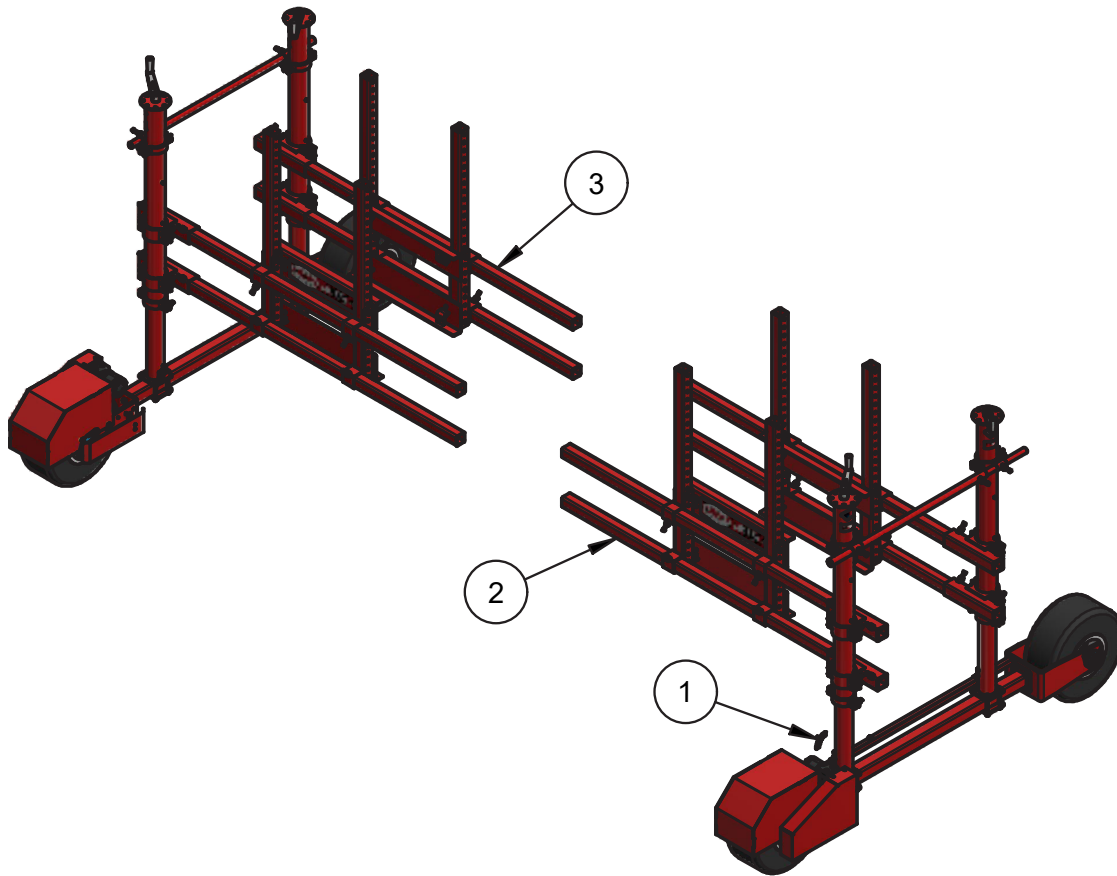
## Pneumatic Tire Assembly



ITEM	PART #	DESCRIPTION	QTY
-	051683	Assembly, Tire, Pneumatic	-
1	010088	Fastener, Washer, Flat, 1"	3
2	010133	Pin, Cotter, Ø3/16" x 2"	3
3	051836	Assembly, Fork	1
5	051837	Shaft, for Fork Assembly	1
6	051838	Assembly, Wheel & Tire	1

