

Mid-Rise Scissor Lift Installation and Operation Manual

Manual P/N 5900030 — Manual Revision B2 — March 2019

Models: • MDS-6EXT • MDS-6EXTF • MDS-6LP • MDS-6LPF



Model MDS-6EXT shown.

Designed and engineered by BendPak Inc. in Southern California, USA. Made in China.

 **DANGER**

Read the *entire contents* of this manual *before* using this product. Failure to follow the instructions and safety precautions in this manual can result in serious injury or death. Make sure all other operators also read this manual. Keep the manual near the product for future reference. By proceeding with setup and operation, you agree that you fully understand the contents of this manual.

Manual. MDS-6 Series Mid-Rise Scissor Lifts, *Installation and Operation Manual*, Manual Part Number 5900030, Manual Revision B2, Released March 2019.

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Limitations. Every effort has been made to ensure complete and accurate instructions are included in this manual. However, product updates, revisions, and/or changes may have occurred since this manual was published. BendPak reserves the right to change any information in this manual without incurring any obligation for equipment previously or subsequently sold. BendPak is not responsible for typographical errors in this manual. Feel free to contact us at any time to get the latest information about any product: bendpak.com.

Warranty. The BendPak warranty is more than a commitment to you: it is also a commitment to the value of your new product. Contact your nearest BendPak dealer or visit www.bendpak.com/support/warranty for full warranty details. Go to bendpak.com/support/register-your-product/ and fill out the online form to register your product (be sure to click **Submit**).

Safety. Your new product was designed and manufactured with safety in mind. Your safety also depends on proper training and thoughtful operation. Do not set up, operate, maintain, or repair the unit without reading and understanding this manual and the labels on the unit; **do not use your Lift unless you can do so safely!**

Owner Responsibility. In order to ensure operator safety and maintain your product properly, it is the responsibility of the product owner to read and follow these instructions:

- Follow all setup, operation, and maintenance instructions.
- Make sure product setup conforms to all applicable local, state, and federal codes, rules, and regulations, such as state and federal OSHA regulations and electrical codes.
- Read and follow all safety instructions. Keep them readily available for operators.
- Make sure all operators are properly trained, know how to safely operate the unit, and are properly supervised.
- Do not operate the product until you are certain that all parts are in place and operating correctly.
- Carefully inspect the product on a regular basis and perform all maintenance as required.
- Service and maintain the unit only with approved replacement parts.
- Keep all instructions permanently with the product and make sure all labels are clean and visible.
- **Only use the Lift if it can be used safely!**

Unit Information. Enter the Model Number, Serial Number, and the Date of Manufacture from the label on your unit. This information is required for part or warranty issues.

Model: _____

Serial: _____

Date of Manufacture: _____

BP BendPak Santa Paula, CA USA www.bendpak.com	
MODEL NUMBER	
DESCRIPTION	
LIFT CAPACITY	DATE OF MFG.
VOLTAGE	SERIAL NUMBER
<input type="checkbox"/> 110-240V, 50-60 Hz, 1 Ph	
<input type="checkbox"/> 208-240V, 50-60 Hz, 1 Ph	
<input type="checkbox"/> 380-415V, 50-60 Hz, 3 Ph	
<input type="checkbox"/> 208-440V, 50-60 Hz, 3 Ph	
	UPC
DANGER! Disconnect Power Before Servicing	
WARRANTY VOID IF DATA PLATE IS REMOVED PN 5905951	
EAC	

Table of Contents

Introduction	3	Operation	34
Shipping Information	4	Maintenance	37
Safety Considerations	4	Troubleshooting	37
FAQ	5	Wiring Diagram	38
Components	6	Labels	39
Specifications	7	Parts Diagrams	42
Installation Checklist	11	ALI Store	66
Installation	12	Maintenance Log	67

Introduction

This manual describes the following mid-rise Scissor Lift models:

- **MDS-6EXT**: Mid-Rise Scissor Lift with extended length Platforms that can raise up to 6,000 lbs (2,722 kg). ALI certified.
- **MDS-6EXT~~F~~**: The flush-mount version of the MDS-6EXT. ALI certified.
- **MDS-6LP**: Mid-Rise Scissor Lift with normal length Platforms but a higher rise that can raise up to 6,000 lbs (2,722 kg). ALI certified.
- **MDS-6LP~~F~~**: The flush-mount version of the MDS-6LP. ALI certified.

More information about the full line of BendPak products is available at bendpak.com.

This manual is mandatory reading for users of the MDS-6EXT/F and MDS-6LP/F models, including anyone who sets up, operates, maintains, or repairs them.

 **DANGER** Be very careful when setting up, operating, maintaining, or repairing this equipment; failure to do so could result in property damage, product damage, injury, or (in very rare cases) death. Make sure only authorized personnel operate this equipment. All repairs must be performed by an authorized technician. Do not make modifications to the unit; this voids the warranty and increases the chances of injury or property damage. Make sure to read and follow the instructions on the labels on the unit.

Keep this manual on or near the equipment so that anyone who uses or services it can read it.

If you are having issues, refer to the **Troubleshooting** section of this manual for assistance.

Technical support and service is available from your dealer, on the Web at bendpak.com/support, by email at techsupport@bendpak.com, or by phone at **(800) 253-2363**, extension 196.

You may also contact BendPak for parts replacement information (please have the model and serial number of your unit available) at **(800) 253-2363**, extension 191.

Shipping Information

Your equipment was carefully checked before shipping. Nevertheless, you should thoroughly inspect the shipment **before** you sign to acknowledge that you received it.

When you sign the bill of lading, it tells the carrier that the items on the invoice were received in good condition. **Do not sign the bill of lading until after you have inspected the shipment.** If any of the items listed on the bill of lading are missing or damaged, do not accept the shipment until the carrier makes a notation on the bill of lading that lists the missing and/or damaged goods.

If you discover missing or damaged goods **after** you receive the shipment and have signed the bill of lading, notify the carrier at once and request the carrier to make an inspection. If the carrier will not make an inspection, prepare a signed statement to the effect that you have notified the carrier (on a specific date) and that the carrier has failed to comply with your request.

It is difficult to collect for loss or damage after you have given the carrier a signed bill of lading. If this happens to you, file a claim with the carrier promptly. Support your claim with copies of the bill of lading, freight bill, invoice, and photographs. Our willingness to assist in helping you process your claim does not make us responsible for collection of claims or replacement of lost or damaged materials.

Safety Considerations

Read this manual carefully before using your new product. Do not set up or operate the product until all installers/operators are familiar with all operating instructions and warnings.

General Safety Information

- The products are mid-rise Scissor Lifts. Use them only for their intended purpose.
- The products should **only** be operated by authorized, trained personnel.
- Wear appropriate protective clothing when installing, servicing, or repairing these lifts.
- When the product is in use, keep people and body parts well away from it.
- Make sure all operators read and understand this *Installation and Operation Manual*. Keep the manual near the device at all times.
- Make a visual inspection of the product before using it. Check for damage or missing parts. Do not use the product if you find any issues. Instead, take it out of service, then contact your dealer, email techsupport@bendpak.com, visit bendpak.com/support, or call **(800) 253-2363**.
- Make a **thorough** inspection of the product at least once a year. Replace any damaged or severely worn parts or warning labels.

Symbols

Following are the symbols used in this manual:

-  **DANGER** Calls attention to an immediate hazard that **will** result in injury or death.
-  **WARNING** Calls attention to a hazard or unsafe practice that **could** result in injury or death.
-  **CAUTION** Calls attention to a hazard or unsafe practice that could result in minor personal injury, product, or property damage.

NOTICE

Calls attention to a situation that, if not avoided, could result in product or property damage.



Tip

Calls attention to information that can help you use your product better.

Liability Information

BendPak Inc. assumes **no** liability for damages resulting from:

- Use of the product for purposes other than those described in this manual.
- Modifications to the equipment without prior, written permission from BendPak Inc.
- Damage to the equipment from external influences.
- Incorrect operation of the equipment.

Frequently Asked Questions

Question: How much weight can MDS-6 Series Lifts raise?

Answer: They can raise Vehicles up to 6,000 pounds (2,722 kg).

Q: What is the difference between the MDS-6EXT and MDS-6LP Lifts?

A: The MDS-6EXT has **extended-length Platforms**, so it can raise Vehicles with longer wheelbases. The MDS-6LP can **raise Vehicles higher**.

Q: How high does a “mid-rise” Scissor Lift raise a Vehicle?

A: There are differences between the four models, but they all raise in the neighborhood of three feet, plus a little extra height from the Lift Blocks.

Q: What does “flush mount” mean?

A: It means the Frames of the MDS-6EXT**F** and MDS-LP**F** are installed below the surface of the Concrete, in a Concrete Cutout, so Vehicles drive straight onto the Platforms without having to go up a Ramp (the tops of the Platforms are “flush” with the floor).

Q: Can the Lifts covered in this manual be installed outdoors?

A: No. Both Lifts are approved for indoor installation and use only. Outdoor installation is prohibited.

Q: Can I put the Console on either side of the Lift?

A: Yes. The Hydraulic Lines and the Covers that come with the Lifts are long enough to support the Console being up to 40 inches away on either side. Make sure to position the Console next to the Side Holes in the Bases; the Air and Hydraulic Lines are routed through them.

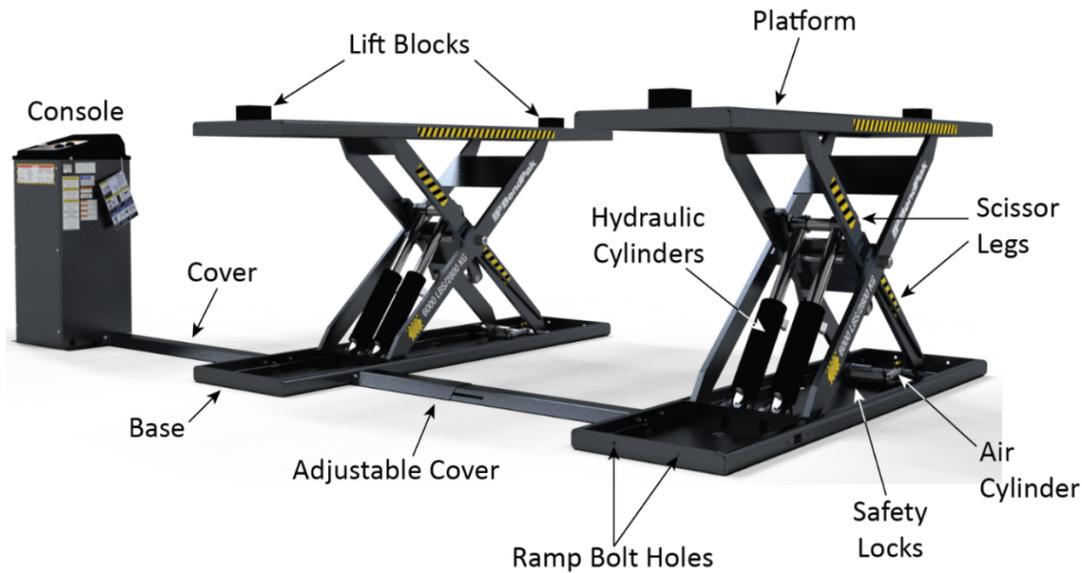
Q: What does a Safety Lock do?

A: Safety Locks hold the Platforms up, **once they are engaged**. Even if the Lift loses power, the Platforms stay where they are if they were left engaged on a Safety Lock. **Only leave your Lift either fully lowered or engaged on a Safety Lock.**

Q: How many Safety Locks do the Lifts have?

A: Three.

Components



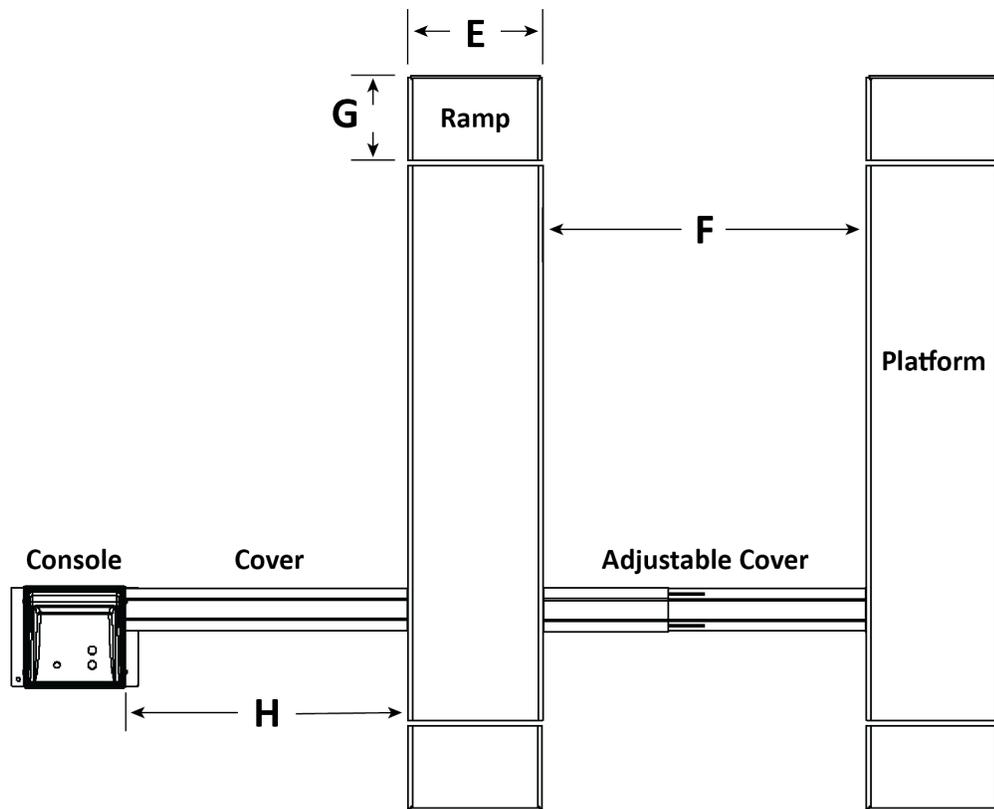
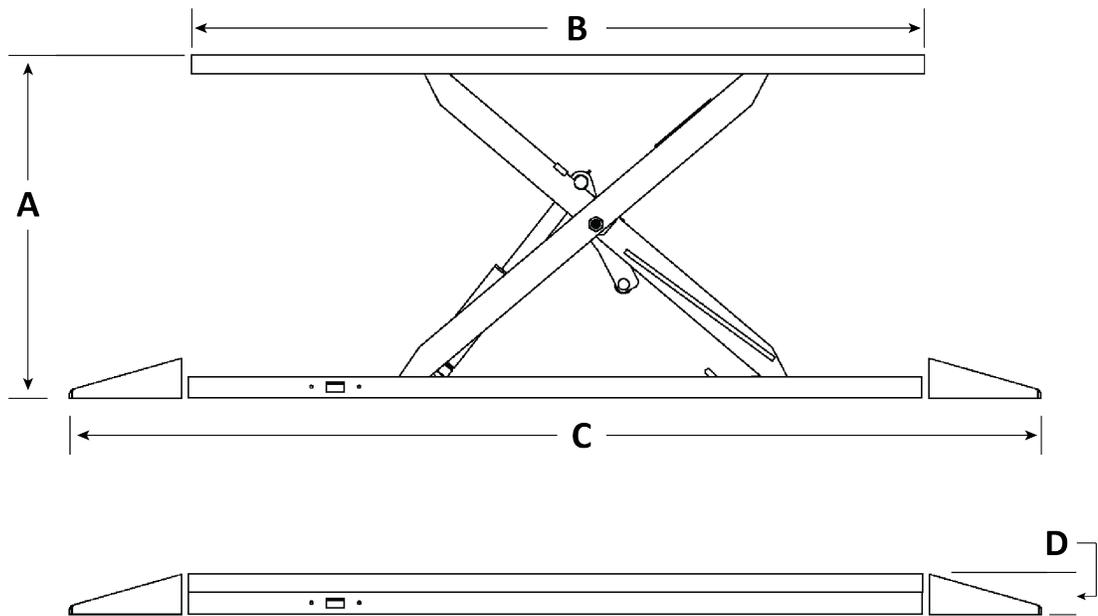
MDS-6EXT shown without Ramps. Power Unit and Flow Divider are inside the Console. Air and Hydraulic Lines are routed under the two Covers.

Lift components include:

- **Console.** Hosts the Lift Controls (on top) and the Power Unit and Flow Divider (inside). The Air and Hydraulic Lines connect to the Power Unit inside the Console.
- **Power Unit.** Provides Hydraulic Fluid to the Hydraulic Cylinders. Housed inside the Console. Connects to an external power source and to the Lift Controls.
- **Flow Divider.** Evenly splits the Hydraulic Fluid coming from the Power Unit so that the Platforms raise and lower together.
- **Ramps.** Used to drive onto and off of the Platforms for the MDS-6EXT and MDS-6LP. Not included with the MDS-6EXT or the MDS-6LP.
- **Platforms.** The tops of the Lift. Flat steel plates that raise and lower.
- **Lift Blocks.** Rubber blocks that make contact with the lifting points on the underside of the Vehicle being raised. Eight tall and eight medium Lift Blocks are included.
- **Base.** The bottoms of the Lift. They hold the Hydraulic Cylinders, the Scissor Legs, the Safety Locks, and the Air Cylinder. You anchor the Lift in place using the Anchor Bolt holes in each Base.
- **Frames.** A Platform, Base, and Scissor Legs taken together are called a Frame. All four models described in this manual have two Frames.
- **Scissor Legs.** The parts of the Lift that raise and lower, powered by the Hydraulic Cylinders.
- **Hydraulic Cylinders.** Push the Platforms up to raise a Vehicle, move them down to lower it.
- **Safety Locks.** Hold the Lift Platforms in place. Each Lift has multiple Safety Lock positions, which let you select the best Platform height for your needs.
- **Air Cylinders.** Push the Platforms off their Safety Locks so you can lower the Lift. You must provide an air pressure supply (minimum 50 psi / 10 CFM, regulated to a maximum of 125 psi).
- **Cover and Adjustable Cover.** Cover the Air and Hydraulic Lines.
- **Side Holes.** Holes in the sides of the Base through which the Air and Hydraulic Lines are routed.

Specifications

MDS-6EXT and MDS-6EXTF

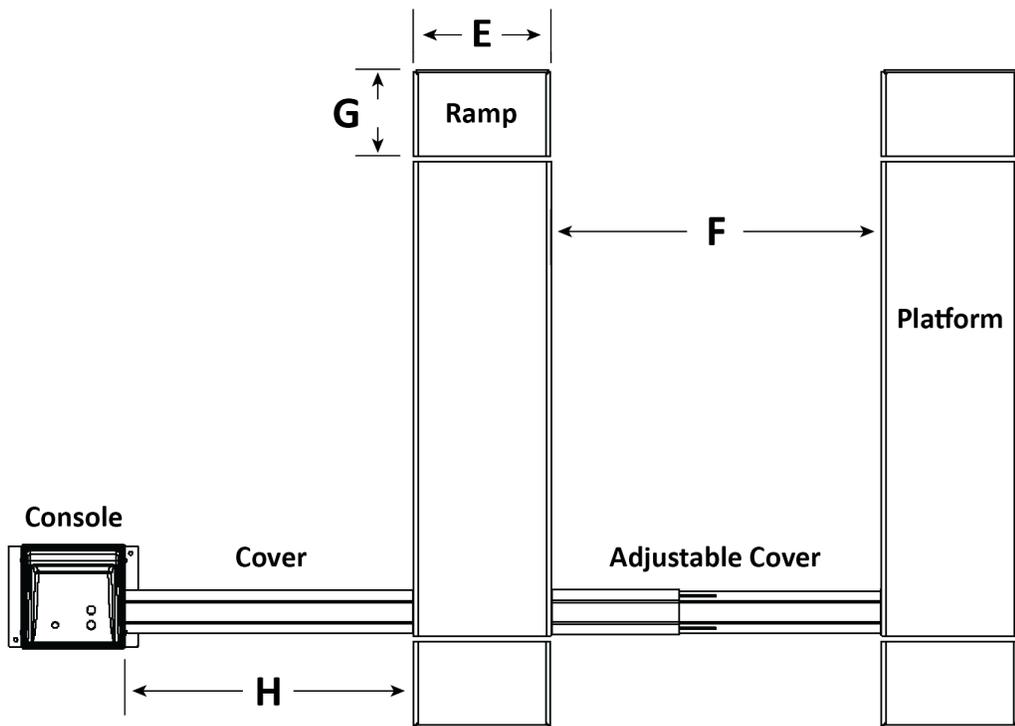
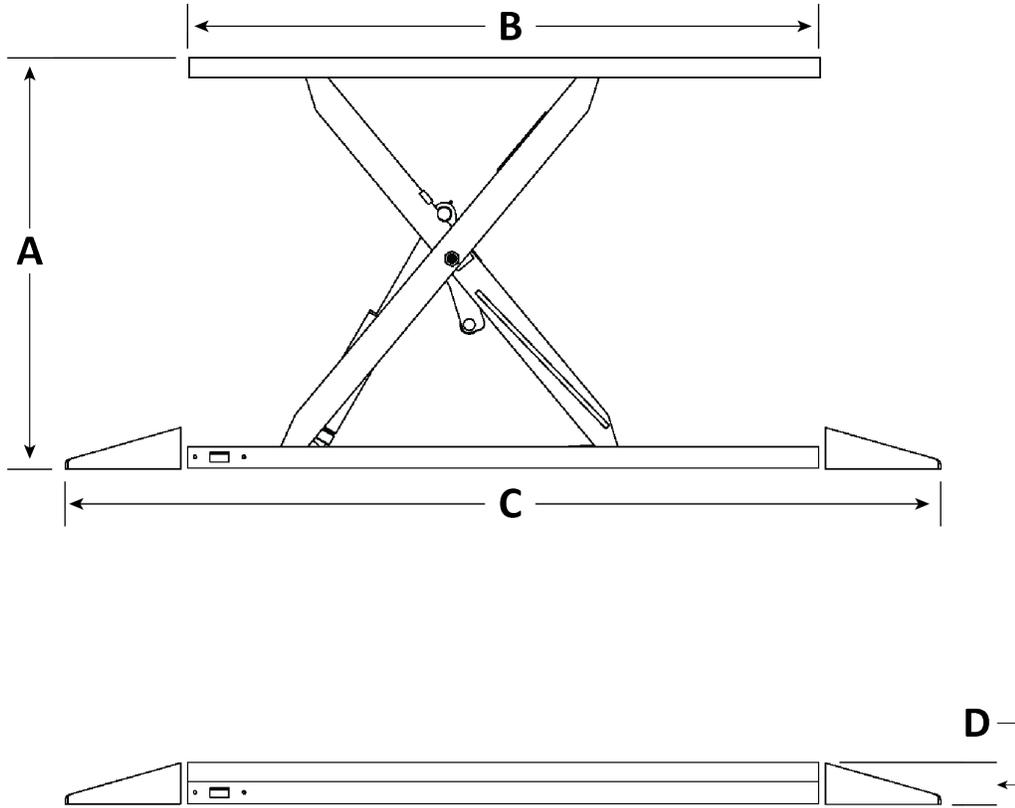


*The MDS-6EXT**F** does not have Ramps or Covers.*

Model	MDS-6EXT	MDS-6EXTF
Type	Surface	Flush-Mount
Lifting capacity	6,000 lbs. / 2,722 kg	6,000 lbs. / 2,722 kg
A Lifting height (no blocks)	37" / 935 mm	32.25" / 819 mm
Lifting height (short lift blocks)	37.5" / 955 mm	33" / 839 mm
Lifting height (med lift blocks)	39" / 990 mm	34.5" / 874 mm
B Platform length	78.75" / 2,000 mm	78.75" / 2,000 mm
C Total length	104.25" / 2,650 mm (ramps)	78.75" / 2,000 mm (no ramps)
D Lowered height	4.5" / 116 mm	Flush with ground
E Platform width	19" / 484 mm	19" / 484 mm
F Width between Platforms	40 to 46" / 1,018 to 1,168 mm	40 to 46" / 1,018 to 1,168 mm
G Ramp Length	12.75" / 325 mm	No ramps
H Max. Platform to Console	40" / 1,024 mm	40" / 1,024 mm
Lifting time	35 seconds	35 seconds
Motor	220 VAC at 50 Hz, 1 Ph 208-230 VAC at 60 Hz, 1 Ph	220 VAC at 50 Hz, 1 Ph 208-230 VAC at 60 Hz, 1 Ph

Specifications subject to change without notice.

MDS-6LP and MDS-6LPF



*The MDS-6LP**F** does not have Ramps or Covers.*

Model	MDS-6LP	MDS-6LPF
Type	Surface	Flush-Mount
Lifting capacity	6,000 lbs. / 2,722 kg	6,000 lbs. / 2,722 kg
A Lifting height (no blocks)	43" / 1,093 mm	38.5" / 977 mm
Lifting height (med lift blocks)	45.25" / 1,148 mm	40.5" / 1,032 mm
Lifting height (tall lift blocks)	46" / 1,168 mm	41.5" / 1,052 mm
B Platform length	67" / 1,701 mm	67" / 1,701 mm
C Total length	92.5" / 2,351 mm (ramps)	67" / 1,701 mm (no ramps)
D Lowered height	4.5" / 116 mm	Flush with ground
E Platform width	19" / 484 mm	19" / 484 mm
F Width between Platforms	40 to 46" / 1,018 to 1,168 mm	40 to 46" / 1,018 to 1,168 mm
G Ramp Length	12.75" / 325 mm	N/A
H Maximum Distance Platform to Console	40" / 1,024 mm	40" / 1,024 mm
Lifting time	35 seconds	35 seconds
Motor	220 VAC at 50 Hz, 1 Ph 208-230 VAC at 60 Hz, 1 Ph	220 VAC at 50 Hz, 1 Ph 208-230 VAC at 60 Hz, 1 Ph

Specifications subject to change without notice.

Installation Checklist

Following are the steps needed to install the Lift. Perform them in the order shown.

- 1. Review the installation Safety Rules.
- 2. Plan for Electrical Work.
- 3. Make sure you have the necessary Tools.
- 4. Select the installation Site.
- 5. Check Clearances around the Lift.
- 6. Create Concrete Cutouts; flush-mount models only.
- 7. Create a Floor Plan.
- 8. Lift the Platforms off the Bases.
- 9. Anchor the Bases.
- 10. Set up and anchor the Console.
- 11. Connect the Hydraulic Lines.
- 12. Understand Compression Fittings and Tubing.
- 13. Connect the Air Lines.
- 14. Contact the Electrician.
- 15. Connect and prepare the Power Unit (electrician required for some parts).
- 16. Install a Power Disconnect Switch (electrician required).
- 17. Install a Thermal Disconnect Switch (electrician required).
- 18. Lubricate the Lift.
- 19. Add the Ramps.
- 20. Anchor the Console (if it is not already anchored).
- 21. Perform an Operational Test.
- 22. Review the Final Checklist.
- 23. Leave the Manual for the Owner/Operator.

Installation

This section describes how to install your Lift. Perform the steps in the order listed.

Correct operation of the Lift requires correct installation. **Take your time, read the instructions, do it right.**

⚠ WARNING **Only use the factory-supplied parts that came with your Lift.** If you use parts from a different source, you void your warranty and compromise the safety of everyone who installs or uses the Lift. If you are missing parts, visit bendpak.com/support or call **(800) 253-2363**, extension 191.

Your Lift is supplied with installation instructions and concrete fasteners that meet the criteria set by the American National Standard “Automotive Lifts – Safety Requirements for Construction, Testing, and Validation” ANSI/ALI ALCTV-2011.

Lift owners are responsible for any special regional, structural, or seismic anchoring requirements specified by any agencies or codes, such as the Uniform Building Code or International Building Code.

Safety Rules

When installing your Lift, your safety depends on proper training and thoughtful operation.

⚠ WARNING Do not install this equipment unless you have automotive Lift installation training. Always use proper lifting tools, such as a forklift or shop crane, to raise heavy components. Do not install this equipment without reading and understanding this manual and the safety labels on the unit.

Only fully trained personnel should be involved in installing this equipment. **Pay attention at all times.** Use appropriate tools and lifting equipment, when needed. Stay clear of moving parts.

⚠ WARNING You must wear appropriate protective equipment: leather gloves, steel-toed work boots, eye protection, back belts, and hearing protection.

Electrical Work

You will need to have a licensed, certified Electrician available at some point during the installation. The things the electrician needs to do are grouped together near the end of the installation.

⚠ DANGER All wiring **must** be performed by a licensed, certified Electrician.

The electrician needs to:

- **Connect the 220 VAC power source to the Power Unit.** The Electrician will need to provide a power cable with an appropriate plug. *The power cable and plug are not included.*
- **Install a Power Disconnect Switch.** A Power Disconnect Switch ensures that the equipment shuts down in the event of an electrical circuit fault or emergency situation. Refer to **Install a Power Disconnect Switch** for more information.
- **Install a Thermal Disconnect Switch.** A Thermal Disconnect Switch ensures that the equipment shuts down in the event of an overload or an overheated motor. Refer to **Install a Thermal Disconnect Switch** for more information.

It is the responsibility of the Electrician to bring the necessary components.

Tools

You may need some or all of the following tools:

- Rotary hammer drill or similar
- 3/4", 3/8", 1 1/4" masonry bits
- Hammer
- Open-end wrench set: 1/2", 15/16" – 1 1/8" or adjustable wrench
- Socket and ratchet set, 1 1/8"
- Medium crescent wrench
- Level (4 foot recommended)
- Crow bar
- Chalk line
- Medium flat screwdriver
- Tape measure (25-foot recommended)
- Forklift or shop crane

Select a Site

Keep the following in mind when selecting a site for your Lift:

- **Enough space.** Make sure there is adequate space on all sides, plus enough room above for the Vehicles you will be raising. Refer to **Clearance Around the Lift** for more information.
- **No overhead obstructions.** Make sure the site is free of low-hanging overhead obstructions.
- **Concrete specifications.** Do not install the Lift on cracked or defective concrete. Make sure the concrete is at least 4.25 inches thick, 3,000 psi, and cured for at least 28 days (if newly poured). Make sure the floor is defect-free, dry, and level. Only install the Lift on concrete. Note that flush-mount Lifts require a greater depth of concrete.

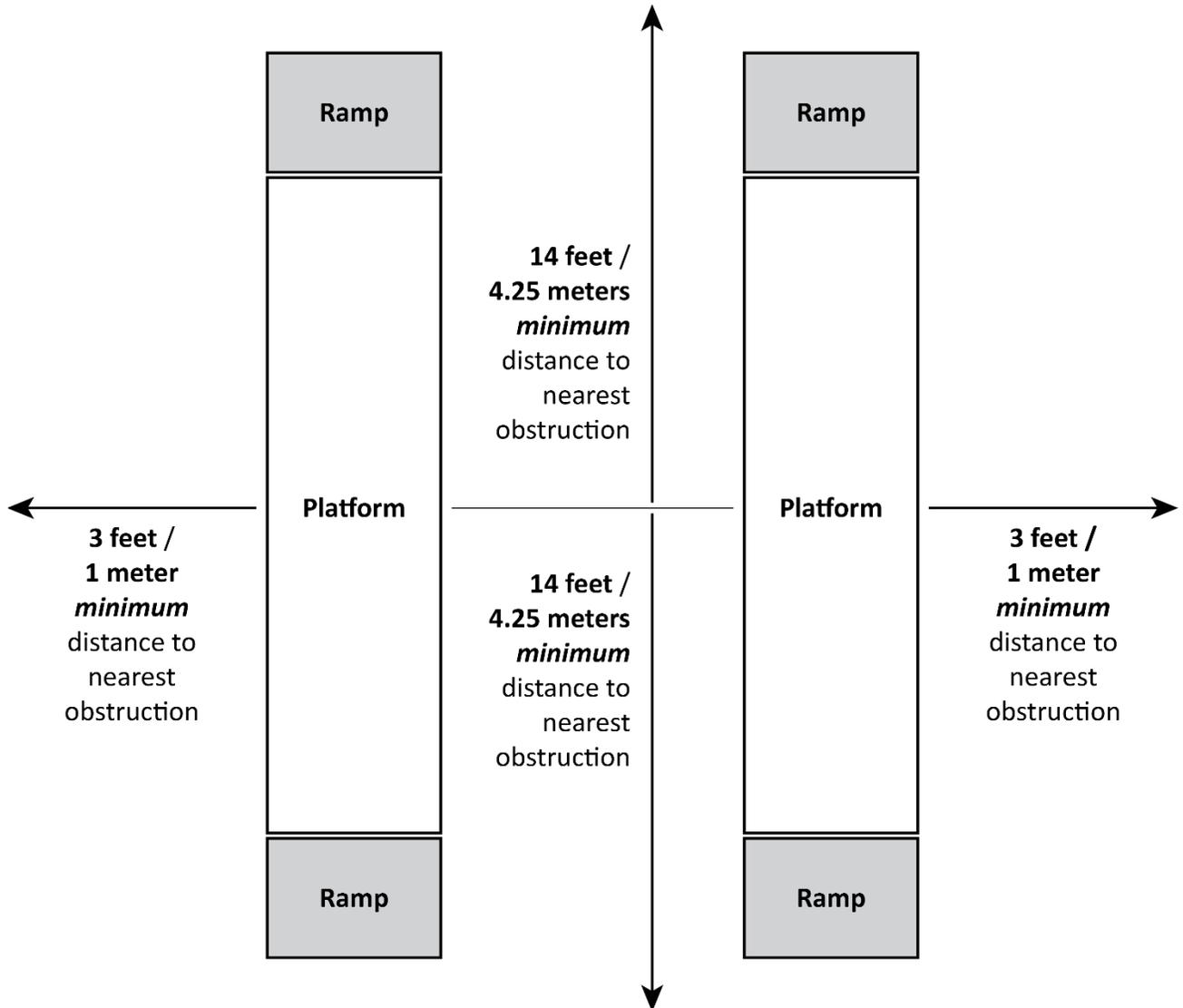
 **WARNING** Do not install your Lift on a surface with 3° of slope or greater. A 3° slope or greater could lead to property damage, personal injury, or death.

- **Power.** You need an appropriate power source near the Console. If you are using the Lift at 220 VAC at 50 Hz, use a 25 amp or greater fuse. If you are using the Lift at 208-230 VAC at 60 Hz, use a 25 amp or greater fuse.
- **Operating temperature.** The Lift is designed to be used between temperatures of 41° to 104°F (5° to 40°C).
- **Outdoor installation.** All Lift models are approved for *indoor* installation and use only. Outdoor installation is prohibited.-
- **Second floor installs.** Do not install the Lift on a second floor or elevated floor without first consulting the building architect and getting their permission.
- **Dress properly.** Wear protective gear (safety goggles, helmet, heavy gloves, suitable working clothes, safety boots, ear protection, and so on) at all times when installing the Lift. Do not wear loose clothing or jewelry; contain long hair; keep hair, clothing, and gloves away from moving parts.

 **WARNING** Always wear appropriate protective gear when working on the Lift.

Clearance Around the Lift

For safety purposes, a certain amount of clear space around the Lift is **required**.

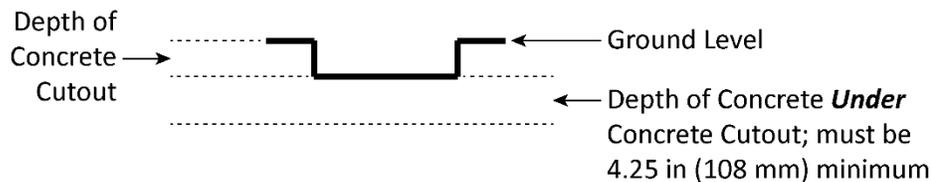


Prepare the Concrete Cutouts: Flush-Mount Models Only

Important: BendPak *strongly* recommends working with a Concrete Specialist to plan and create the Concrete Cutouts for your Flush-Mount Lift.

It is important to understand the following **before** creating the Concrete Cutouts for your Lift:

- **Concrete Cutouts.** The Frames of a Flush-Mount Lift are installed in a recessed section of the floor, called a Concrete Cutout. Concrete Cutouts **must** be created in advance.
- **Depth of the Concrete Cutouts.** Concrete Cutouts must be a specific depth below floor level so that when the Frames are put down into the Concrete Cutouts, the tops of the Platforms are flush with the floor.
- **Concrete Curing Time.** Concrete Cutouts must cure for a minimum of 28 days before they are strong enough to support Anchor Bolts.
- **Floor Material.** Concrete Cutouts must be created in a **Concrete** floor; no other surface (asphalt, dirt, anything else) is acceptable.
- **Decisions.** There are certain decisions you must make **before** creating your Concrete Cutouts: Lift location, Console location, and how far apart the two Frames will be. Incorporate your decisions into the Plan you create with your Concrete Specialist.
- **Cutout Size.** Concrete Cutouts need to be slightly larger than the Frames. The values listed at the end of this section add about .5 inch (~12.75 mm) on all four sides of each Frame.
- **Concrete Depth.** The Concrete depth **below the bottom** of the Concrete Cutouts must be deep enough for the Anchor Bolts; a minimum of 4.25 inches.



- **Air and Hydraulic Lines:** Because the Frames are recessed, the Air and Hydraulic Lines start out recessed as well. Your plan for the Concrete Cutouts need to account for how these Lines will be routed to the Console.

Some people use PVC tubing to create a hole between the two Bases when creating their Concrete Cutouts. This allows the Lines to be routed between the two Bases below floor level.