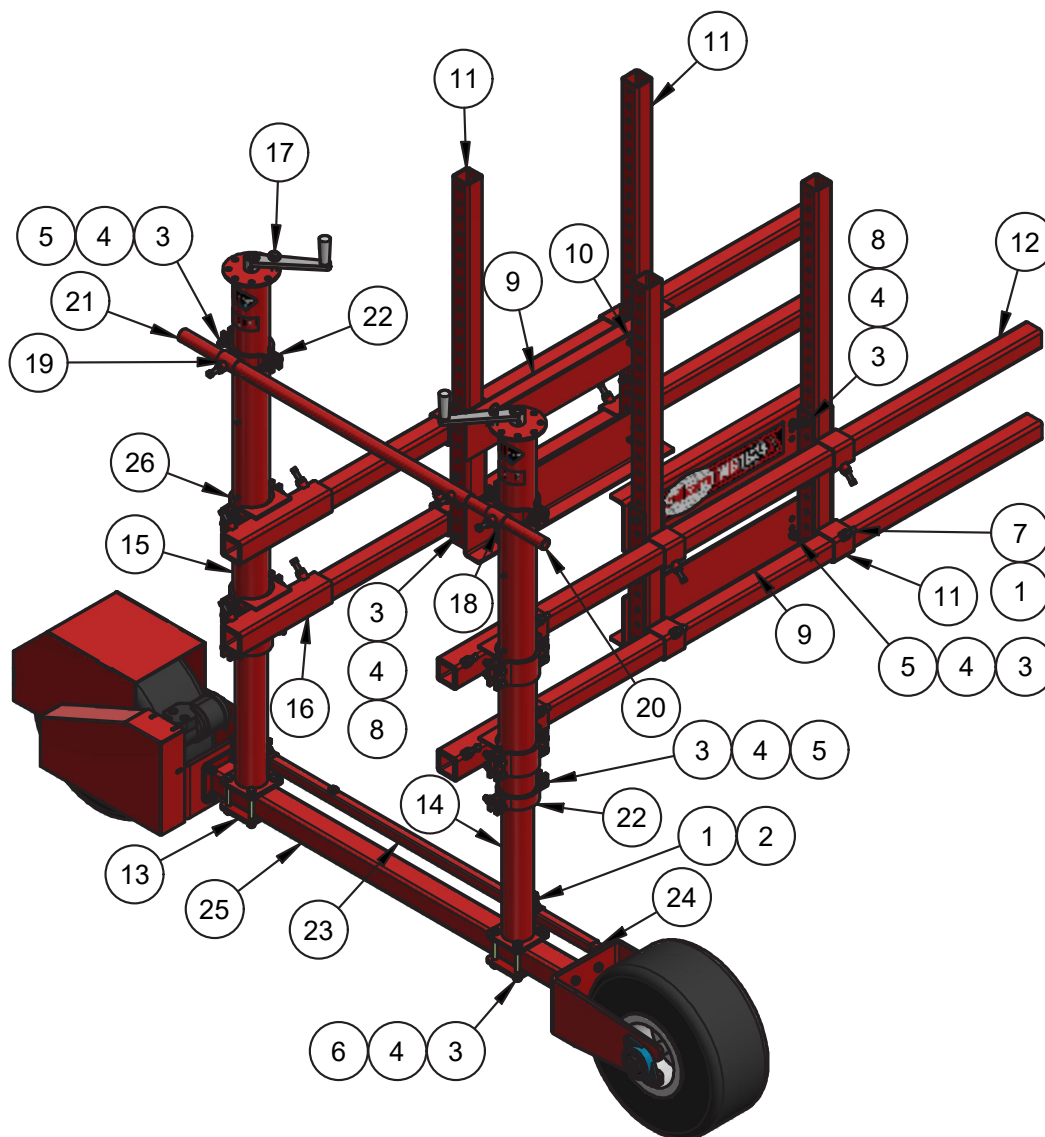
# Powered Pneumatic System Assembly

## SECTION 3 PARTS



ITEM	PART #	DESCRIPTION	QTY
-	068565	Assembly, Bridge Deck Style End Frame with Pneu. Wheel	-
1	051946	Plate, Stop, Flow Control	1
2	068550	Assembly, End Bracket System, Right Hand	1
3	068562	Assembly, End Bracket System, Left Hand	1
5	075362	Kit, Decal, WB1824 Workbridge	1