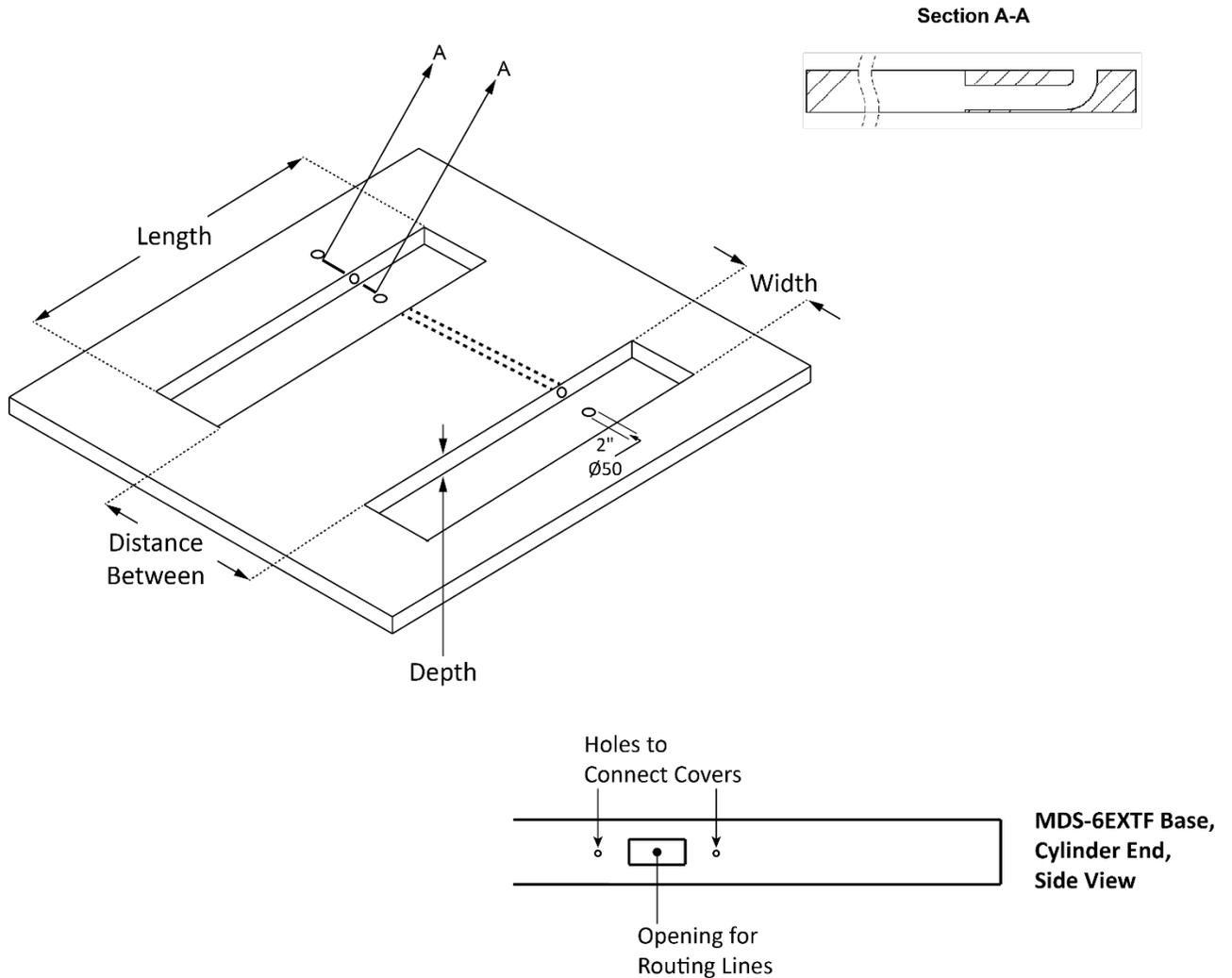
Some people also use PVC tubing to create a hole from the Base towards the Console. This allows the Lines to be routed below floor level for at least part of the way from the Base to the Console.

Both Bases come with rectangular openings for routing the Hydraulic and Air Lines; two per Base, both on the Cylinder end. There is also one circular opening in the bottom of each Base, also on the Cylinder end, that can be used for routing the Hydraulic and Air Lines.

These openings are for your convenience. If they work for your environment, use them. If they do not work for your environment, you are not required to use them.

- **Lift Location.** Use care when selecting a location for a Flush-Mount Lift. Once you create your Concrete Cutouts, the Lift location is fixed.
- **Console Location.** The Console can go on either side of the Lift. The supplied hosing allows you to put it up to a certain distance away from the closest Base.
- **Distance Between Frames.** Most Scissor-Lift Frames can be a variable distance apart, allowing you to pick the best width for the Vehicles you will be lifting. Determine the distance you want, then add that to your Plan.

You and your Concrete Specialist can use the following diagram as a guide if you are creating Concrete Cutouts for an MDS-6EXTF.



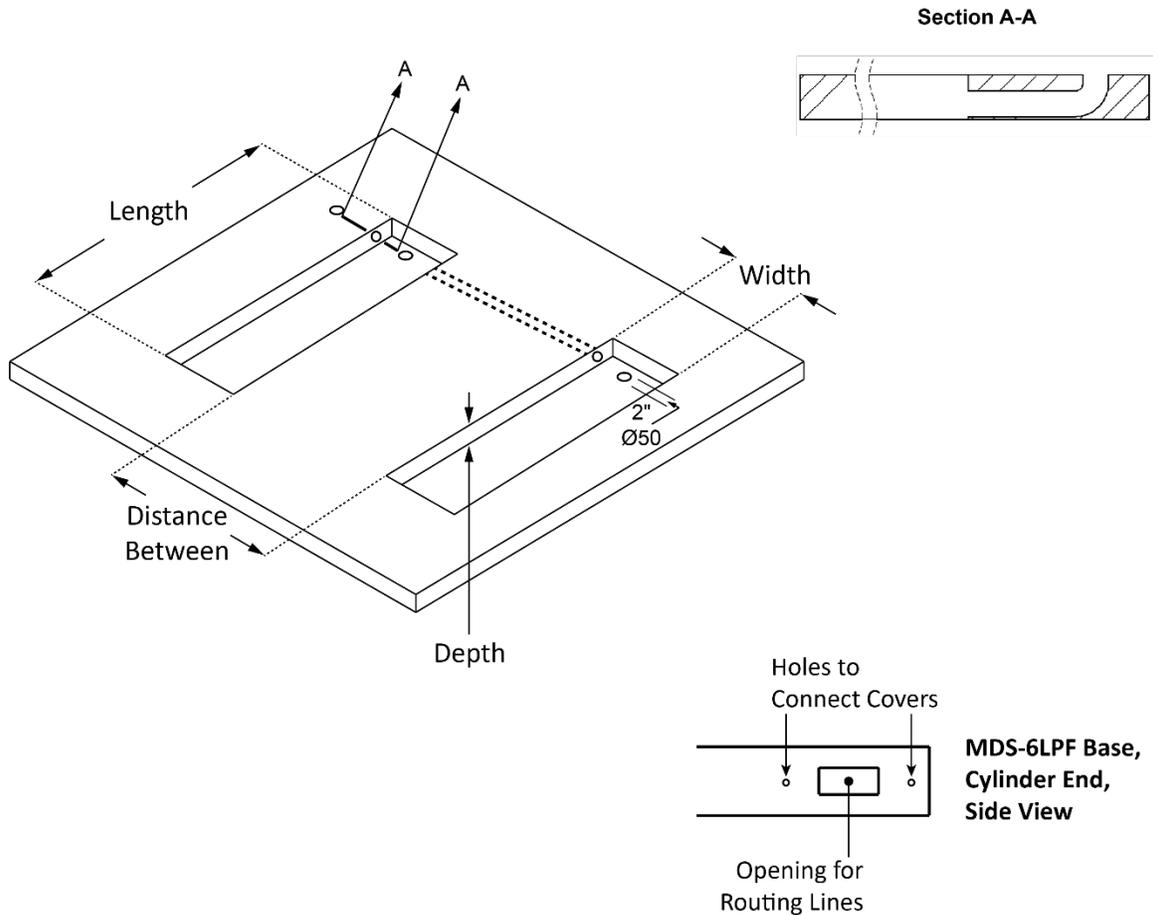
Drawing not necessarily to scale. Not all components shown.

The Flush-Mount Lift settings for the **MDS-6EXTF** are:

- **Length.** The Length of each Frame is 78.75 inches / 2,000 mm; add 1 inch / 25 mm to get **~79.75 inches / 2,025 mm.**
- **Width.** The Width of each Frame is 19 inches / 484 mm; add 1 inch / 25 mm to get **~20 inches / 509 mm.**
- **Depth.** The Lowered height of each Frame is **4.5 inches / 116 mm.** You do **not** add an extra inch to this value.
- **Distance Between.** The two Bases can be from **40 to 46 inches / 1,018 to 1,168 mm** apart. You do **not** add an extra inch to this value.
- **Distance to Console.** The supplied hosing allows the Console to be up to **40 inches / 1,024 mm** from the nearest Base. You do **not** add an extra inch to this value.

NOTICE If you create your Concrete Cutouts and then change your mind about the Distance Between or find out you made a mistake with one of the numbers, it is very difficult to fix. BendPak recommends double checking your plan several times before pouring your Concrete Cutouts.

You and your Concrete Specialist can use the following diagram as a guide if you are creating Concrete Cutouts for an MDS-6LPF.



Drawing not necessarily to scale. Not all components shown.

The Flush-Mount Lift settings for the **MDS-6LPF** are:

- **Length.** The Length of each Frame is 67 inches / 1,701 mm; add 1 inch / 25 mm to get **~68 inches / 1,726 mm.**
- **Width.** The Width of each Frame is 19 inches / 484 mm; add 1 inch / 25 mm to get **~20 inches / 509 mm.**
- **Depth.** The Lowered height of each Frame is **4.5 inches / 116 mm.** You do **not** add an extra inch to this value.
- **Distance Between.** The two Bases can be from **40 to 46 inches / 1,018 to 1,168 mm** apart. You do **not** add an extra inch to this value.
- **Distance to Console.** The supplied hosing allows the Console to be up to **40 inches / 1,024 mm** from the nearest Base. You do **not** add an extra inch to this value.

NOTICE

If you create your Concrete Cutouts and then change your mind about the Distance Between or find out you made a mistake with one of the numbers, it is very difficult to fix. BendPak recommends double checking your plan several times before pouring your Concrete Cutouts.

Create a Floor Plan

Make sure to plan out, in advance, where the Lift and Console are going to go:

- **Clearance.** Make sure there is clearance on all sides and above.
- **Console.** The Console must be near the Lift; it can be installed on either side. The Hydraulic Lines that come with the unit can support up to 40 inches between the Lift and the Console.
- **Operator.** The operator at the Console **must** have a full, unobstructed view of the Lift.
- **Power.** The Console must be positioned near an appropriate power source.
- **Set up Chalk Line Guides.** Create Chalk Line Guides for the Lift to make sure the Lift is properly aligned.

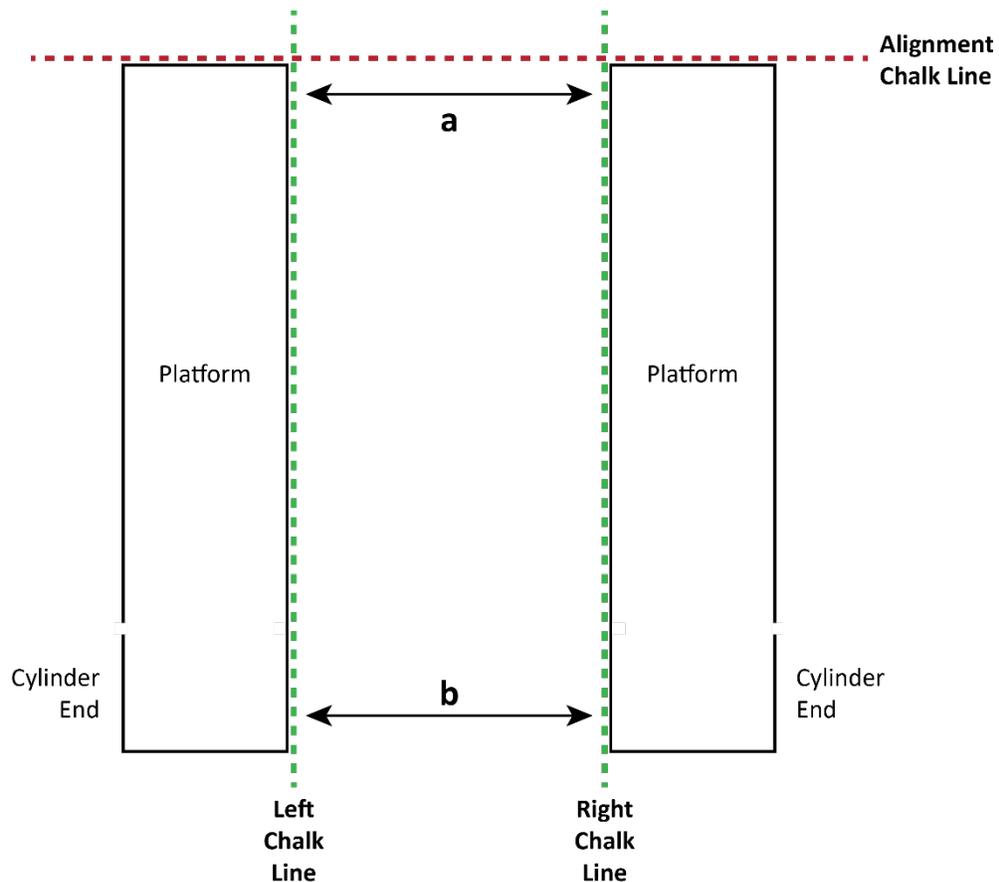
To create Chalk Line Guides:

1. Decide where you want to locate the Lift. Keep in mind the Console needs to be within 40 inches.
2. Create an Alignment Chalk Line where you want the front of the Lift. Note that the drawing below does not show the Ramps.

Make the Alignment Chalk Line longer than the width of the Platforms and the space between.

3. Add two more Chalk Lines perpendicular to the Alignment Chalk Line and the same distance apart that you want your Platforms to be (within the range of 40" to 46" / 1,018 mm to 1,168 mm).

The following drawing shows the Alignment Chalk Line at the front of the Lift and Left and Right Chalk Lines perpendicular to the Alignment Chalk Line.



Not necessarily to scale. Not all components shown. Ramps not shown.

-
4. Move the two Platforms into position where the Left and Right Chalk Lines intersect the Alignment Chalk Line.

**Tip**

If you are installing the Lift over a pit, you can skip the Left and Right Chalk Lines and just use the edges of the pit as guides. Do not overhang the pit.

5. Measure the distance between the two Platforms at points **a** and **b**; the two Platforms need to be the same distance apart at both points.

If **a** and **b** are not the same, adjust the Platform locations; make sure they are the same distance apart and parallel to each other (or the pit, if installing over a pit).

6. When the Platforms are in the correct locations, they can be anchored into place.

Lift the Platforms Off the Bases

You must raise the Platforms off their Bases in order to anchor the Lift into position and connect the Hydraulic and Air Lines. **Be sure to leave the Lift on a Safety Lock when you raise it.**

Important:

BendPak recommends using the Eyelet that comes with the Lift to raise the Platforms off the Bases.

**WARNING**

BendPak strongly recommends using **at least three people** to lift the Platforms off their Bases: one person on each end to hold down the Base and one person to operate the forklift or shop crane to raise the Platform. **Use care when raising the Platforms off their Bases; they are heavy and sometimes difficult to hold.**

To lift the Platforms off the Bases:

1. Install the Eyelet in the middle of the Platform you want to raise.
2. Attach a rope to the Eyelet and use a forklift or shop crane to raise the Platform off of its Base.

Make sure to hold down the Base while you raise the Platform.

**Tip**

Once the Platform and Base are separated by more than half an inch (~13 mm), you can put industrial slings (straps) around each end to continue raising the Platform off the Base. You can continue using the Eyelet, if you prefer.

3. When the Platform gets above the top Safety Lock, lower it back down onto the top Safety Lock. Do not raise the Platform a random distance; leave it on the top Safety Lock.
4. Remove the Eyelet from the first Platform, install the Eyelet on the second Platform, then perform the same procedure on the second Platform.

Anchor the Bases

Each Base has holes for anchoring it to the Concrete.

Before you anchor your Lift, make sure the two Platforms are correctly aligned. BendPak recommends double checking the work done when creating your Chalk Line Guides.

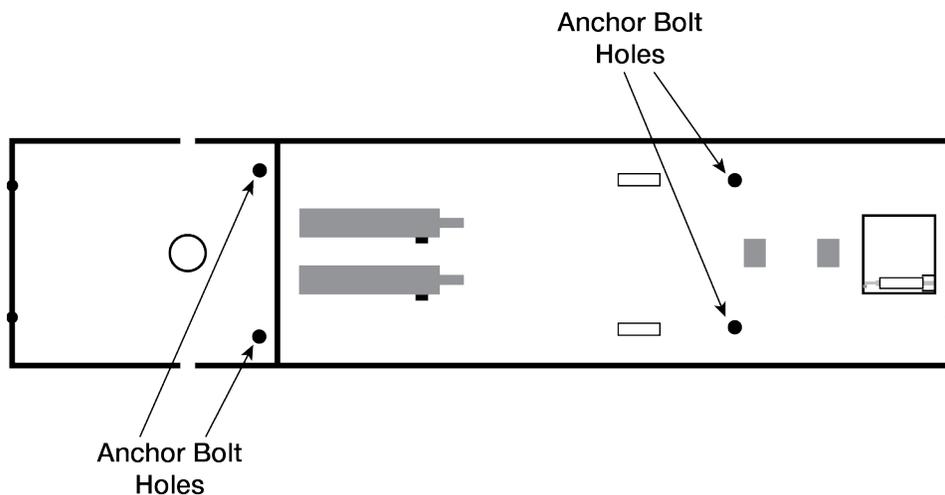
⚠ CAUTION Poor alignment can impact how the Lift raises and lowers. Take the time now, before you anchor the Lift in place, to make sure it is correctly aligned.

Anchor Bolt specifications are:

- **Length:** 5 inches
- **Diameter:** ¾ inch
- **Effective embedment depth:** 2.75 inches, minimum
- **Anchor torque:** 110 – 150 foot pounds

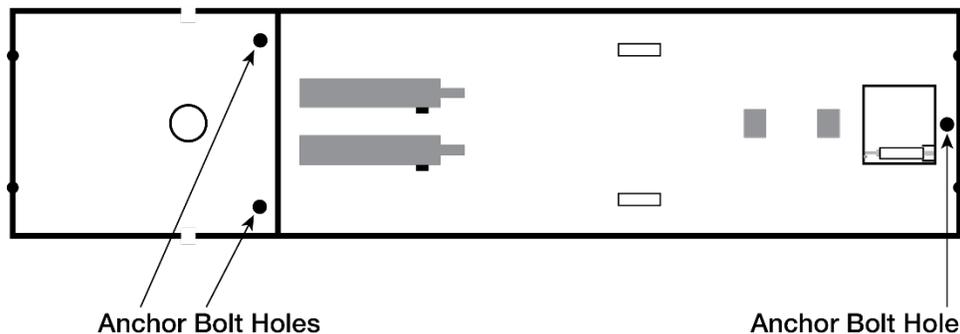
⚠ WARNING **Only use the factory-supplied parts that came with your Lift.** If you use components from a different source, you void your warranty and compromise the safety of everyone who installs or uses the Lift.

The following drawing shows the locations of the Anchor Bolt holes for the **MDS-6EXT/F**.



Not necessarily to scale. Not all components shown.

The following drawing shows the locations of the Anchor Bolt holes for the **MDS-6LP/F**.



Not necessarily to scale. Not all components shown.

To anchor the Bases:

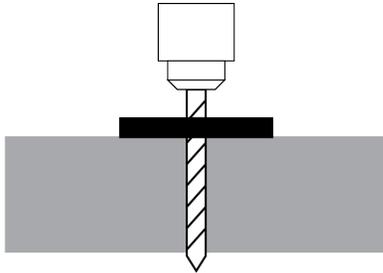
1. Make sure the Bases are where you want them.

Once you anchor the Bases into place, it is difficult to change the location. Once the Anchor Bolts are torqued into position, they are not easily removed. BendPak strongly recommends making sure the Bases are in the correct location **before** anchoring the Bases into place.

2. Using the holes in the Bases as guides, drill the holes for the Anchor Bolts.

Note: If you prefer, you can mark the Anchor Bolt hole locations, move the Platforms out of the way, drill the holes, and then move the Platforms back into position over the holes.

Go in straight; do not let the drill wobble.

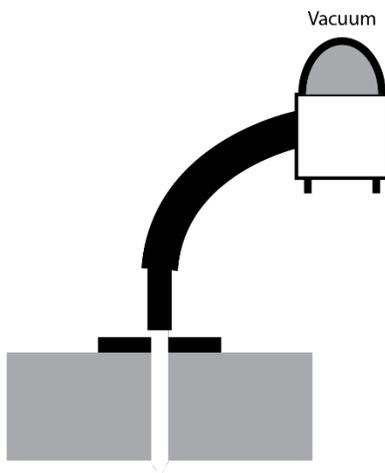


Use a carbide bit (conforming to ANSI B212.15-1994).

The diameter of the drill bit **must** be the same as the diameter of the Anchor Bolt. So if you are using a $\frac{3}{4}$ inch diameter Anchor Bolt, for example, use a $\frac{3}{4}$ inch diameter drill bit.

3. Clean each hole.

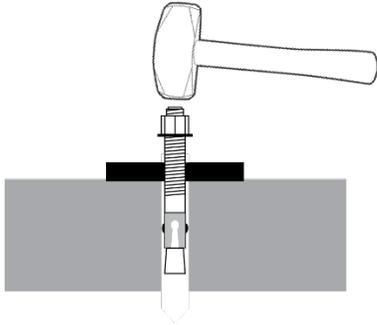
Use a vacuum to completely clean the hole. If a vacuum is not available, you could use a wire brush, hand pump, or compressed air.



Do **not** ream the hole. Do **not** make the hole any wider than the drill bit made it.

-
4. Make sure the Washer and Nut are in place, then insert the Anchor Bolt into the hole.

The Expansion Sleeve of the Anchor Bolt may prevent the Anchor Bolt from passing through the hole in the Base; this is normal. Use a hammer or mallet to get the Expansion Sleeve through the Base and into the hole.



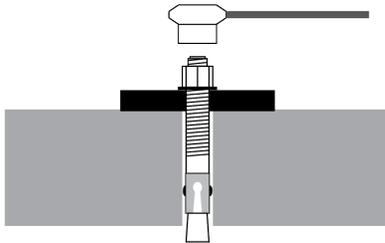
Even using a hammer or mallet, the Anchor Bolt should only go into the hole part of the way; this is normal. If the Anchor Bolt goes all the way in with little or no resistance, the hole is too wide.

Once past the hole in the Base, the Anchor Bolt eventually stops going down into the hole as the Expansion Sleeve contacts the sides of the hole; this is normal.

5. Hammer or mallet the Wedge Anchor the rest of the way down into the hole.

Stop hammering when the Washer is snug against the Base.

6. Wrench each Nut **clockwise** to the recommended installation torque, 110 – 150 foot pounds, using a Torque Wrench.



Important: Do **not** use an impact wrench to torque the Anchor Bolts.

Wrenching the Nut forces the Wedge up, pushing out the Expansion Sleeve and pressing it tightly against the Concrete.

Set Up and Anchor the Console

The Console comes assembled from the factory.

Important: You still have to make connections to the Power Unit.

The Hydraulic and Air Lines require the Console to be within 40 inches of the cylinder end of the Lift.



Tip

If you want to set up the Console further than 40 inches from your Lift, you will need to get Hydraulic Lines that are long enough to reach the Lift from the desired location. You may be able to obtain these lines from the local hydraulics shop, once you know how long you need them. You will also need longer Air Lines. **For safety purposes, the Console operator must be able to see the Lift during operation.**

The following procedure describes anchoring the Console into place. If you prefer, you can defer anchoring the Console.

Why would you defer anchoring the Console? Anchoring the Console is a relatively permanent decision. Delaying the anchoring gives you a chance to evaluate how well you like the your first choice for the location of the Console. It is easier to change the Console location later if it is not anchored.

When you want to anchor the Console into place, return to this section and follow the instructions.

To set up and anchor the Console:

1. Select a site for the Console that permits operators to have a full, unobstructed view of the Lift.

If you are going to use the included Hydraulic Lines, the Console can go on either side of the Lift, up to 40 inches away from the Cylinder end.

2. Remove the Console from its packaging and move it to the selected location.

Important: The Console is now in place, but it is not yet connected. **Do not make any of the connections to the Power Unit at this point.** You still need to connect the Hydraulic Lines, Air Lines, the Console Controls, and a power source to the Power Unit. To do this, you are probably going to need to remove both the Top and the Front of the Console. Refer to **Connect and Prepare the Power Unit** for connection instructions.

3. If you are ready to anchor the Console in place, locate the two 3/8" by 2 1/4" Anchor Bolts.

Note: There are four holes in the bottom of the Console, two on each side. You only need to anchor two of the four holes. BendPak recommends installing them diagonally from each other; one in the front left, the other in the right rear, for example.

4. Using the holes in the base as a guide, drill two holes 3/8" wide by 3" deep into the Concrete.

Go in straight; do not let the drill wobble. Use a carbide bit (conforming to ANSI B212.15-1994).

5. Remove all dust from the holes.

Use a wire brush, vacuum, hand pump, or compressed air. Do **not** ream the hole. Do **not** make the hole any wider than the drill bit made it.

6. Insert an Anchor Bolt with Washer into each hole, then tap it down into the hole.

7. Turn the Anchor Bolt **clockwise** to the recommended installation torque, 80 – 110 foot pounds, using a Torque Wrench.

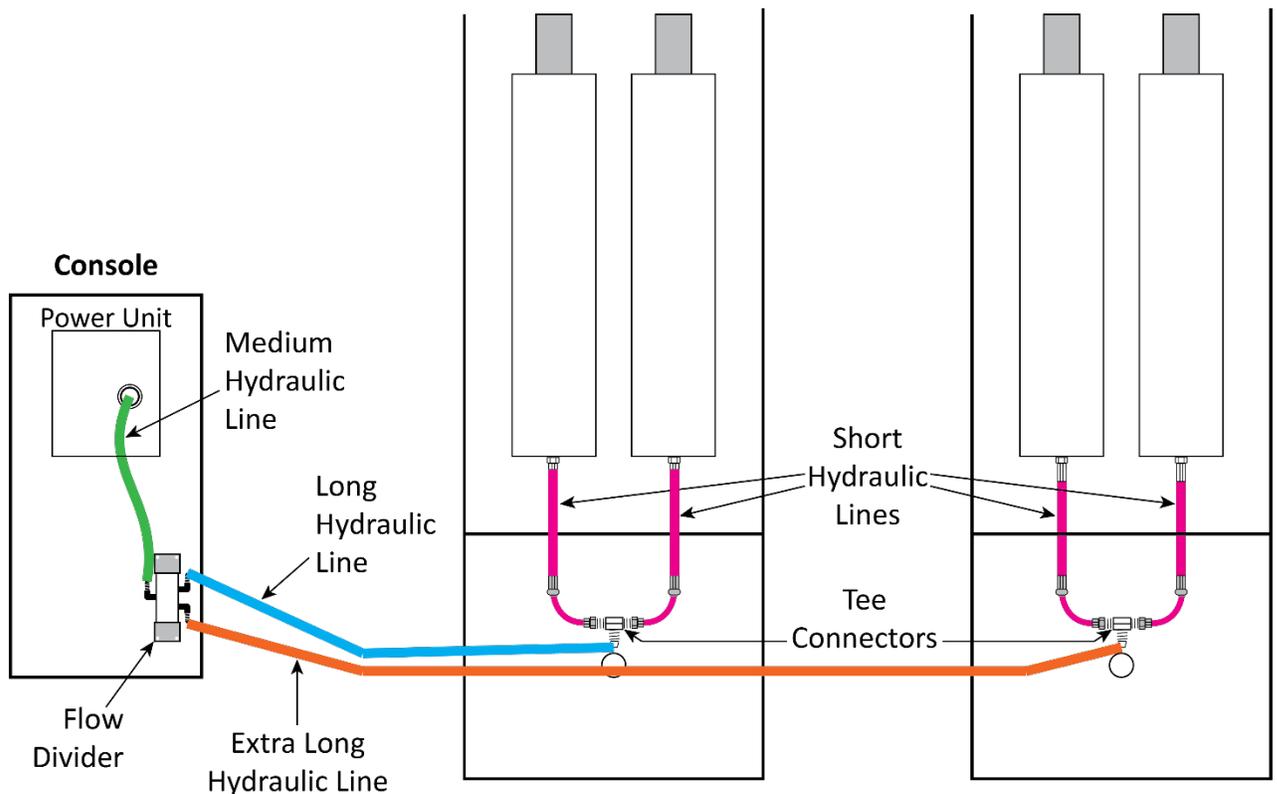
Connect the Hydraulic Lines

Hydraulic Lines provide hydraulic fluid to the Hydraulic Cylinders, which is used to raise and lower the Platforms.

The Lift comes with seven Hydraulic Lines:

- **Four Short Hydraulic Lines** (10 inches / 254 mm, two per Platform): go from the bottom of the Hydraulic Cylinders to a Tee connector. *These lines, and the Tee Connector to which they connect, come from the factory already connected.*
- **One Medium Hydraulic Line** (18 inches, 458 mm): goes from the Power Unit (inside the Console) to the **In** connector on the Flow Divider at the bottom of the Console.
- **One Long Hydraulic Line** (87 inches, 7.25 feet, 2,212 mm): goes from the Tee connector on the Platform *closest* to the Console to one of the Out ports on the Flow Divider.
- **One Extra Long Hydraulic Line** (132 inches, 11 feet, 3,352 mm): goes from the Tee connector on the Platform *furthest* from the Console to the other Out port on the Flow Divider.

The following drawing shows the general arrangement of how Hydraulic Lines are routed to the Hydraulic Cylinders. The Console is on the left in this drawing. Your Flow Divider may look differently, but it will also have one input connector and two output connectors, as shown.

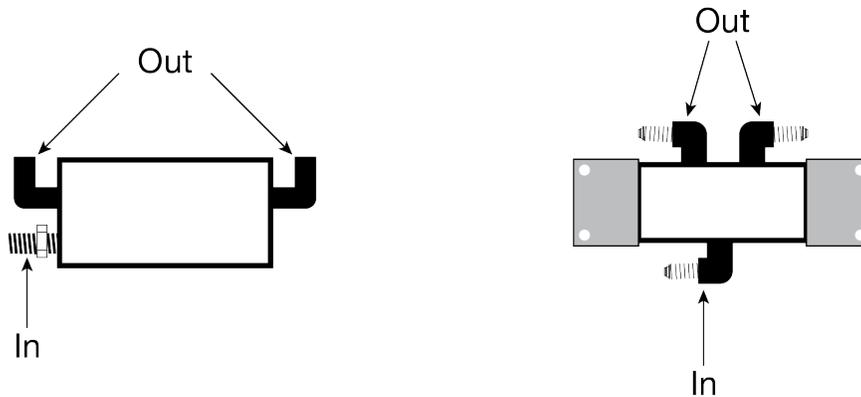


Not to scale. Not all components shown. Some components exaggerated for clarity.

To connect the Hydraulic Lines:

1. If the Platforms are not already engaged on their top Safety Locks, raise them now.
Refer to [Lift the Platforms Off the Bases](#) for additional information.
2. If the front and top of the Console are in place, remove them.
3. Find a good location for the Flow Divider on or near the bottom of the Console.

The following diagram shows two Flow Dividers. Your Lift could come with either model.



4. Attach an Elbow Hydraulic Fitting to one of the two Hydraulic Power Out ports on the Power Unit.
5. Locate the Medium Hydraulic Line.
6. Connect one end of the Medium Hydraulic Line to the Elbow Hydraulic Fitting you just installed on the Power Unit and the other end to the **input** connector on the Flow Divider. Finger tighten the connections.
7. Locate the Long and the Extra Long Hydraulic Lines.
8. Connect the Long and Extra Long Hydraulic Lines to the two **output** connectors on the Flow Divider. It does not matter which line connects to which output connector on the Flow Divider. Finger tighten the connections.
9. Route the Long Hydraulic Line through an opening in the bottom of the Console and to the Tee Connector on the Base **closest to the Console**. Finger tighten the connection.

The Short Hydraulic Lines come already connected to the appropriate Hydraulic Cylinders on one end and to the Tee Connector on the other end.

10. Connect the Extra Long Hydraulic Line through an opening in the bottom of the Console and to the Tee Connector on the Base **furthest from the Console**. Finger tighten the connection.
11. Once all connections have been made, use appropriate tools to fully tighten all of the finger-tightened connections.

Working with Compression Fittings and Tubing

Your Lift comes with ¼ inch, black, polyethylene Tubing (also called Poly-Flo® Tubing) that is used with Compression Fittings to create the Air Lines.

Important: Compression Fittings are not the same as Hydraulic Fittings; they work differently. ***This section covers Compression Fittings only.***

The components involved with Compression Fittings include:

- **¼ inch, black, polyethylene Tubing.** The Air Lines require multiple Tubing pieces. Create the Tubing pieces from the long roll of Tubing supplied with your Lift.
- **Elbow Compression Fittings.** The Air Lines use two Elbow Compression Fittings.
- **Straight Compression Fittings.** The Air Lines use four Straight Compression Fittings.
- **Tee Compression Fittings.** The Air Lines use five Tee Compression Fittings.
- **Nuts, Ferrules, Rods, and Threads.** Many of the connectors on the Elbow, Straight, and Tee Compression Fittings have a Nut, Ferrule, Rod, and Threads (see drawing below). The Nut holds the Tubing and Fitting together. The Ferrule compresses when you tighten the Nut on the Threads to make a secure connection. The Rod goes inside the Tubing so that nothing leaks out.

The following drawing shows the components of a connector on a Tee Compression Fitting.



Important: ***Ferrules can only be tightened once.*** When you tighten the Nut on the Threads, the Ferrule gets compressed; it literally changes shape and ***cannot*** be used again.

To connect Tubing to a Compression Fitting:

1. Push the Tubing through the Nut and over the Rod.
Do not push hard; you only need the Tubing to go a little way over the Rod. You cannot see the Ferrule at this point, but the Tubing must go through the Ferrule and over the Rod.
2. Slide the Nut on the Tubing ***away from the Fitting***, if the Nut is still on the Threads, unscrew it from the Threads and then slide it away from the Fitting. See the drawing above.
3. Slide the Ferrule over the Tubing, away from the Fitting and towards the Nut.
4. With the Nut and the Ferrule out of the way, push the Tubing further over the Rod until it stops.
5. Slide the Ferrule and the Nut back to the Threads on the Fitting.
The Ferrule goes around the Rod and under the Threads. The Nut goes onto the Threads.
6. Tighten the Nut.

Remember that the Ferrule can only be used once; do not tighten the Nut until everything is ready.

Connect the Air Lines

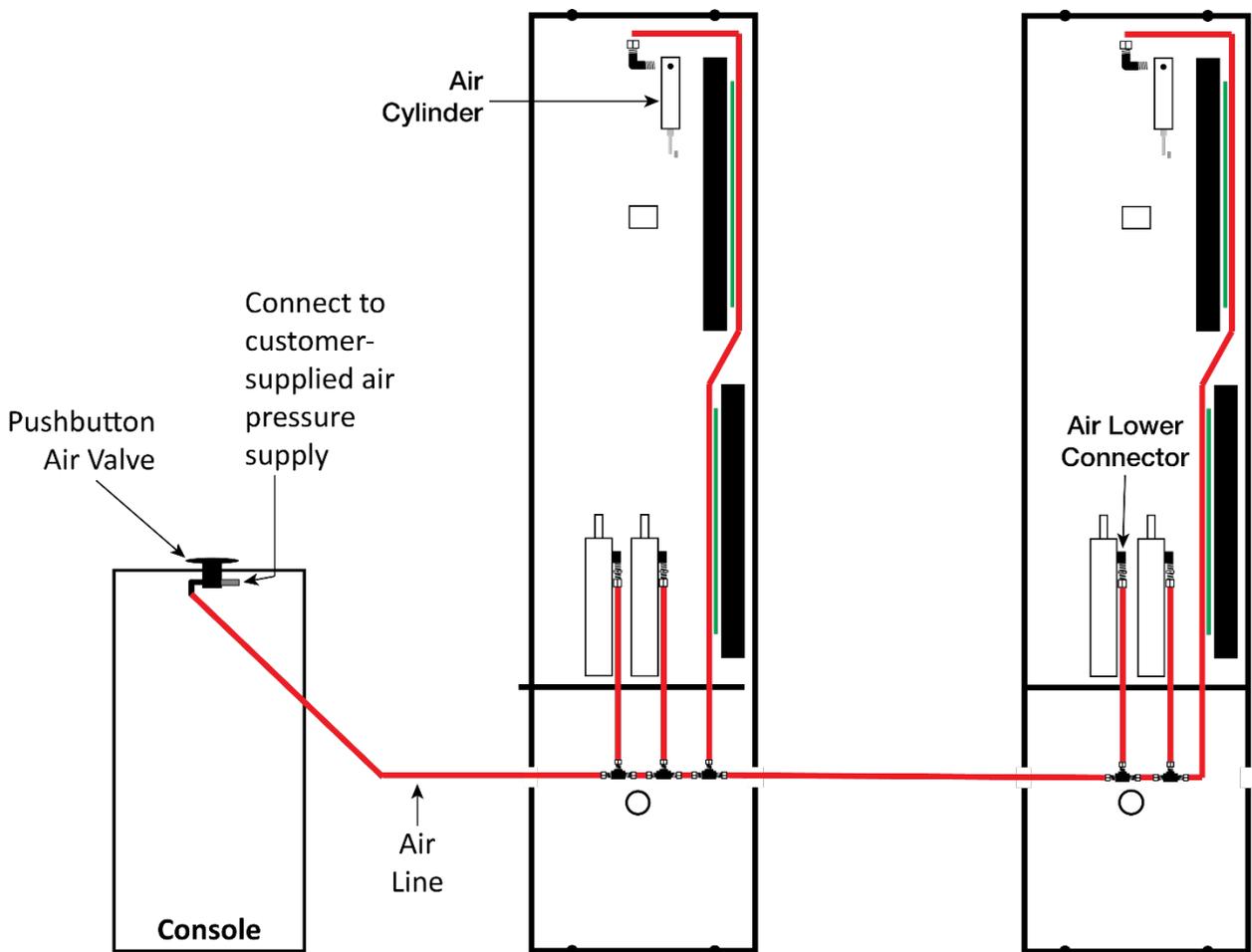
The MDS-6 Series Lifts use air pressure in two ways:

- It helps lower the Platforms. The Air Line connects to the Air Lower connector at the top of the Hydraulic Cylinder.
- It pushes the Lift off the Safety Locks so you can lower the Platforms. The Air Line also connects to the Air Cylinders.

It is the responsibility of the Lift owner to provide an air pressure supply (minimum 50 psi / 10 CFM, regulated to a maximum of 125 psi).

The air pressure supply is distributed to the Air Cylinders and the Air Lower connectors using .25 inch black, plastic Tubing (also called Poly-Flo® Tubing), which is supplied with the Lift. You need to cut the Tubing into appropriate lengths based on the distance between the components you are connecting.

The following drawing shows how to route the Air Lines from the Console to the components that require air pressure.



Not necessarily to scale. Not all components shown.

To connect the Air Lines:

1. Locate four Straight Tubing Fittings and connect them to the Air Lower Connectors on the Hydraulic Cylinders.
2. Locate four Elbow Tubing Fittings and connect them to the connectors on the Air Cylinders.
3. Locate the black plastic Tubing and the five Tee Fittings.
4. Cut the Tubing into appropriate lengths for your installation.