# **Pneumatic Wheel, Right Hand Section Assembly**

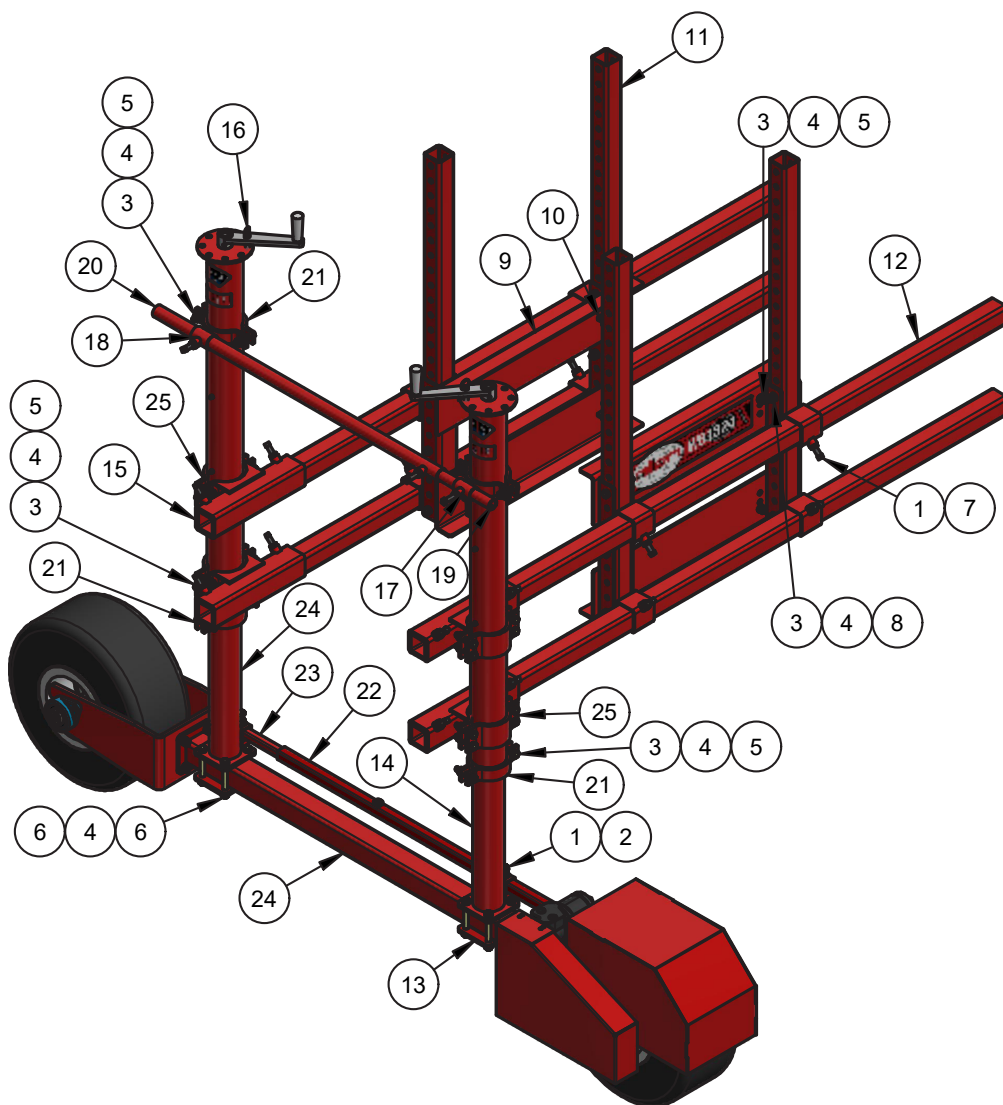


# Pneumatic Wheel, Right Hand Section Assembly

## SECTION 3 PARTS

ITEM	PART #	DESCRIPTION	QTY
-	068550	Assembly, End Bracket System, Right Hand	-
1	010050	Fastener, Nut, Hex, 1/2"-13, Grade 8	21
2	010068	Fastener, Bolt, HHCS, 1/2"-13 x 1-1/4", Grade 8	2
3	010093	Fastener, Washer, Lock, 1/2", Grade 8	52
4	010106	Fastener, Nut, Hex, 1/2"-13, Grade 8	52
5	029708	Fastener, Bolt, HHCS, 1/2"-13 x 2-1/2, Grade 8	32
6	033771	Fastener, Bolt, HHCS, 1/2"-13 x 4-1/2", Grade 8	8
7	050233	Fastener, Screw, SQSS, 1/2"-13 x 2"	19
8	050987	Fastener, Bolt, HHCS, 1/2"-13 x 4", Grade 8	12
9	051634	Clamp, End	2
10	051635	Clip, End Clamp Mounting	8
11	051638	Tube, Vertical Adjust	4
12	051639	Tube, End Bracket, Horizontal Adjust	4
13	051843	Plate, Bottom, for Lower 4" Jack Tube Weldment	2
14	051844	Assembly, Jack, 4", Workbridge	2
15	051848	Reciever, Jack Mount	4
16	051859	Pin, Quick, Release, 1/2" Diameter	2
17	051864	Clamp, Inner Leg Brace	1
18	051865	Clamp, Outter Leg Brace	1
19	051866	Tube, Jack, Inner Slide, Top Support	1
20	051868	Tube, Jack, Outter Slide, Top Support	1
21	052022	Clamp, 4"	4
22	062948	Weldment, Bottom Tube, Female	1
23	062949	Tube, Bottom, Male	1
24	068560	Assembly, Pneumatic Wheel, Right Hand	1
25	071101	Clamp, 4", Double Wide	4
26	-	-	2