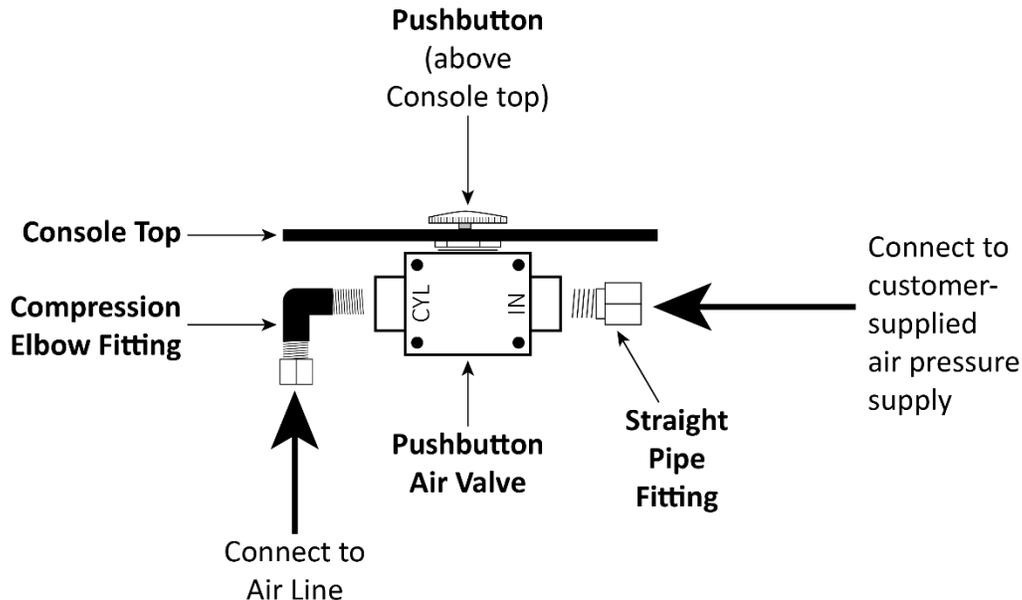
Tip

BendPak recommends planning out the path of the Air Line **before** you start cutting the Tubing.

5. Connect the Tubing lengths and Tee Fittings to the Tubing Fittings on the Air Cylinders and Hydraulic Cylinders.

To get to the Air Cylinders, the Tubing goes along the Scissor arms of the Lift. The Scissor arms have tubes through which you route the Tubing, which protects them as you raise and lower the Lift.

6. On the underside of the Console top, attach the male end of a Compression Elbow Fitting to the **CYL** connector on the Pushbutton Air Valve, then connect the final tubing length to the compression end of the Elbow Compression Fitting.
7. Also on the underside of the Console top, attach the male end of a Straight Expander Fitting to the **IN** connector on the underside of the Pushbutton Air Valve, then connect the customer-supplied air pressure to the other end of the Straight Expander Fitting.



Drawing not necessarily to scale. Not all components shown. Pushbutton is above the Console top, all other components are under the Console top.

Contact the Electrician

As mentioned previously, there are certain installation tasks that require a certified Electrician.

⚠ DANGER All wiring **must** be performed by a licensed, certified Electrician. If someone who is not a certified Electrician attempts these tasks, they could be electrocuted, resulting in serious injury or death.

The Electrician needs to:

- **Attach a Power Cable with an appropriate plug.** The Power Unit needs to connect to an appropriate power source; it comes with a pigtail coming out of the Electrical Box, but without a longer power cable or a plug attached. The Electrician needs to remove the pigtail and then connect a power cable with a plug that is appropriate for your location (220 VAC plugs are different in different parts of the world). ***This power cable and plug is not provided with the Lift.***
- **Install a Power Disconnect Switch.** Ensures you can quickly and completely interrupt electrical power to the Lift in the event of an electrical circuit fault, emergency situation, or when equipment is undergoing service or maintenance. You must put it within sight and easy reach of the Lift operator. Refer to **Install a Power Disconnect Switch** for more information.
- **Install a Thermal Disconnect Switch.** Ensures the equipment shuts down in the event of an overload or an overheated motor. Refer to **Install a Thermal Disconnect Switch** for more information. ***The motor on the Power Unit is not thermally protected.***

The Electrician is responsible for providing:

- an appropriate power cable and plug for connecting to the power source
- a Power Disconnect Switch
- a Thermal Disconnect Switch (the Power Unit's motor is **not** thermally protected)

Refer to **Wiring Diagram** for additional wiring information.

Additional information is supplied in the section describing these tasks.

Connect and Prepare the Power Unit

The Power Unit comes assembled from the factory. You need to attach it to the back of the Console (described in [Set Up and Anchor the Console](#)) and then connect it properly, described in this section.

The Power Unit is 220 VAC at 50 Hz, 1 Ph or 208-230 VAC at 60 Hz, 1 Ph.

⚠ DANGER All wiring **must** be performed by a licensed, certified Electrician. If someone who is not a certified Electrician attempts these tasks, they could be electrocuted, resulting in serious injury or death.

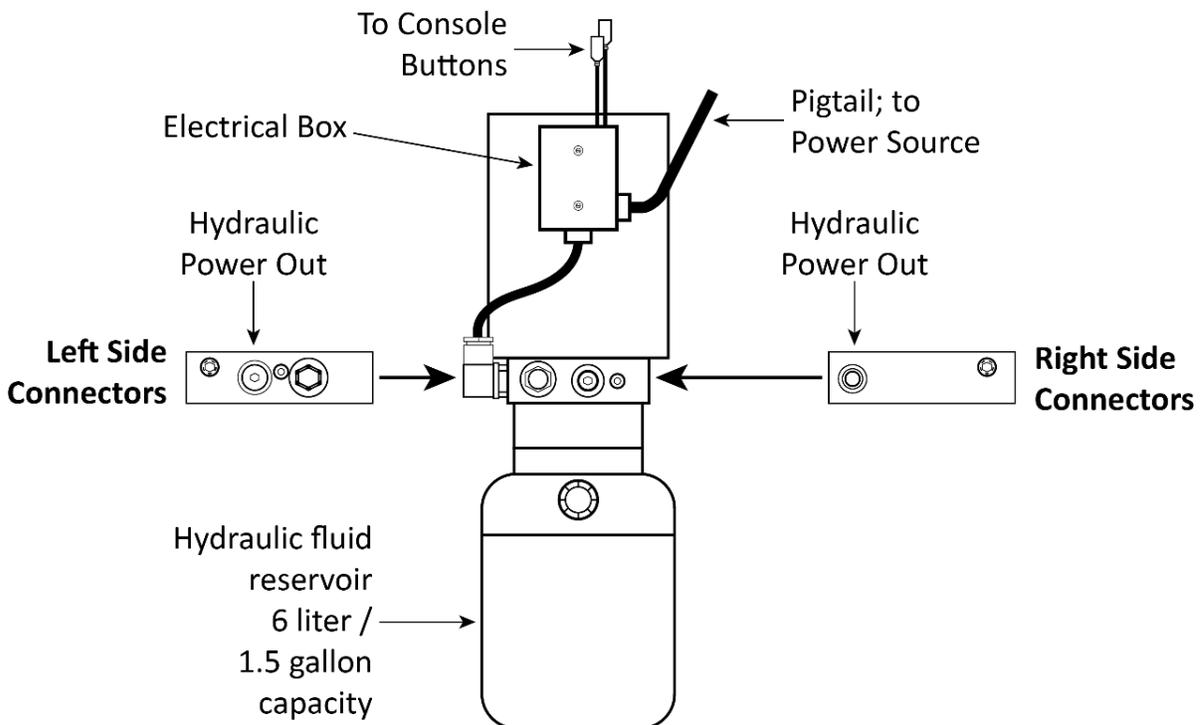
Refer to [Wiring Diagram](#) for wiring information.

⚠ CAUTION The Power Unit's motor is **not** thermally protected.

The Power Unit has multiple connections:

- **Hydraulic System.** The Medium Hydraulic Line connects one of the two Hydraulic Power Out ports on the Power Unit to the Flow Divider (and eventually to the Hydraulic Cylinders).
- **Power Source.** The Power Unit connects to an incoming power source. A licensed, certified Electrician is required to make this connection.
- **Controls.** The Power Unit connects to the controls on the top of the Console (the Raise and Lower buttons).
- **Hydraulic Fluid reservoir.** The Power Unit **requires** Hydraulic Fluid.

The following drawing shows the Power Unit.



To connect and prepare the Power Unit:

1. Remove the front cover of the Console if it is currently in place.
2. For the Raise and Lower buttons on the Console, the wiring comes from the factory connected to the appropriate button. Simply connect them appropriately to the Console.
3. For the connection to the Hydraulic System, the Power Unit should already be connected to the **IN** connector on the Flow Divider via the Medium Hydraulic Line.

If it is not, attach an Elbow Hydraulic Fitting to a Hydraulic Power Out connector on the Power Unit, connect the Medium Hydraulic Line to this Elbow Hydraulic Fitting, and then connect the other end of the Medium Hydraulic Line to the **IN** (input) connector on the Flow Divider.

4. For the power source, the Electrician needs to locate the Pigtail coming out of the Electrical Box, open the Electrical Box, remove the Pigtail, and then wire a power cord (with appropriate plug) **inside** the Electrical Box.

This power cord and plug are **not** supplied with the Lift.

Refer to **Wiring Diagram** for proper wiring information.

⚠ DANGER All wiring **must** be performed by a licensed, certified Electrician. If someone who is not a certified Electrician attempts these tasks, they could be electrocuted, resulting in serious injury or death. Do not perform **any** maintenance or installation on the Lift without first making sure that main electrical power has been disconnected from the Lift and **cannot** be re-energized until all procedures are complete.

Important electrical information:

- Improper electrical installation can damage the Power Unit motor; this damage is not covered under warranty.
 - Use a separate circuit breaker for each Power Unit.
 - Protect each circuit with a time-delay fuse or circuit breaker. For a 220 VAC, single phase circuit, use a 25 amp or greater fuse.
5. For the Hydraulic Fluid reservoir, you need to fill it with approved Hydraulic Fluid.

The Power Unit's Hydraulic Fluid reservoir must be filled with 1.5 gallons / 6 liters of Hydraulic Fluid or automatic transmission fluid **before** you begin operation. When you receive it, the reservoir is empty; the Power Unit will not work correctly until it is filled with approved fluids.

Approved Hydraulic Fluids are any general purpose ISO-32, ISO-46, or ISO-68 hydraulic oil or approved automatic transmission fluids such as Dexron III, Dexron VI, Mercon V, Mercon LV, Shell Tellus S4 / S3 / S2, or any synthetic multi-vehicle automatic transmission fluid.

⚠ WARNING Do not run your Power Unit without Hydraulic Fluid; you will damage it.

Install a Power Disconnect Switch

 **WARNING** A Power Disconnect Switch is **not** provided with this equipment.

A Power Disconnect Switch is a National Electrical Code (NEC) requirement. They are designed to interrupt main electrical power in the event of an electrical circuit fault, emergency situation, or when equipment is undergoing service or maintenance.

Make sure to install a Power Disconnect Switch that is properly rated for the incoming power source.

Your Power Disconnect Switch must be readily accessible and installed so that it is in easy reach of the operator or in their line of sight. The Power Disconnect Switch must be clearly marked to indicate its purpose.

If you are not clear where to put the Power Disconnect Switch, consult with your Electrician.

 **DANGER** Installing a Thermal Disconnect Switch **must** be performed by a licensed, certified Electrician.

Have the Electrician select a **UL-listed** Power Disconnect Switch.

Install a Thermal Disconnect Switch

 **WARNING** The motor on the Power Unit supplied with your Lift has no thermal overload protection.

Have the Electrician connect a motor Thermal Disconnect Switch or overload device that will make sure the equipment shuts down in the event of an overload or an overheated motor.

 **DANGER** Installing a Thermal Disconnect Switch **must** be performed by a licensed, certified Electrician. Do not perform **any** maintenance or installation on the Lift without first making sure that main electrical power has been disconnected from the Lift and **cannot** be re-energized until all procedures are complete.

High running amps that exceed the motor's full load amps (FLA) rating may result in permanent damage to the motor.

BendPak strongly recommends you **not** exceed the rated duty cycle of the motor.

Lubricate the Lift

There are 10 lubrication points on the Lift:

- **Four lubrication points that take straight grease fittings.** All four are M6 x 1.0 straight grease fittings.
- **Six lubrication points that take 45° elbow grease fittings.** All six are M6 x 1.0 45° elbow grease fittings.

Put a small amount of white lithium grease or similar on each lubrication point before you use the Lift and monthly after putting the Lift into service.

Add the Ramps

The MDS-6EXT and MDS-6LP both come with four Ramps: two Drive-Up Ramps and two Drive-Off Ramps. The flush-mount versions do not come with Ramps.

The two Drive-Up Ramps attach to the Rear of the Lift; the two Drive-Off Ramps attach to the Front of the Lift.

All four Ramps come with pins that fit into holes in the Base. To put a Ramp into position, put the pins into the holes in the Base and make sure they are correctly seated.

Anchor the Console

If you have not yet anchored the Console, you must do so now.

Refer to [Set Up and Anchor the Console](#) for instructions.

Perform an Operational Test

Before putting your Lift into normal operation, you need to raise and lower it a few times. This will help you get a feel for how to operate it, ensures it is working correctly, and helps get any residual air out of the Hydraulic System.

Important: The installation of the Lift is not complete until the Lift passes an Operational Test.



Tip

Residual air in the Hydraulic System can cause the Lift to shake, move erratically, or squeak; this is normal. If it happens to you, do not worry; it will go away quickly as the Hydraulic System is self-bleeding.

A Vehicle on the Lift is not required for the Operational Test, but it is recommended.

To test your Lift:

1. Check the area around and above the Lift for obstructions; move them if you find any.
2. Press and hold **Raise**. The Platforms start rising.
3. When the Platforms go past the first Safety Lock (you can hear the mechanism click as it passes), release **Raise**. The Platforms stop rising.
4. Press and hold **Lower**. The Platforms lower onto the Safety Lock you just passed.
5. To fully lower the Platforms, press and hold the **Air Assist Button** (to disengage the Safety Lock), then press and hold **Lower**.
6. When the Platforms get to the ground, hold **Lower** for a couple of more seconds to make sure both Platforms are fully lowered, then release **Lower**.
7. Wait for one minute.

 **WARNING** The Power Unit cannot be run continuously.

8. Repeat the process, this time raising the Lift higher and then lowering it.
9. If the Lift is working without shaking, moving erratically, or squeaking, it is ready for operation.

If the Lift is shaking, moving erratically, or squeaking, repeat the procedure one more time.

If you continue to have issues, refer to the [Troubleshooting](#) section for assistance.

Final Checklist Before Operation

Make sure these things have been done before using your Lift:

- Review the **Installation Checklist** to make sure all steps have been performed.
- Make sure the Power Unit is getting power from the power source.
- Check the Power Unit's Hydraulic Fluid reservoir; it must be full of approved Hydraulic Fluid or automatic transmission fluid. **You can harm the motor by running it without enough fluid.**
- Check the Hydraulic System for leaks.
- Check to see that all Anchor Bolts are correctly torqued.

Leave the Manual with the Owner/Operator

Make sure to leave the *Installation and Operation Manual* with the owner/operator so that it is available for anyone who is going to use the Lift.

Operation

This section describes how to operate your Lift.

 **WARNING** Always use care when you are around the Lift. When it is in a lowered position, be careful not to trip over it. When it is raised, be careful not to bang into a Ramp or a Platform. **When the Lift is moving, keep all people, animals, and objects at least 30 feet away from it.**

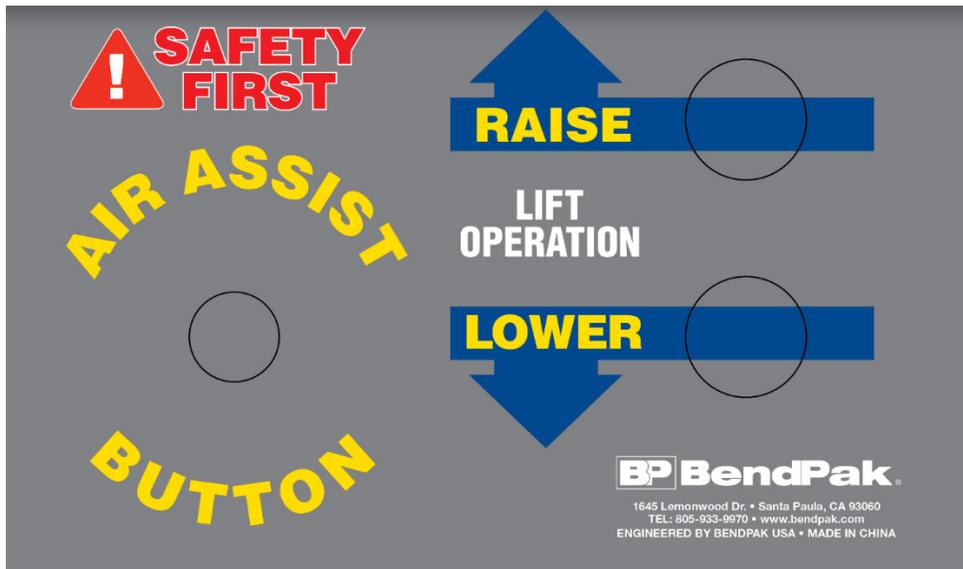
Lift Operation Safety

Before you raise or lower a Vehicle using your Lift, do the following:

- **Check the Lift.** Check the Lift for any missing, heavily worn, or damaged parts. Do not operate the Lift if you find any issues; instead, take it out of service, then contact your dealer, email techsupport@bendpak.com, visit bendpak.com/support, or call **(800) 253-2363**, extension 196.
- **Check the area.** Check the area around the Lift for obstructions; anything that might block the Lift. Do not forget to check **above** the Lift. If you find an obstruction, move it out of the way. Do not allow people or animals within 30 feet of the Lift while it is in motion.
- **Check the operators.** Make sure everyone who is going to operate the Lift has been trained in its use, has read the labels on the unit, and has read the manual. Only the operator at the Console should be within 30 feet of the Lift when it is in motion.
- **Check for safety.** Make sure everyone who is going to be walking near the Lift is aware of its presence and takes appropriate safety measures. Only put Vehicles on the platform. **When raising the Lift, do not leave it until it is positioned on a Safety Lock.** When lowering the Lift, do not leave it until it is fully lowered. Do not allow children to operate the Lift. Do not allow anyone under the influence of drugs, alcohol, or medication to operate the Lift.
- **Check the Vehicle.** Never exceed the Lift's weight rating. Do not allow people inside a Vehicle you are going to raise. Make sure the Vehicle is not overbalanced on either end. Make sure you know and use the manufacturer's recommended lifting points for the Vehicle. Never raise just one side, one corner, or one end of a Vehicle.

The Console

Operation of the Lift is controlled via the Console.



The controls on the Console are:

- **Raise** button. Raises the Platforms.
- **Lower** button. Lowers the Platforms.
- **Air Assist** button. Releases the Safety Locks so the Platforms can be lowered. If you do not press the Air Assist button when pressing the Lower button, the Lift will stop at the closest Safety Lock.

Raising a Vehicle

This section describes how to position a Vehicle on the Platforms and raise it.

To raise a Vehicle:

1. Make sure both Platforms are fully lowered.
2. Drive the Vehicle onto the Platforms.

CAUTION When driving a Vehicle onto or off of the Platforms, try to keep the wheels in the middle of the Platforms.

3. Put the Vehicle in park, put on the parking brake, and turn off the engine.

If the Vehicle is a manual transmission, put it into first gear before turning it off. You do not want the Vehicle moving while it is raised on the Lift.

4. Get out of the Vehicle and make sure the wheels are securely on the Platforms.

Only raise a Vehicle if the wheels are securely on the Platforms.

If any part of any wheel is not securely on the Platform, carefully drive the Vehicle back off the Lift and then drive it back on, making sure to keep the wheels in the middle of the Platforms.

5. Walk completely around the Vehicle and make sure there are no obstructions or any other issues that will interfere with the raising of the Lift. If there are, fix them before raising the Vehicle.
6. At the Console, press and hold the **Raise** button.

7. Watch the Vehicle and the Lift as they rise.

If the Lift becomes unstable or the Vehicle begins moving, release the **Raise** button immediately and carefully lower the Lift back down to the ground.

8. When the Platforms are slightly past the desired height, release the **Raise** button.

The Lift stops rising.

9. Press the **Lower** button briefly to move the Lift down onto the most recently passed Safety Lock.



Tip

If you move the Lift too far past a Safety Lock, it will not engage when you press **Lower** briefly. If this happens, move the Lift back up again, going a little less past the Safety Lock, and then lower it back down onto the Safety Lock.

About Safety Locks

Each of the two Platforms on your Lift comes with its own Safety Lock mechanism. Safety Locks hold a raised Vehicle in place once the Safety Locks are engaged.

Safety Locks serve two important functions:

- **Safety.** Safety Locks hold the Platforms in place. Once engaged on Safety Locks, the weight of the Vehicle pressing down holds the Platforms in place. If the power goes out, the Safety Locks hold the Platforms, and anything on them, in place.

 **WARNING**

Although rare, it is possible for Hydraulic Fluid in the Hydraulic Cylinders to leak, causing the Lift to slowly come down if it is not engaged on its Safety Locks. ***When you are operating your Lift, only leave it on a Safety Lock or fully lowered.***

- **Adjustable height.** Having multiple Safety Lock positions means you can raise the Vehicle to just the right height for the work you are performing.

Lowering a Vehicle

This section describes how to lower a Vehicle from a raised position.

To lower a Vehicle:

1. Check the items listed in **Lift Operation Safety**.

If you find any issues, resolve them before lowering the Vehicle.

2. At the Console, press and hold the **Raise** button for a second or two.

This moves the Lift off of the Safety Locks.

3. Press and hold the **Safety Lock Release** button, then press and hold the **Lower** button.

If you do not press and hold the Safety Lock Release, the Lift will stop at the next Safety Lock.

4. When the Platforms are fully lowered, release both buttons.

5. Carefully drive the Vehicle off the Platforms.

Maintenance

 **DANGER** Before performing any maintenance, make sure the Lift is completely disconnected from power and **cannot** be re-energized until all maintenance is complete. If the power is re-energized during maintenance, you or someone else could be electrocuted. BendPak strongly recommends using your Power Disconnect Switch during maintenance.

To maintain your Lift:

- **After one hour of use:** Check the Hydraulic Fluid levels. Refill if low.
- **Daily:** Keep the Lift clean. Wipe up any spills, clean any dirt.
- **Daily:** Make a visual inspection of all moving parts and check for damage or excessive wear. If you find any damaged or worn parts, take the Lift out of service until they are replaced.
- **Daily:** Make sure the Safety Locks are in good operating condition. If you find that the Safety Locks are damaged or excessively worn, take the Lift out of service until they are replaced. **Do not use your Lift if the Safety Locks are damaged or excessively worn.**
- **Weekly:** Check all controls to make sure they are functioning normally.
- **Weekly:** Check all labels on the unit. Replace them if they are illegible or missing.
- **Monthly:** Lubricate the grease fittings. We recommend using white lithium grease or similar.
- **Monthly:** Check the Hydraulic Fluid levels. Refill if low.
- **Every two months:** Check all Anchor Bolts to make sure they are tight. If not, tighten them.

 **WARNING:** Do not operate your Lift if you find issues; instead, take the Lift out of service, then contact your dealer, email techsupport@bendpak.com, visit bendpak.com/support, or call **(800) 253-2363**, extension 196.

Troubleshooting

This section describes how to troubleshoot your Lift.

Note: If your Lift is not functioning correctly, you must take it out of service until it is fixed.

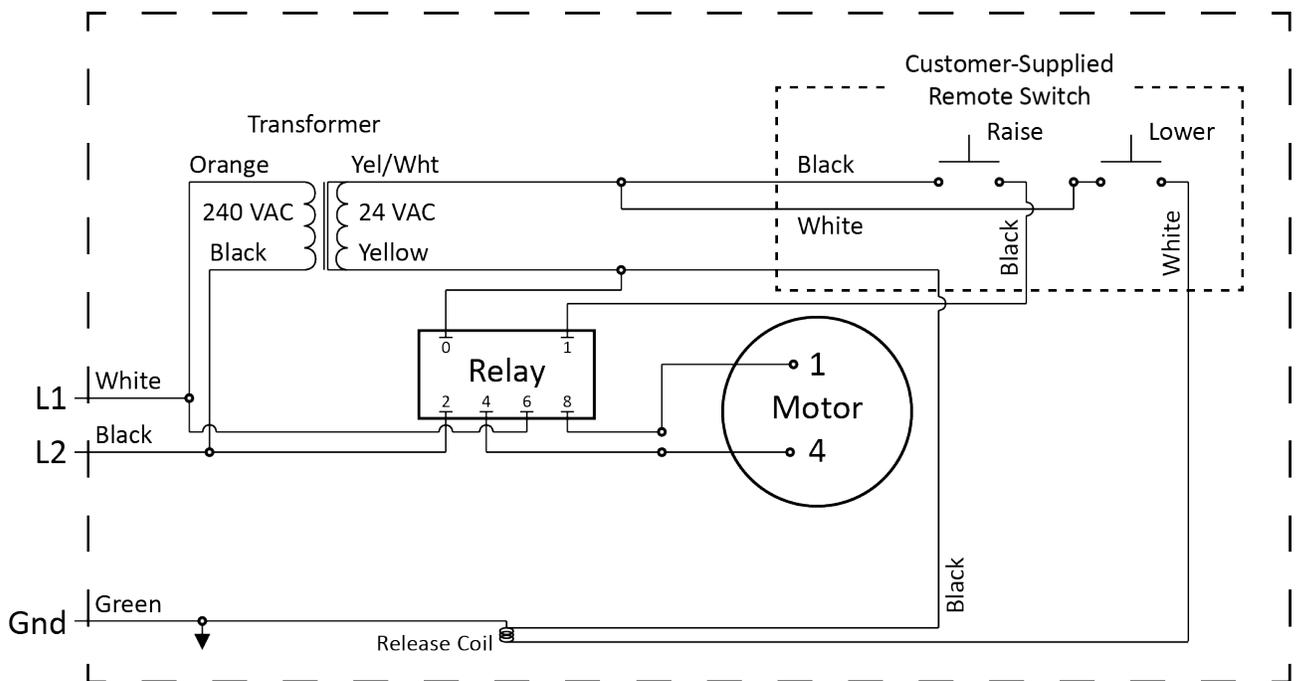
Important: All repair work **must** be done by qualified personnel.

Issue	Action to Take
Platforms move erratically or squeak when in use.	Move the Platforms up and down a few times, with a break between each; there could be residual air in the Hydraulic System. This is called bleeding the cylinders.
Platforms do not go up or down.	Make sure the Power Unit is connected to an appropriate power source. Make sure none of the Hydraulic Lines are pinched or leaking. Make sure there is sufficient Hydraulic Fluid in the reservoir on the Power Unit.

Hydraulic Fluid is old or dirty.	Replace the dirty fluid with clean, approved Hydraulic Fluids, such as Dexron III, Dexron VI, Mercon V, Mercon LV, Shell Tellus S4 / S3 / S2, or comparable.
Platforms make odd noises when in use.	Lubricate hinge points using white lithium grease.
Platforms are slowly lowering on their own.	Make sure both Platforms are on Safety Locks. Only leave the Lift fully lowered or engaged on Safety Locks.

If you continue to have problems with your Lift, take the Lift out of service, then contact your dealer, visit bendpak.com/support, email techsupport@bendpak.com, or call **(800) 253-2363**, extension 196.

Wiring Diagram



Labels

A

B

C

D

E

F

G

H

I

J

K

WARNING

DRIVE CAR COMPLETELY OVER LIFT

NEVER OVERLOAD LIFT
Check for 1" minimum clearance between car and lift before raising.

DO NOT park on or load lift in a lift lowered position or damage may result.

SAFETY IN LOCKED POSITION
Release Car Brakes (Lock for entry guard lock block)

SAFETY IN UNLOCKED POSITION
Release Car will lock for elevated and exit lock for lowered.

L

CAUTION

Power Unit: Secure placard near lift controls.

Lift Control Console: Secure placard in an accessible location.

CAUTION

Lift to be used by trained operator only.

CAUTION

Authorized personnel only in lift area.

CAUTION

Use vehicle manufacturer's lift points.

CAUTION

Always use safety stands when removing or installing heavy components.

NOTICE

Read operating and safety manuals before using lift.

NOTICE

Proper maintenance and inspection is necessary for safe operation.

NOTICE

Do not operate a damaged lift.

The messages and photographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.

Feedback for the development and validation of these lifts was provided by the Automotive Lift Institute, 10 Busse St. Cortland, NY 13045.

Equipment labels may be obtained from the original lift manufacturer and ALI member companies.

They are protected by copyright.

www.autlift.org
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M

WARNING

This power unit consists of a hydraulic pump that is capable of developing pressure in excess of 5000 psi (345 bars). It produces rated values in excess of 5000 psi (345 bars) and is not to be used for any other purpose. Only a trained operator is authorized to adjust the pressure. Changes to the output pressure may render the power unit incompatible with pressure limitations of other components in the hydraulic circuit. This may cause catastrophic failure of those components, and could result in property damage, serious personal injury, or death.

ADVERTENCIA

Este control hidráulico contiene una bomba capaz de producir una presión en exceso de 5000 psi (345 bars). Este equipo produce valores en exceso de 5000 psi (345 bars) y no debe utilizarse para ningún otro propósito. Solo un operario capacitado puede hacer modificaciones a la salida de descarga.

ADVERTENCIA: Cambios a la salida de presión, podrían hacer la bomba incompatible con las limitaciones de presión de otros componentes en el circuito hidráulico. Esta incompatibilidad podría producir un daño a la propiedad, o lesiones personales o muerte.

WARNUNG

Dieses hydraulische Aggregat besteht aus einer Pumpe, welche einen Druck von über 5000 psi (345 bar) aufbauen kann. Es erzeugt Werte über 5000 psi (345 bar) und ist nicht für andere Zwecke zu verwenden. Nur ein geschulter Bediener darf den Druck einstellen. Änderungen des Drucks können das Aggregat mit anderen Komponenten des hydraulischen Schaltkreises unkompatibel machen. Dies kann zu katastrophalem Versagen dieser Bauteile führen und zu Sachschaden, schweren Personenschaden oder zum Tod.

AVERTISSEMENT

Cette soupape à l'huile est capable de produire une pression de plus de 5000 psi (345 bars). Elle produit des valeurs en excès de 5000 psi (345 bars) et n'est pas destinée à d'autres fins. Seul un opérateur qualifié peut effectuer des réglages de la soupape de sortie.

AVERTISSEMENT: Tout changement de la valeur de la pression de sortie peut rendre incompatible l'utilisation de cet équipement avec les autres composants du circuit hydraulique. Cette incompatibilité peut entraîner des dommages matériels, ainsi que des blessures graves ou la mort.

N

WARNING

Always allow a minimum 2-second delay between motor starts. Failure to comply may cause switch and/or motor burnout. This could cause serious damage to the equipment and/or personal property.

RISK OF EXPLOSION

This equipment has internal arcing or sparking parts which should not be exposed to flammable vapors. THIS EQUIPMENT SHOULD BE LOCATED AT LEAST 460 MM (18 INCHES) ABOVE THE FLOOR.

All wiring must be performed by a certified electrician only. It is the responsibility of the electrician to ensure that all field wiring systems comply with both NEC recommendations and all additional electrical codes.

P

CAUTION

(1) MOTOR NOT PROTECTED - EXTERNAL OVERHEAT PROTECTION IN ACCORDANCE WITH CE CODE, PART 1, SHALL BE PROVIDED.
(2) MINIMUM CIRCUIT AMPACITY OF CONDUCTOR IS 30A

PRECAUCIÓN

(1) MOTOR NO ESTÁ PROTEGIDO - SE PROVEERÁ PROTECCIÓN CONTRA SOBRECALENTAMIENTO EXTERNO DE CONFORMIDAD CON EL CÓDIGO CE, SECCIÓN 1.
(2) AMPACIDAD MÍNIMO DEL CONDUCTOR DEL CIRCUITO ES 30A

ATTENTION

(1) MOTEUR NON PROTEGE - PROTECTION EXTERIEURE CONTRE LA SURCHAUFFE DOIT ETRE ASSUREE CONFORMEMENT AU CODE CE PREMIERE PARTIE.
(2) COURANT ADMISSIBLE MINIMAL DE LA DERIVATION 30A

**Maximum Run Time: 100 Seconds.
Off Time: 500 Seconds.
Total: 600 Seconds.**

If connected to a circuit protected by fuses use time-delay fuse Marked D

Si está conectado a un circuito protegido por fusibles, utilice fusibles de acción retardada, tipo D

Si connecté à un circuit protégé par fusibles utilisez fusible temporisé Marqué D

O

SKU NO: 5585280	Ranger		TENV
HP: 2.0	I.D. NO: ST-001-PROTO	VOLT: 208	V: 240
HZ: 50/60	RPM: 2880/3450	KVA: L	FLA: 15
PH: 1	NOT THERMALLY PROTECTED	EFF%: 80	SFA: 1
FRAME: 56	DUTY: 5 MIN	DES: 56	
TYPE: MAX. AMB. °C: 40		PRV: 2850	
DATE: INS CLASS: F		CODE:	

WARNING: GROUNDING - Failure to connect the motor frame to equipment grounding conductor by using the grounding cord, green wire, or green wire provided, may result in serious electric shock.

CE, CCC, MADE IN CHINA

Q

CERTIFIED AUTOMOTIVE LIFT

ALI CERTIFIED
INDEPENDENTLY TESTED AND VALIDATED

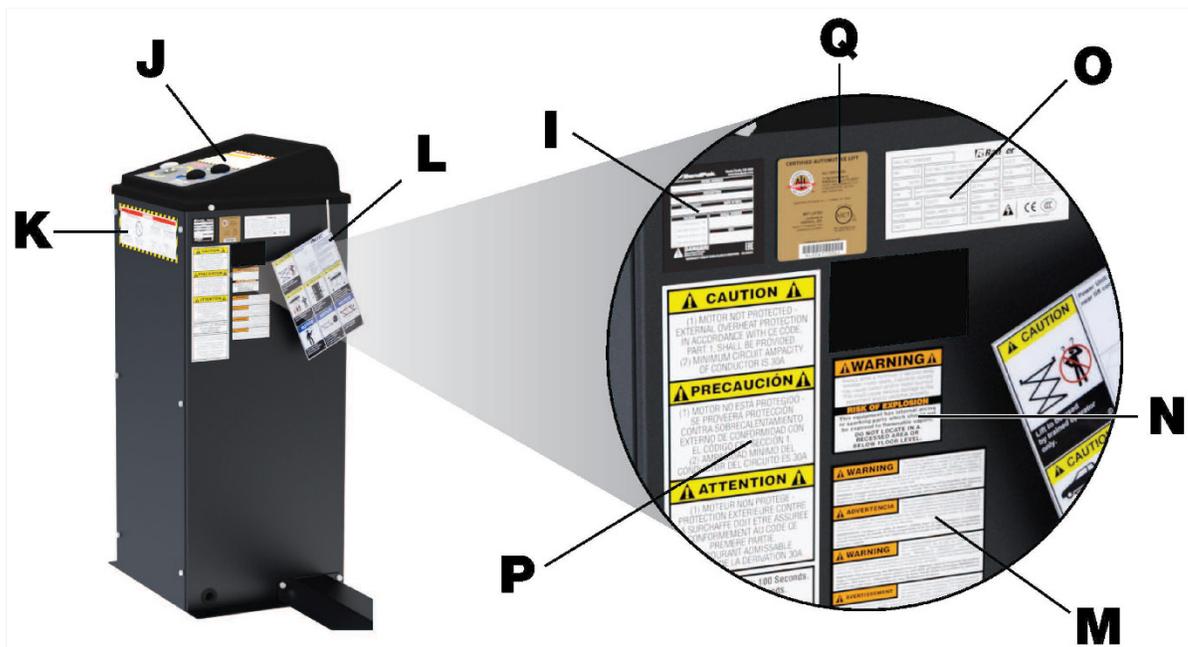
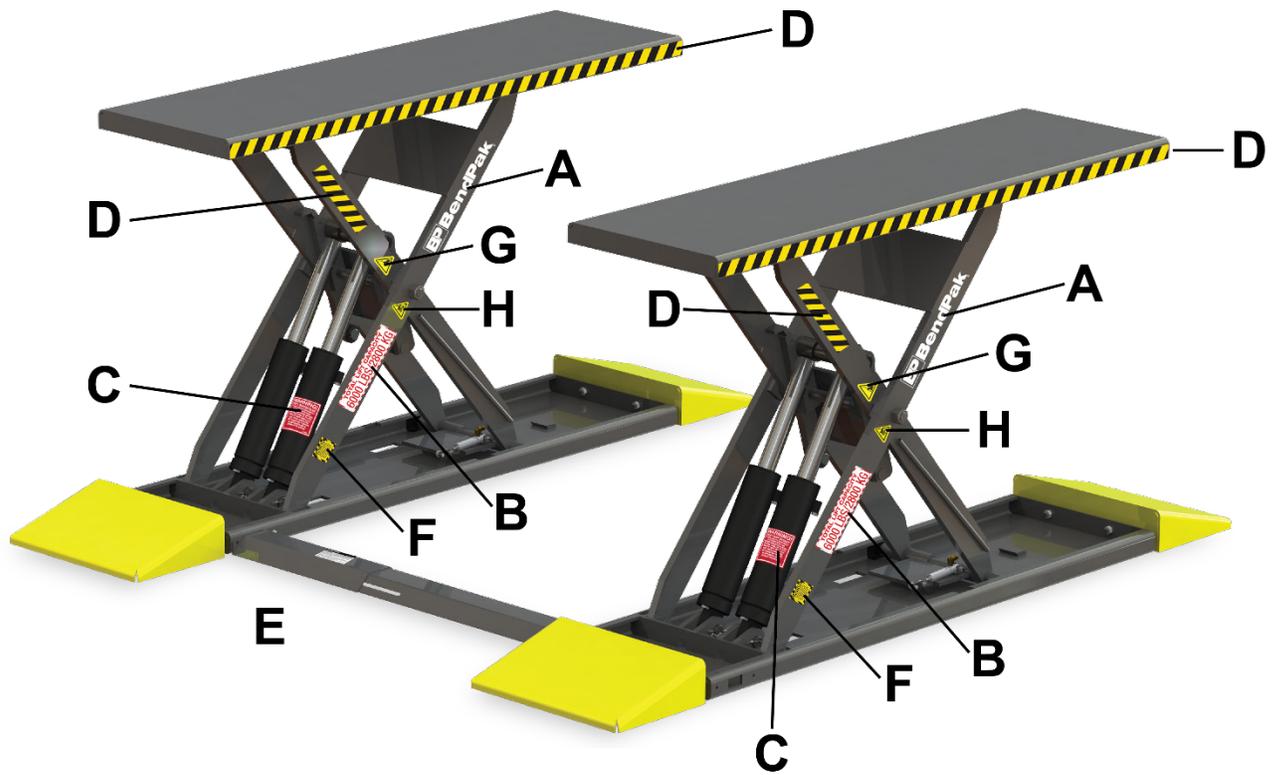
To the provisions of ANSI/ALI ALCVT-2011 SAFETY REQUIREMENTS FOR CONSTRUCTION, TESTING AND VALIDATION