# **Pneumatic Wheel, Left Hand Section Assembly**

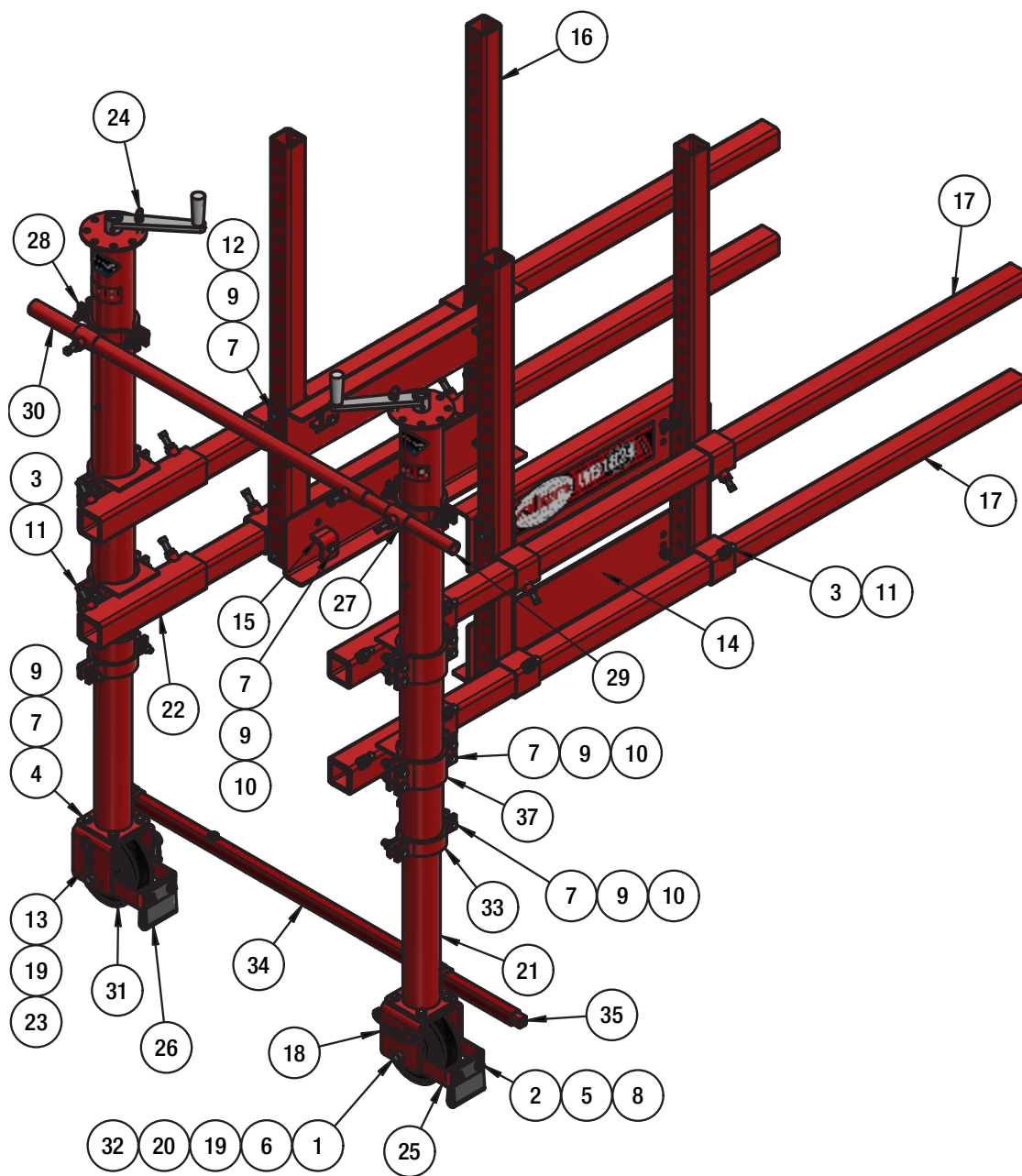


# Pneumatic Wheel, Left Hand Section Assembly

## SECTION 3 PARTS

ITEM	PART #	DESCRIPTION	QTY
-	068552	Assembly, End Bracket System, Left Hand	-
1	010050	Fastener, Nut, Hex, 1/2"-13, Grade 8	21
2	010068	Fastener, Bolt, HHCS, 1/2"-13 x 1-1/4", Grade 8	2
3	010093	Fastener, Washer, Lock, 1/2", Grade 8	52
4	010106	Fastener, Nut, Hex, 1/2"-13, Grade 8	52
5	029708	Fastener, Bolt, HHCS, 1/2"-13 x 2-1/2, Grade 8	32
6	033771	Fastener, Bolt, HHCS, 1/2"-13 x 4-1/2", Grade 8	8
7	050233	Fastener, Screw, SQSS, 1/2"-13 x 2"	19
8	050987	Fastener, Bolt, HHCS, 1/2"-13 x 4", Grade 8	12
9	051634	Clamp, End	2
10	051635	Clip, End Clamp Mounting	8
11	051638	Tube, Vertical Adjust	4
12	051639	Tube, End Bracket, Horizontal Adjust	4
13	051843	Plate, Bottom, for Lower 4" Jack Tube Weldment	2
14	051844	Assembly, Jack, 4", Workbridge	2
15	051848	Reciever, Jack Mount	4
16	051859	Pin, Quick, Release, 1/2" Diameter	2
17	051864	Clamp, Inner Leg Brace	1
18	051865	Clamp, Outter Leg Brace	1
19	051866	Tube,Jack, Inner Slide, Top Support	1
20	051868	Tube, Jack, Outter Slide, Top Support	1
21	052022	Clamp, 4"	4
22	062948	Weldment, Bottom Tube, Female	1
23	062949	Tube, Bottom, Male	1
24	068561	Assembly, Pneumatic Wheel, Left Hand	1
25	071101	Clamp, 4", Double Wide	4

# Bridge Deck End Bracket Assembly



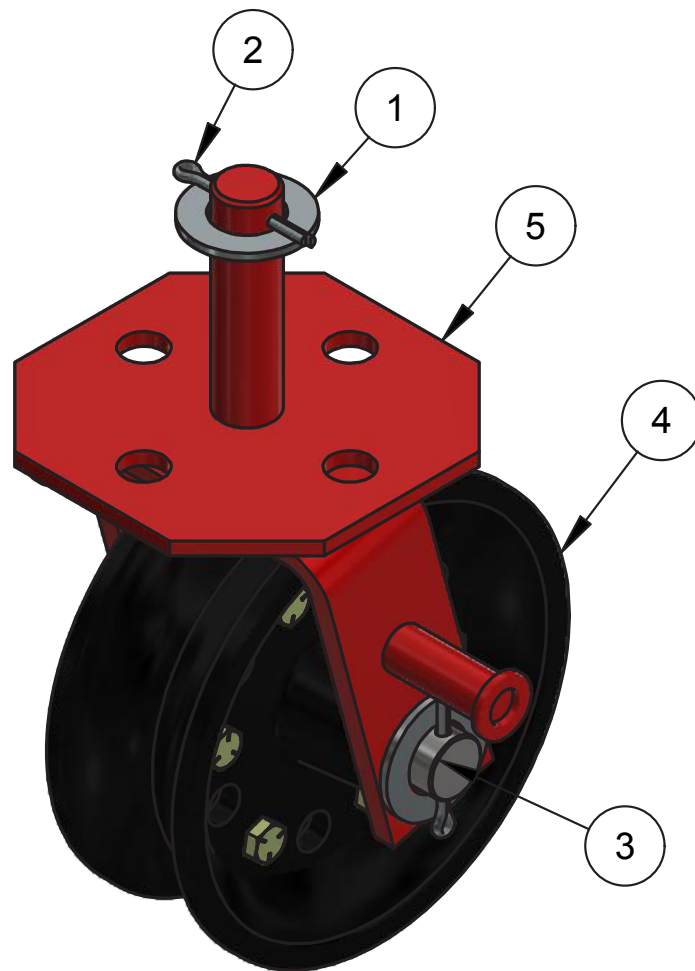


# Bridge Deck End Bracket Assembly

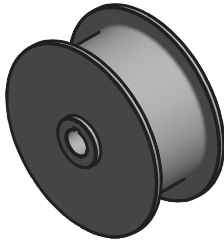
## SECTION 3 PARTS

ITEM	PART #	DESCRIPTION	QTY
-	051685	Assembly, Bridge Deck Ent Bracket with Cupped Wheel	-
	051686	Assembly, Bridge Deck Ent Bracket with Flanged Wheel	
1	010035	Fastener, Bolt, HHCS, 3/8"-16 x 3/4", Grade 8	4
2	010037	Fastener, Bolt, HHCS, 3/8"-16 x 1-1/4", Grade 8	8
3	010050	Fastener, Nut, Hex, 1/2"-13, Grade 8	38
4	010069	Fastener, Bolt, HHCS, 1/2"-13 x 1-1/2", Grade 8	16
5	010083	Fastener, Washer, Flat, 3/8", Grade 8	16
6	010091	Fastener, Washer, Lock, 3/8", Grade 8	4
7	010093	Fastener, Washer, Lock, 1/2", Grade 8	104
8	010102	Fastener, Nut, Hex, 3/8"-16, Grade 8	8
9	010106	Fastener, Nut, Hex, 1/2"-13, Grade 8	104
10	029708	Fastener, Bolt, HHCS, 1/2"-13 x 2-1/2", Grade 8	64
11	050233	Fastener, Screw, SQSS, 1/2"-13 x 2"	38
12	050987	Fastener, Bolt, HHCS, 1/2"-13 x 4", Grade 8	24
13	051629	Pin, Hair, 1"	4
14	051634	Clamp, End	4
15	051635	Clip, End Clamp Mounting	16
16	051638	Tube, Vertical Adjust	8
17	051639	Tube, Horizontal Adjust End Brackets	8
18	051648	Yoke, for Bogie	4
19	051760	Ring, Split, 1.48 O.D. x 1.264 I.D.	8
20	051761	Weldment, Tab, for Split Ring for J-Drop Leg	4
21	051844	Assembly, Jack, 4"	2
22	051848	Mount, Reciever Jack	8
23	051858	Pin, for Yoke Assembly Wheel Stop	4
24	051859	Pin, 1/2" x 1.8", Quick Release	4
25	051860	Bracket, Yoke Assembly Rail Wiper	4
26	051861	Assembly, Rubber Scraper Fork	4
27	051864	Clamp, Inner Leg Brace	2
28	051865	Clamp, Outer Leg Brace	2
29	051866	Support, Inner Slide Tube Jack	2
30	051868	Support, Outer Tube Slide	2
31	052001	Assembly, Wheel, Cup, Idle, 2", Cast	4
	023888	Assembly, Wheel, Double Flange, 6"	
32	052008	Axle, for Pipe Wheel	4
33	052022	Clamp, 4"	8
34	062948	Weldment, Bottom Tube, Female	2
35	062949	Weldment, Bottom Tube, Male	2
36	075362	Kit, Decal, WB1824	2
37	071101	Clamp, Double Wide, 4"	4

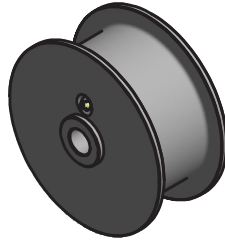
## Cup Wheel Tire Assembly



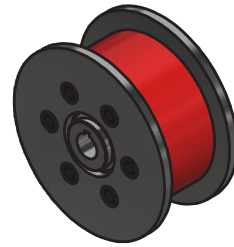
ITEM	PART #	DESCRIPTION	QTY
-	221124	Assembly, Wheel, Cupped, 6"	-
1	010088	Fastener, Washer, Flat, 1"	3
2	010133	Pin, Cotter, Ø3/16" x 2"	3
3	010157	Axle	1
4	052001	Assembly, Steel Cup Wheel, 6"	1
5	221128	Assembly, Fork	1



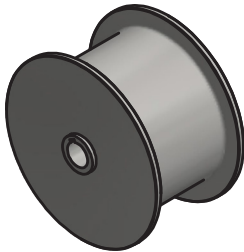
Part #: 052745  
Steel, Double Flanged  
Drive Wheel for 2" Forms



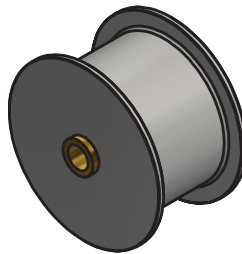
Part #: 052744  
Steel, Double Flanged  
Idle Wheel for 2" Forms



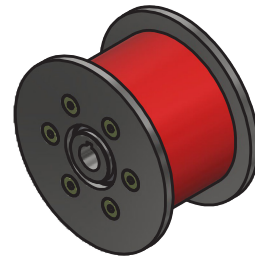
Part #: 065015  
Poly Coated, Double Flanged  
Drive Wheel for 2" Forms



Part #: 042562  
Steel, Double Flanged  
Drive Wheel for 3" Forms



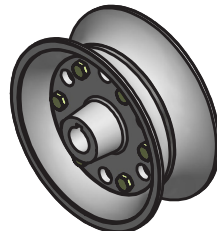
Part #: 042561  
Steel, Double Flanged  
Idle Wheel for 3" Forms



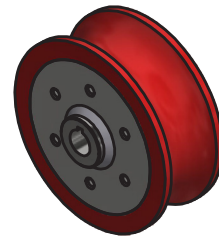
Part #: 065025  
Poly Coated, Double Flanged  
Drive Wheel for 3" Forms