Automotive Lift Institute, Inc. | Cortland, NY 13045

MET LISTED
Conforms to ANSI/UL 201 SAFETY STANDARD FOR GARAGE EQUIPMENT

MET LISTED
MET Laboratories, Inc. BALTIMORE, MD 21230

Certification Label Serial Number:
AL00617000J

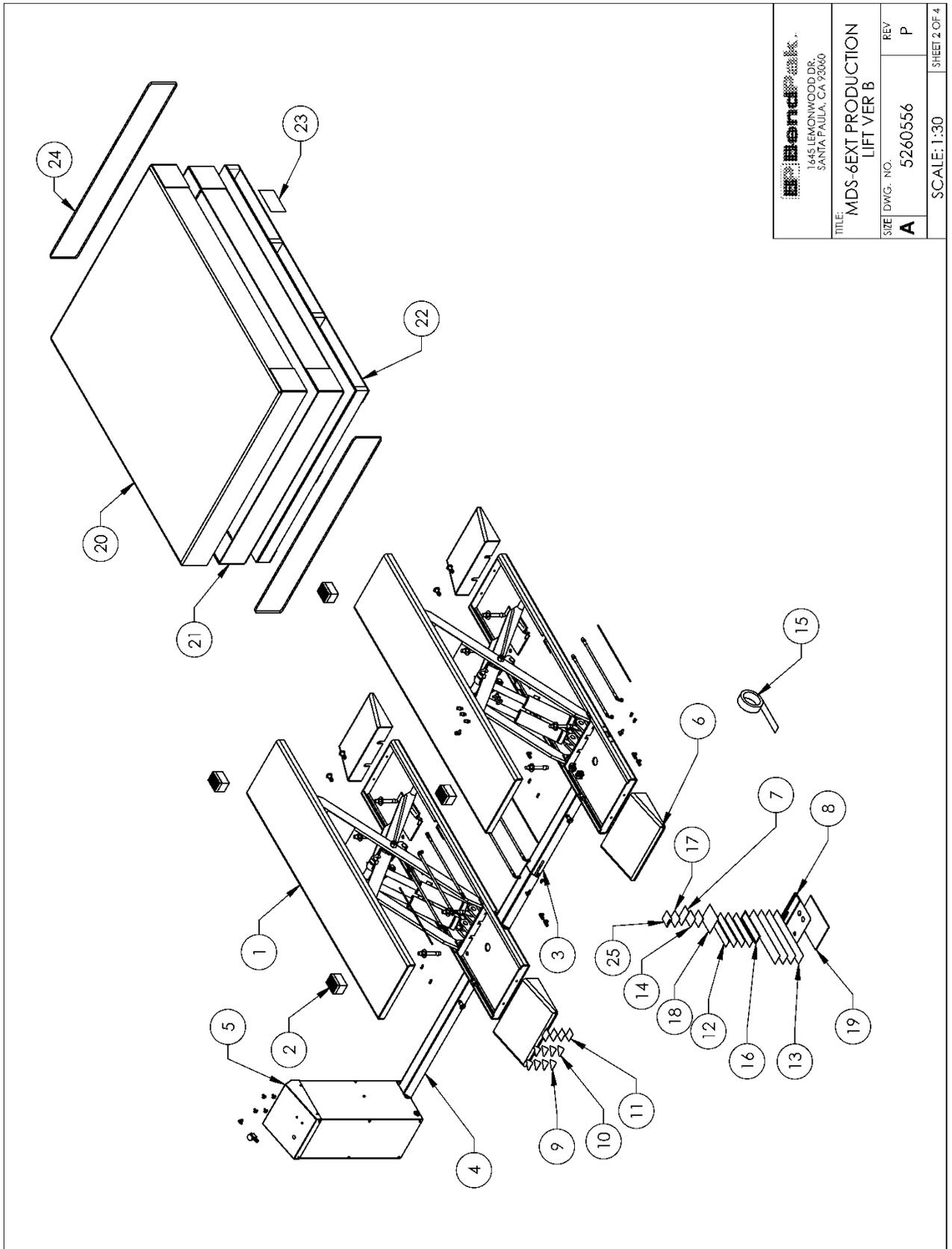


Parts Diagrams

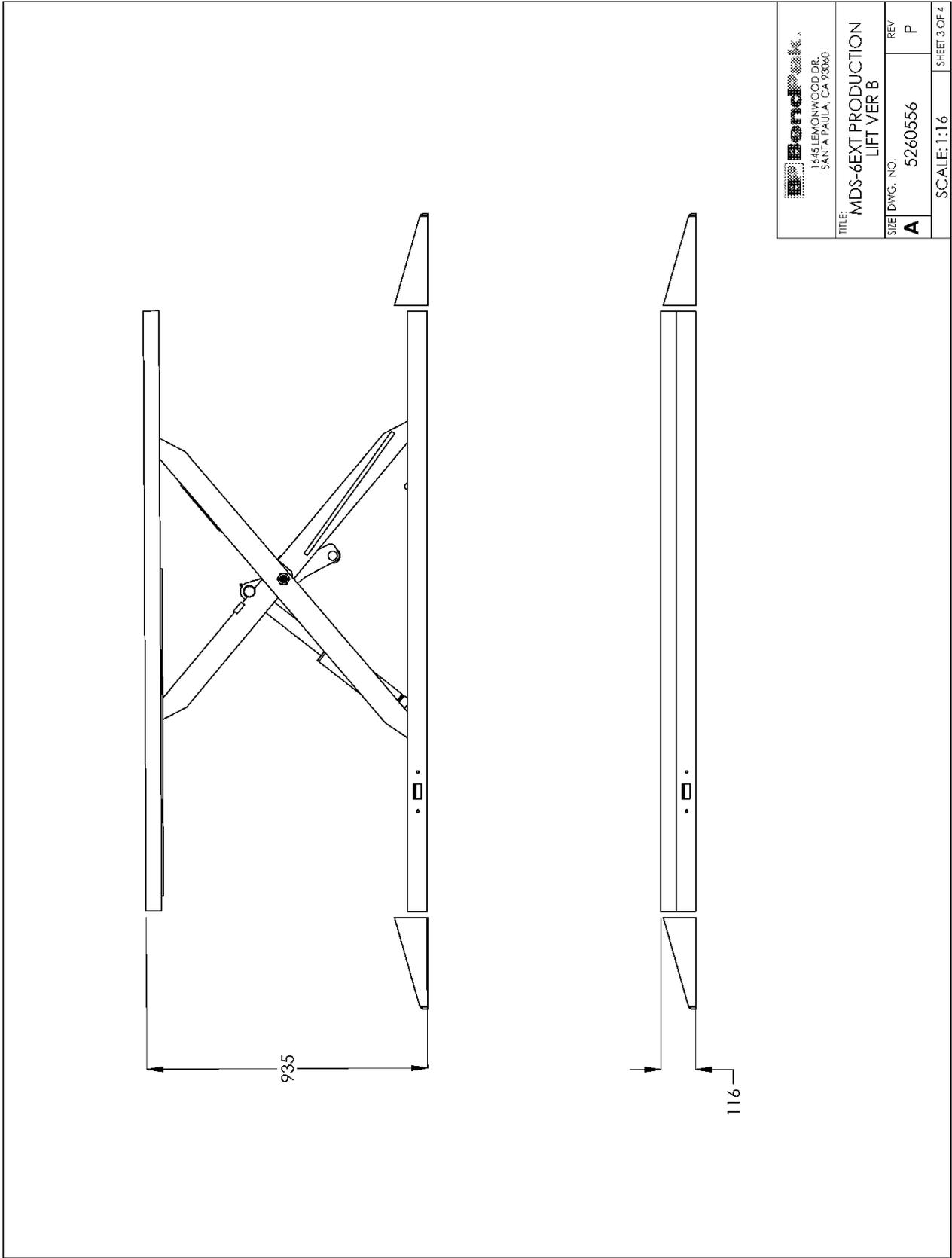
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1	5215457	MDS-6EX RAMP ASSEMBLY	2	K
2	5250054	MDS-6EXT PARTS BOX	1	G
3	5601099	MDS-6EXT/TP INNER FLOOR TROUGH WELDMENT	1	C
4	5601098	MDS-6EXT/TP OUTER FLOOR TROUGH WELDMENT	1	C
5	5215780	SHORT POWER UNIT CONSOLE ASSEMBLY	1	B
6	5601106	MDS-6EXT/TP DRIVE UP RAMP WELDMENT-SHORT	4	D
7	5905940	PRODUCT DATA LABEL	1	--
8	5905631	MDS-6K CONSOLE PANEL WARNING LABEL	1	--
9	5905179	WARNING/CRUSH POINT LABEL	4	--
10	5905178	WARNING/LUBE POINT LABEL	4	--
11	5905307	CAUTION CAPACITY SCISSOR LIFT	4	--
12	5905308	MDS-6K CAPACITY LABEL	4	--
13	5905204	RENDPAK LABEL	4	--
14	5905176	WARNING TO PROLONG LIFE	2	--
15	5930409	BLACK AND YELLOW HAZARD 2" X 10"	1	--
16	5930499	MDS-6K WARNING DRIVE OVER LABEL	1	--
17	5905951	2017 SERIAL TAG-B-5905951 VERTICAL-NO BLEED	1	--
18	5905465	MANUFACTURER LABEL	1	--
19	5900030	INSTALLATION AND OPERATION MANUAL MDS-6EXT / MDS-6EXTIF / MDS-6LP / MDS-6LPF	1	--
20	5781058	MDS-6EXT CARRIER BOX- TOP	1	A
21	5781038	MDS-6EXT CARRIER BOX- BOTTOM	1	A
22	5940589	MDS-6EXT PALLET ASSEMBLY	1	A
23	5906001	MDS-6EXT Packaging Label	1	--
24	5930899	50" STEEL STRAPPING	2	--
25	5905651	LABEL-ALCTV GOLD LABEL US: MET LABS	1	--

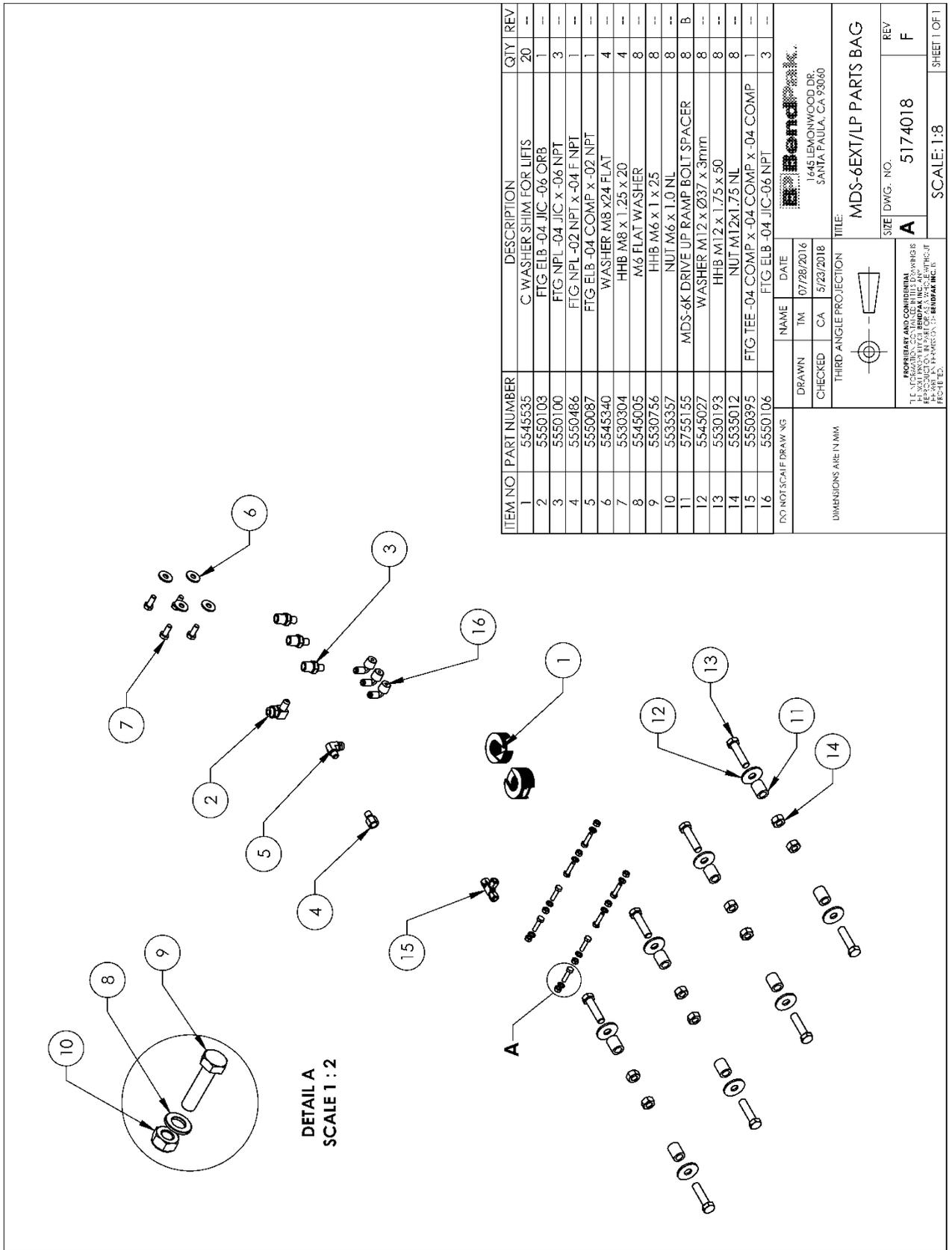
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TITLE: MDS-6EXT PRODUCTION LIFT VER B			
SIZE DWG. NO.		REV	
A		5260556	
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 1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
TITLE: MDS-6EXT PRODUCTION LIFT VER B	
SIZE DWG. NO. A	REV P
SCALE: 1:30	
SHEET 2 OF 4	





ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5545536	C. WASHER SHIM FOR LIFTS	20	--
2	5550103	FTG ELB -04 JIC -06 ORB	1	--
3	5550100	FTG NPL -04 JIC x -06 NPT	3	--
4	5550486	FTG NPL -02 NPT x -04 F NPT	1	--
5	5550087	FTG ELB -04 COMP x -02 NPT	1	--
6	5545340	WASHER M8 X24 FLAT	4	--
7	5530304	HHB M8 x 1.25 x 20	4	--
8	5545005	M6 FLAT WASHER	8	--
9	5530756	HHB M6 x 1 x 25	8	--
10	5535357	NUT M6 x 1.0 NL	8	--
11	5755155	MDS-6K DRIVE UP RAMP BOLT SPACER	8	B
12	5545027	WASHER M12 x Ø37 x 3mm	8	--
13	5530193	HHB M12 x 1.75 x 50	8	--
14	5535012	NUT M12x1.75 NL	8	--
15	5550395	FTG TEE -04 COMP x -04 COMP x -04 COMP	1	--
16	5550106	FTG ELB -04 JIC-06 NPT	3	--

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SIZE DWG. NO. A 5174018

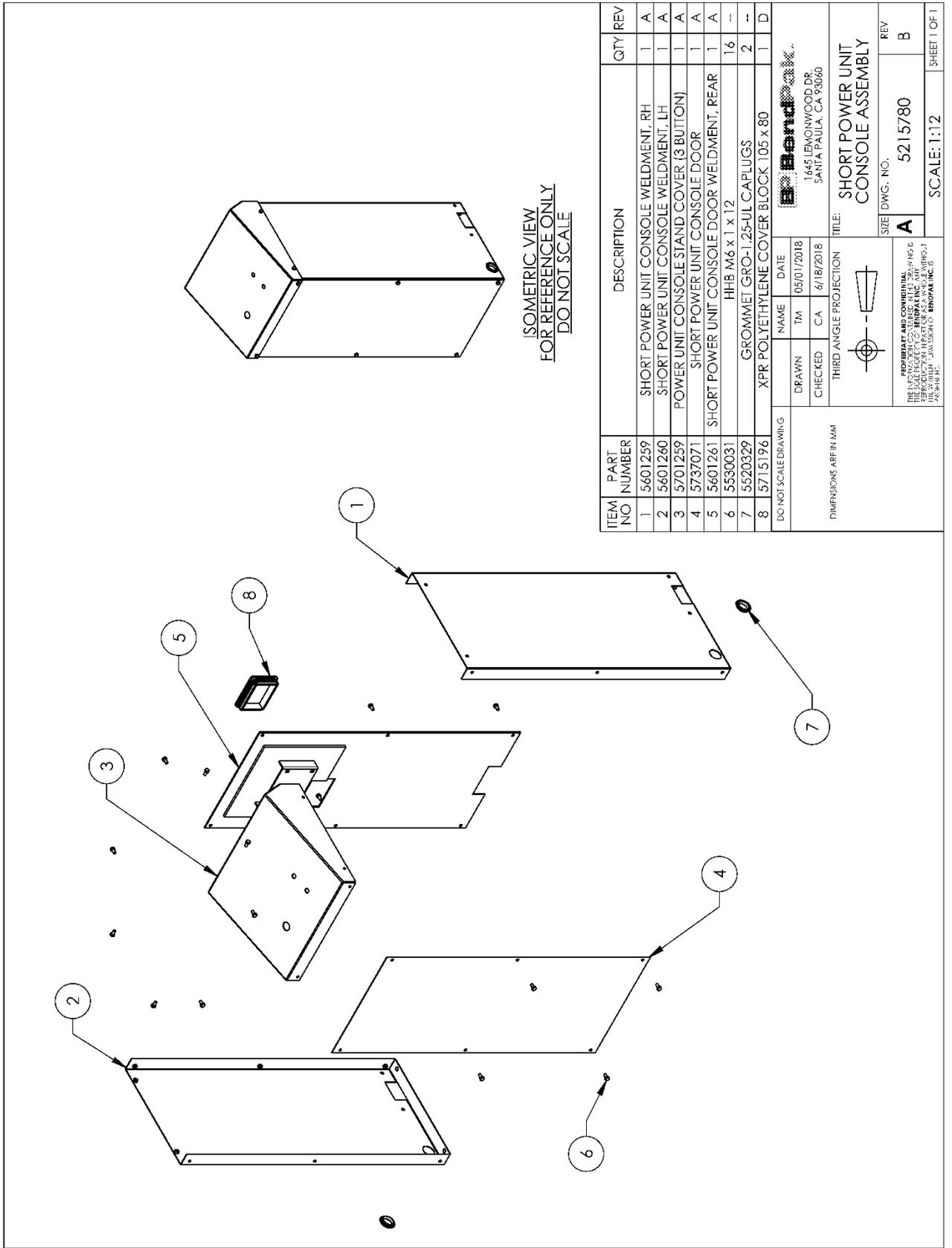
REV F

SHEET 1 OF 1

FOR BENTLEY AND COMPANY
115 SOUTH BAYVIEW BLVD
SANTA ANA, CA 92701
TEL: 714/952-1100 FAX: 714/952-1101
WWW.BENTLEYANDCOMPANY.COM

1648 LEMONWOOD DR.
SANTA PAULA, CA 93060

DIMENSIONS ARE IN MM



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ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5601259	SHORT POWER UNIT CONSOLE WELDMENT, RH	1	A
2	5601260	SHORT POWER UNIT CONSOLE WELDMENT, LH	1	A
3	5701259	POWER UNIT CONSOLE STAND COVER (3 BUTTON)	1	A
4	5737071	SHORT POWER UNIT CONSOLE DOOR	1	A
5	5601261	SHORT POWER UNIT CONSOLE DOOR WELDMENT, REAR	1	A
6	5530031	HHB M6 x 1 x 12	16	--
7	5520329	GROMMET GRO-1, 25-UL CAPPLUGS	2	--
8	5715196	XPR POLYETHYLENE COVER BLOCK 105 x 80	1	D