Part #: 052004  
Steel, 6" Cup Drive Wheel  
for 2", SCH 80 Pipe Rail



Part #: 062440  
Steel, 6" Cup Drive Wheel  
for 2.875", SCH 80 Pipe Rail



Part #: 067440  
Polyurethane Coated  
6" Drive Cup Wheel

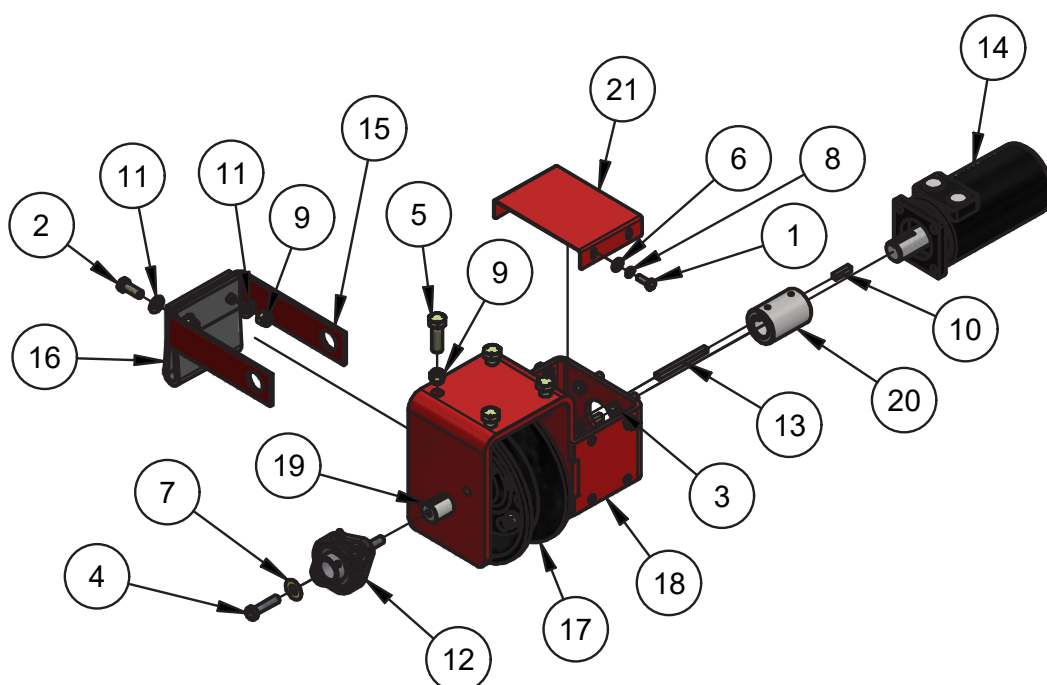


Part #: 052001  
Steel, 2" Cup Idle Wheel  
for 2", SCH 80 Pipe Rail



Part #: 023888  
Steel, Double Flanged  
Wheel for 2" Forms

## Power Wheel Conversion Kit

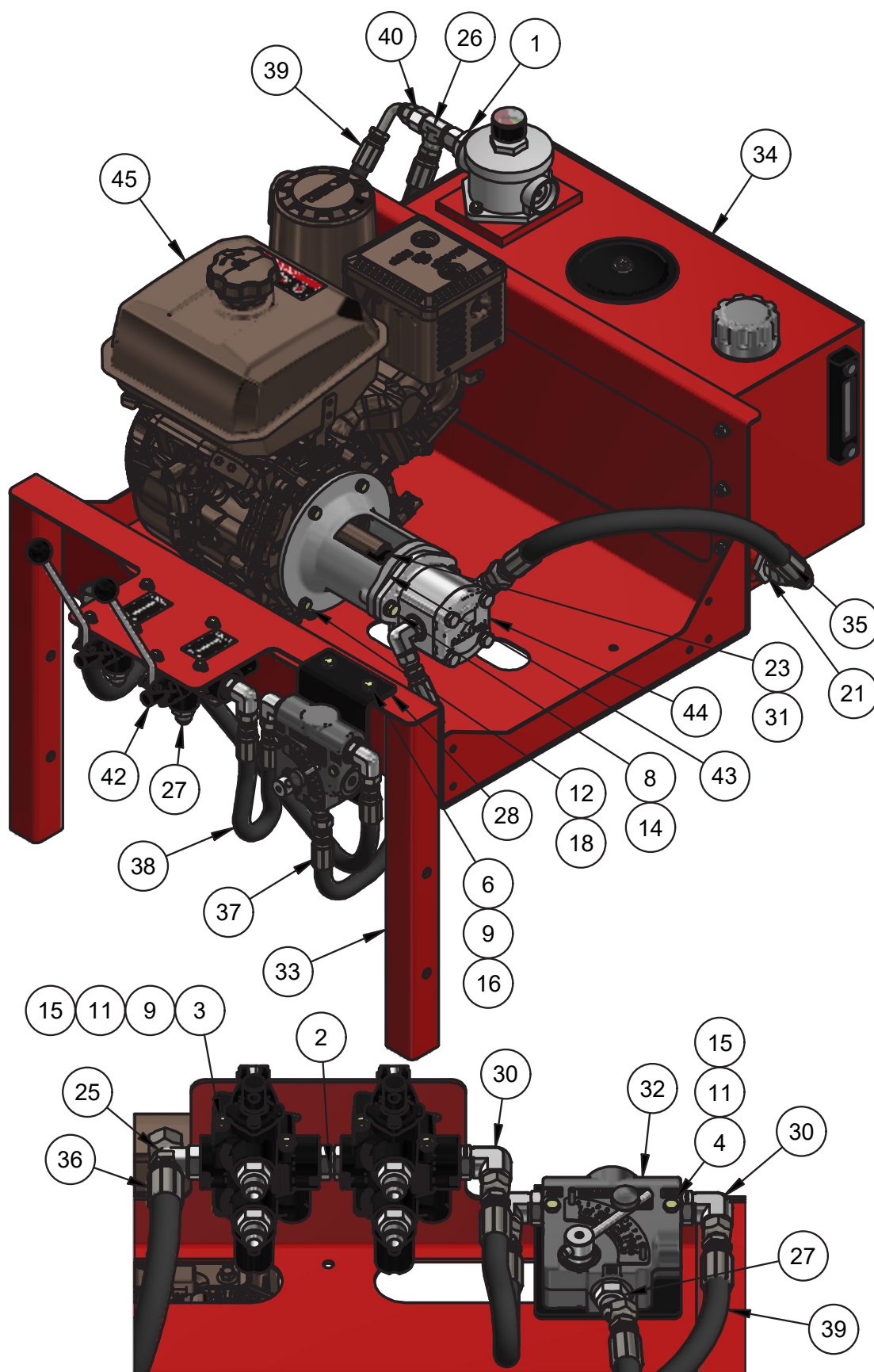


# Power Wheel Conversion Kit

## SECTION 3 PARTS

ITEM	PART #	DESCRIPTION	QTY
-	067525	Assembly, Power Wheel Conversion Kit	-
1	010002	Fastener, Bolt, HHCS, 1/4"-20 x 3/4", Grade 8	4
2	010036	Fastener, Bolt, HHCS, 3/8"-16 x 1", Grade 8	2
3	010037	Fastener, Bolt, HHCS, 3/8"-16 x 1-1/4", Grade 8	4
4	010038	Fastener, Bolt, HHCS, 3/8"-16 x 1-1/2", Grade 8	4
5	010069	Fastener, Bolt, HHCS, 1/2"-13 x 1-1/2", Grade 8	4
6	010081	Fastener, Washer, Flat, 1/4", Grade 8	4
7	010083	Fastener, Washer, Flat, 3/8", Grade 8	4
8	010089	Fastener, Washer, Lock, 1/4", Grade 8	4
9	010464	Fastener, Nut, Nylock, 3/8"-16, Grade 8	10
10	011791	Key, 1/4" Square x 1" Long	1
11	017751	Fastener, Washer, Flat, 3/8", Grade 8	4
12	019334	Bearing, Ø1" I.D. , Flange	2
13	026992	Key, 1/4" x 3-1/8"	1
14	050468	Motor, Hydraulic	1
15	051860	Bracket, Rail Wiper for Yoke Assembly	1
16	051861	Scraper, Rubber, for Yoke Assembly	1
17	052004	Wheel, Cup, 6"	1
18	052614	Weldment, Power Wheel Yoke	1
19	052615	Shaft, Drive, for Power Drive Wheel	1
20	052616	Coupling, Drive Connection for Power Wheel	1
21	052629	Cover, for Power Cup Wheel	1
22	052639	Assembly, Power Wheel, Power Unit	1
23	069128	Decal Kit - Powered Work Bridge Option (not shown)	1
24	051076	Ring, Color - Blue, Drive Wheel (Not Shown)	4
25	051079	Ring, Color - Red, Drive Wheel (Not Shown)	4
26	051077	Ring, Color - Green, Idle Wheel (Not Shown)	4
27	051078	Ring, Color - White, Idle Wheel (Not Shown)	4
28	011238	Fastener, Nut, Hex, Nylock, 1/2"-13, Grade 8 (Not Shown)	4
29	045855	Fastener, Bolt, HHCS, 1/2"-13 x 3-1/2", Grade 8 (Not Shown)	4

Hydraulic Hoses			
ITEM	PART #	DESCRIPTION	QTY
1	052764	Hose, Hydraulic, #12, Tank Suction to Pump Section	1
2	052765	Hose, Hydraulic, #10, Out of Valve to Return Filter	1
3	052766	Hose, Hydraulic, #8, Pump to In of P/C	1
4	052767	Hose, Hydraulic, #8, F/C CF to In of Right Hand Valve	1
5	052768	Hose, Hydraulic, #8, EX to Return Filter Tee	1
6	052769	Hose, Hydraulic, #8, Left Hand Motor A Port to Left Hand Valve A Port	1
7	052770	Hose, Hydraulic, #8, Left Hand Motor B Port to Left Hand Valve B Port	1
8	052771	Hose, Hydraulic, #8, Right Hand Valve A Port to End of Frame	1
9	052772	Hose, Hydraulic, #8, Right Hand Valve B Port to End of Frame	1
10	052773	Hose, Hydraulic, #8, Right Hand Valve Operator	2





# WB Power Wheel, Power Unit

## SECTION 3 PARTS

ITEM	PART #	DESCRIPTION	QTY
-	052639	Assembly, WB Power Wheel, Power Unit	-
1	2404-10-16	Fitting, Adapter, Straight, 5/8" JIC Male x 1" NPTF Male	1
2	6407-10-10	Fitting, Swivel Union, #10 SAE/ORB Male	1
3	010005	Fastener, Bolt, HHCS, 1/4"-20 x 1-1/2", Grade 8	6
4	010009	Fastener, Bolt, HHCS, 1/4"-20 x 2-1/2", Grade 8	2
5	010035	Fastener, Bolt, HHCS< 3/8"-16 x 3/4", Grade 8	8
6	010036	Fastener, Bolt, HHCS, 3/8"-16 x 3/4", Grade 8	2
7	010039	Fastener, Bolt, HHCS, 3/8"-16 x 1-3/4", Grade 8	4
8	010054	Fastener, Bolt, HHCS, 7/16"-14 x 1-1/2", Grade 8	2
9	010081	Fastener, Washer, Flat, 1/4", Grade 8	6
10	010082	Fastener, Washer, Flat, 5/16", Grade 8	8
11	010089	Fastener, Washer, Lock, 1/4", Grade 8	8
12	010090	Fastener, Washer, Lock, 5/16" Grade 8	4
13	010091	Fastener, Washer, Lock, 3/8", Grade 8	6
14	010092	Fastener, Washer, Lock, 7/16" Grade 8	2
15	010098	Fastener, Nut, Hex, 1/4"-20, Grade 8	8
16	010102	Fastener, Nut, Hex, 3/8"-16, Grade 8	6
17	011791	Key, Machine, 1/4" Square x 1" Length	1
18	012974	Fastener, Bolt, HHCS, 5/16"-24 x 3/4", Grade 8	4
19	017751	Fastener, Washer, Flat, 3/8", Grade 8	4
20	020514	Fastener, Nut, Stover, 3/8"-16, Grade 8	8
21	045138	Fitting, 1-1/16"-12 Flare Male x 3/4"-14 NPTF Male, Straight	1
22	040060	Coupler, Jaw	1
23	040061	Insert, for Jaw Coupler	1
24	045139	Fitting, Elbow, 1-1/16-12 Flare O-Ring Male x 7/8"-14 ORB Male	1
25	045927	Fitting, Elbow, 7/8"-14 Flare O-Ring Male x 7/8"-14 ORB Male	1
26	045937	Fitting, #10 MJIC x #10 FJIC Swivel x #10 MJIC, Tee	1
27	046354	Fitting, Straight, 3/4"-16 Flare O-Ring Male x 7/8"-14 ORB Male	5
28	048203	Bracket, Flow Control Mount	1
29	049157	Fitting, Plug, 1/2" Male,	1
30	050153	Fitting, Elbow, 3/4"-16 Flare O-Ring Male x 7/8"-14 Boss Male	4
31	051580	Coupler, Jaw	1
32	051984	Valve, Flow Control with Relief	1
33	052636	Stand, Power Unit for Power Cup	1
34	052638	Assembly, Hydraulic Tank, for Power Wheel Unit	1
35	052764	Hose, Hydraulic, Tank Suction to Pump Section	1
36	052765	Hose, Hydraulic, Valve to Return Filter	1
37	052766	Hose, Hydraulic, Pump to In of F/C	1
38	052767	Hose, Hydraulic, F/C to In of Right Hand Valve	1
39	052768	Hose, Hydraulic, EX to Return Filter Tee	1
40	052784	Fitting, Reducing Adapter	1
41	-	-	1
42	057836	Valve, Hydraulic	2
43	057841	Pump, Engine Adaptor	1
44	057843	Pump, Gear	1
45	070069	Engine, Kohler CH395, 9.5 HP, 16.9cc, Gas	1

## Decals, WB1824





## Decals, WB1824 Parts List

ITEM	PART #	DESCRIPTION	QTY
-	075362	Kit, Decals WB1824	-
1	069167	Leg Crank Information	4
2	073902	Warning Max Length Not To Exceed 95'	4
3	075277	Made In America	1
4	075373	AEC Brand Logo Mark 8" x 8"	4
5	075382	Allen Concrete Pavers WB1224 19" x 5"	4
6	075430	AEC Info (Not Shown)	4
7	075190	QR Code Equipment Information (Not Shown)	2

### **Machine Cleaning Procedure**

When cleaning the machine, please adhere to the following information to ensure proper cleaning and to keep the machine in the best condition possible.

### **Power Washing Procedure:**

#### **NOTICE**

- Ensure that the water pressure is below 2000 PSI (14 MPa)
- Always keep the water temperature below 180°F (80°C)
- Use a spray nozzle with at minimum 40° wide spray angle
- Keep the nozzle at least 1 foot (300mm) away from the machine
- Keep a perpendicular angle (90°) when cleaning over a decal.
  - Holding nozzle of a pressure washer at an angle different from 90° may lift the decal from the machine.
- Recommended using a safe cement dissolver, **BACK-SET** or similar, to remove hardened concrete.
- It is **NOT** recommended to use chemicals such as:
  - Muriatic Acid
  - Hydrochloric Acid
  - Hydrofluoric Acid
  - Sulfuric Acid
  - Phosphoric Acid
- To prevent build-up of concrete on the machine, use **BODY GUARD** or similar protection wax.

### **Filter Cleaning Procedure:**

- Remove air filters and blow out with compressed air, **NOT** to exceed 80 PSI.

## Revision Detail

MANUAL REVISION DETAIL			
REVISION #	REVISION DATE	REVISION REFERENCE #	REVISION BY
-	07/20	Initial Release	MW
A	01/22	Updated Covers	MK
B	02/22	Updated Decal Kit	MK



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