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CHECKED	CA	6/18/2018	

DIMENSIONS ARE IN MM

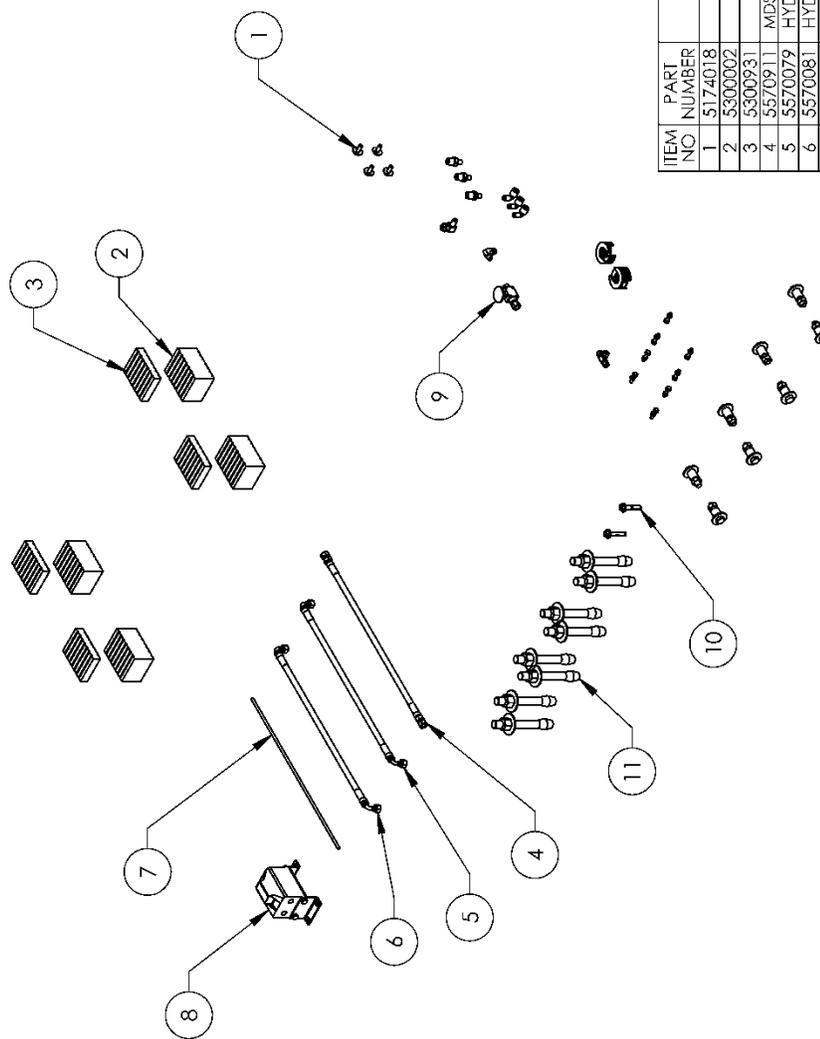
THIRD ANGLE PROJECTION

TITLE: SHORT POWER UNIT CONSOLE ASSEMBLY
 SIZE: DWG. NO. 5215780
 REV: B

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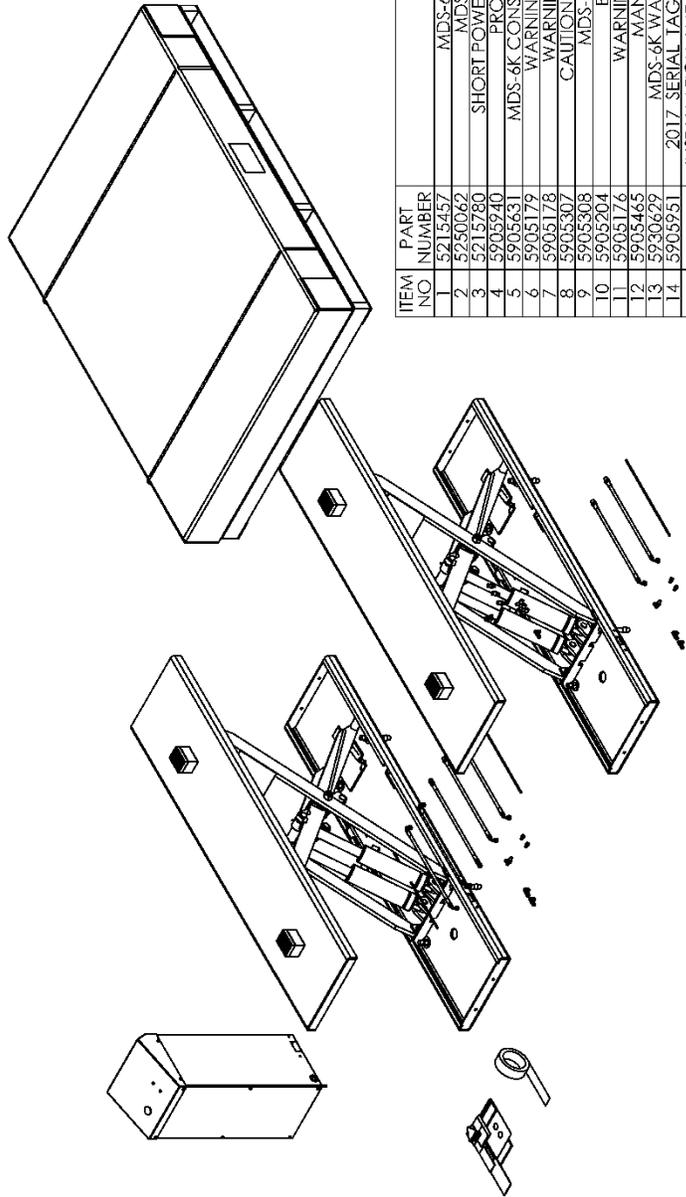
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SHEET 1 OF 1



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5174018	MDS-6EXT/LP PARTS BAG	1	F
2	5300002	55mm RUBBER PAD	4	C
3	5300931	20mm RUBBER PAD	4	A
4	5570911	MDS-6 SERIES HYDRAULIC HOSE ASST. Ø6.35 x 458mm DS	1	B
5	5570079	HYDRAULIC HOSE ASSEMBLY Ø6.35 x 2212mm DB	1	B
6	5570081	HYDRAULIC HOSE ASSEMBLY Ø6.35 x 3352mm DB	1	B
7	5570795	1/4" POLY-FLO TUBING	3550mm*	--
8	5590104	HYDRAULIC FLOW DIVIDER: SHANGHAI TANG	1	--
9	5590175	PUSH BUTTON AIR VALVE	1	--
10	5530326	AB Ø3/8" x 2-1/4"	2	--
11	5530307	AB 3/4" x 5"	8	--

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SIZE DWG. NO. A 5250054			
SCALE: 1:15			SHEET 1 OF 1

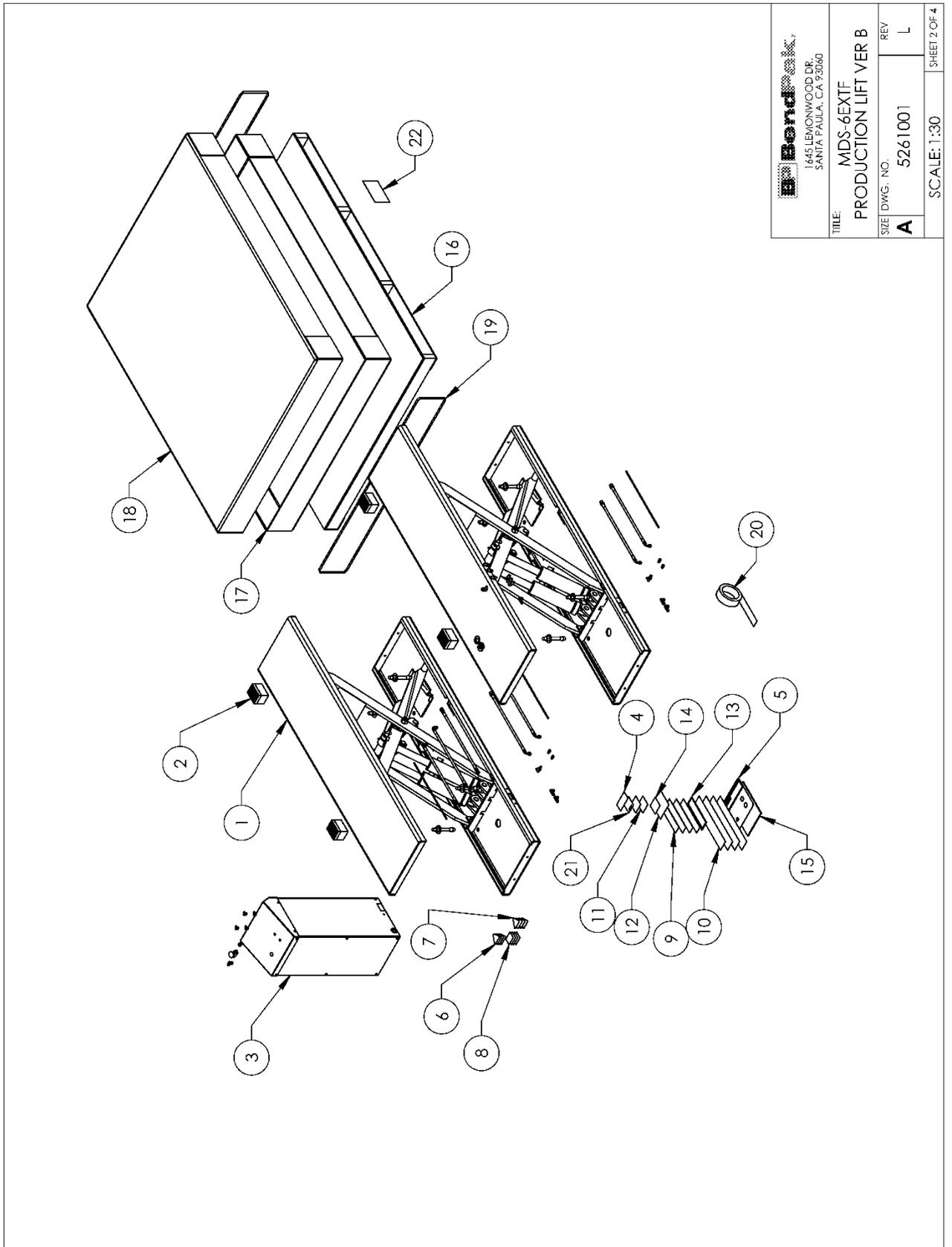


ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5215457	MDS-6EXT RAMP ASSEMBLY	2	K
2	5250062	MDS-6EXTIF PARTS BOX	1	C
3	5215780	SHORT POWER UNIT CONSOLE ASSEMBLY	1	B
4	5905940	PRODUCT DATA LABEL	1	---
5	5905631	MDS-6K CONSOLE PANEL WARNING LABEL	1	---
6	5905179	WARNING/CRUSH POINT LABEL	4	---
7	5905178	WARNING/LUBE POINT LABEL	4	---
8	5905307	CAUTION CAPACITY SCISSOR LIFT	4	---
9	5905308	MDS-6K CAPACITY LABEL	4	---
10	5905204	BENDPAK LABEL	4	---
11	5905176	WARNING TO PROLONG LIFE	2	---
12	5905465	MANUFACTURER LABEL	1	---
13	5930679	MDS-6K WARNING DRIVE OVER LABEL	1	---
14	5905951	2017 SERIAL TAG-B-5905951-VERTICAL-NO BLEED	1	---
15	5900030	INSTALLATION AND OPERATION MANUAL MDS-6EXT / MDS-6EXTIF / MDS-6LP / MDS-6LPF	1	---
16	5940589	MDS-6EXT PALLET ASSEMBLY	1	A
17	5781038	MDS-6EXT CARRIER BOX, BOTTOM	1	A
18	5781068	MDS-6EXT CARRIER BOX, TOP	1	A
19	5930899	.50" STEEL STRAPPING	2	---
20	5930609	BLACK AND YELLOW HAZARD 2" x 10"	1	---
21	5905651	LABEL: ALCTV GOLD LABEL, US: MET LABS	1	---
22	5906024	MDS-6EXTIF Packaging Label	1	---

DO NOT SCALE DRAWING		NAME	DATE
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		SIZE DWG. NO. 5261001
		REV L

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DIMENSIONS ARE IN MM		SCALE: 1:30
SHEET 1 OF 4		

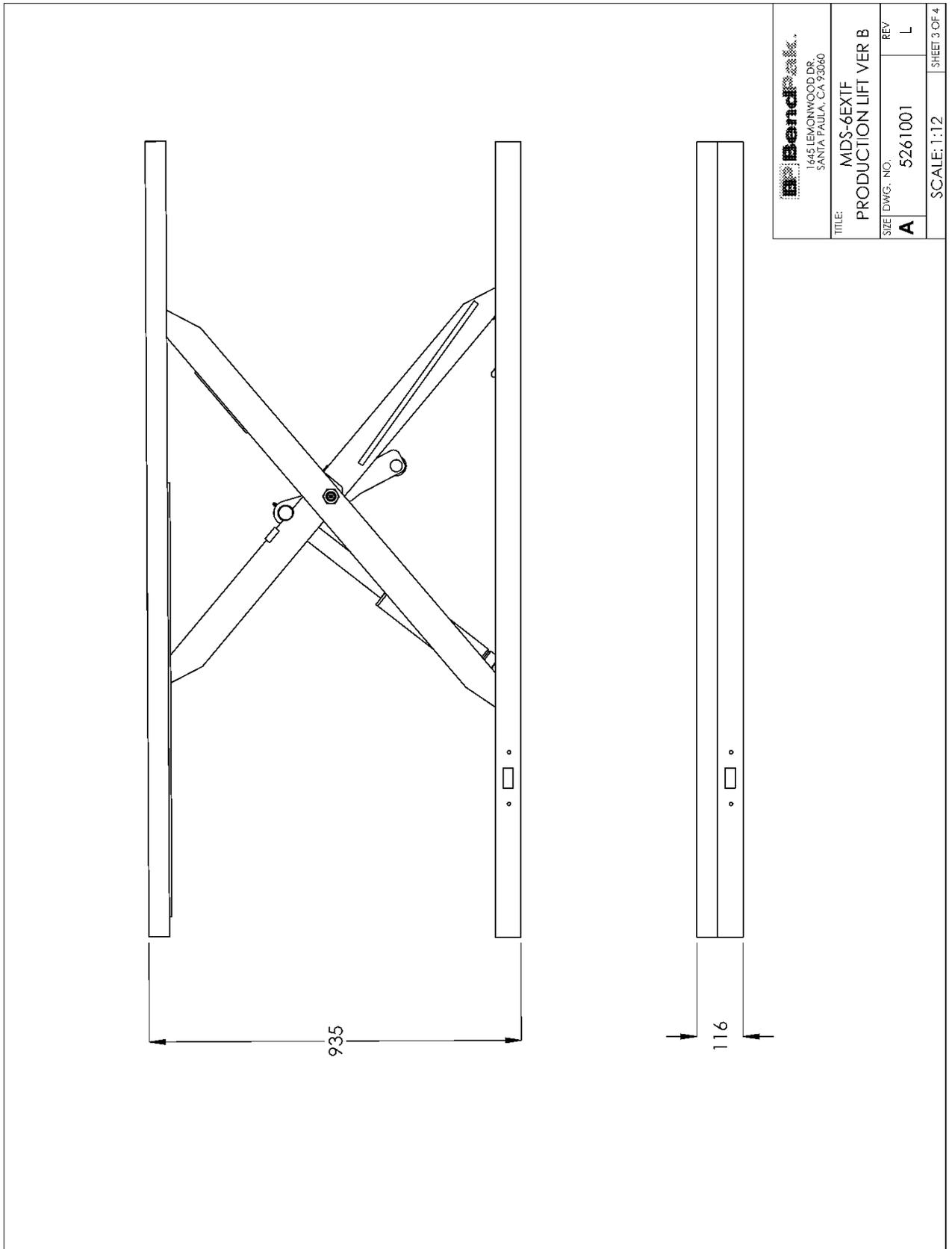


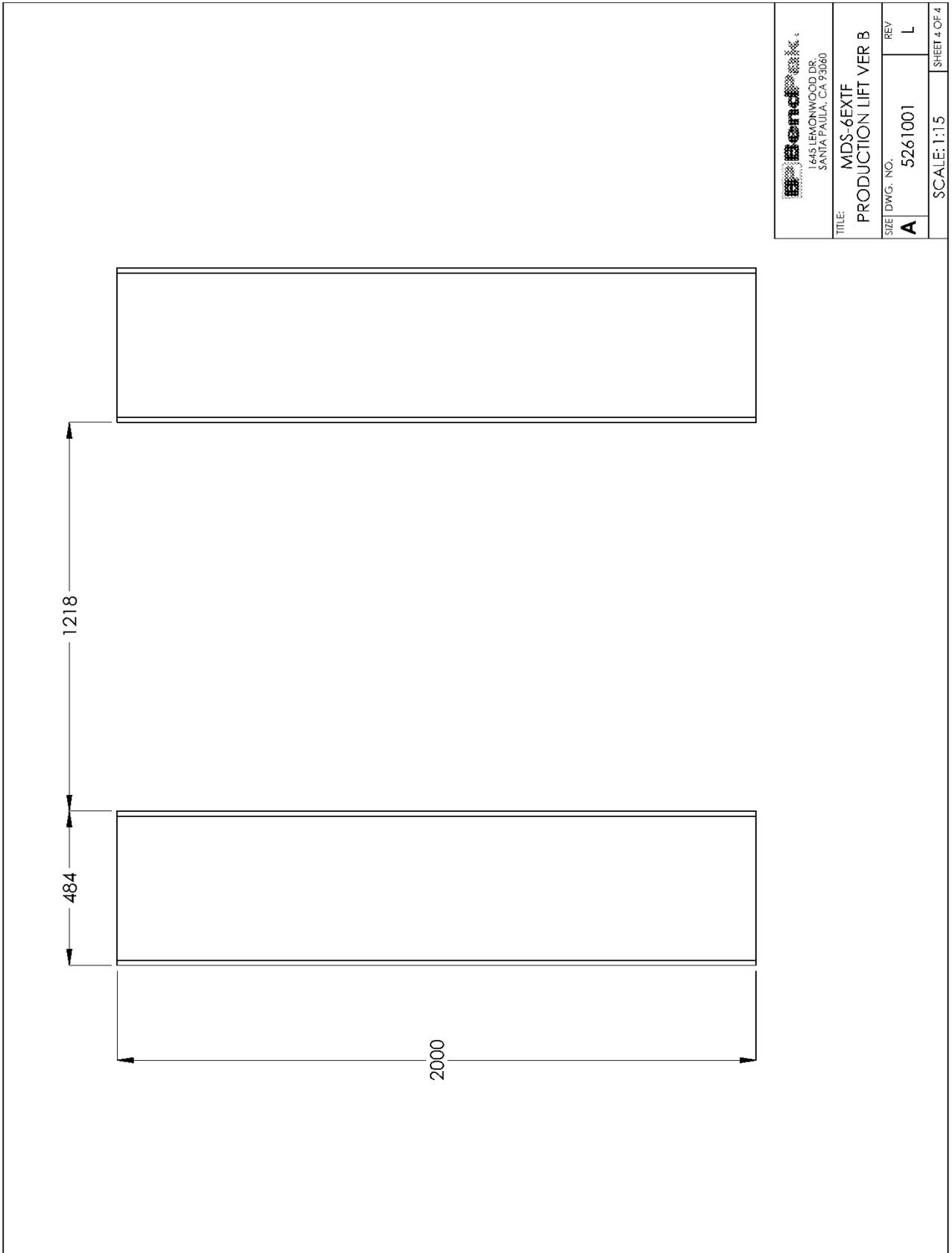
1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: MDS-6EXTF
PRODUCTION LIFT VER B

SIZE	DWG. NO.	REV
A	5261001	L

SCALE: 1:30 SHEET 2 OF 4





1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

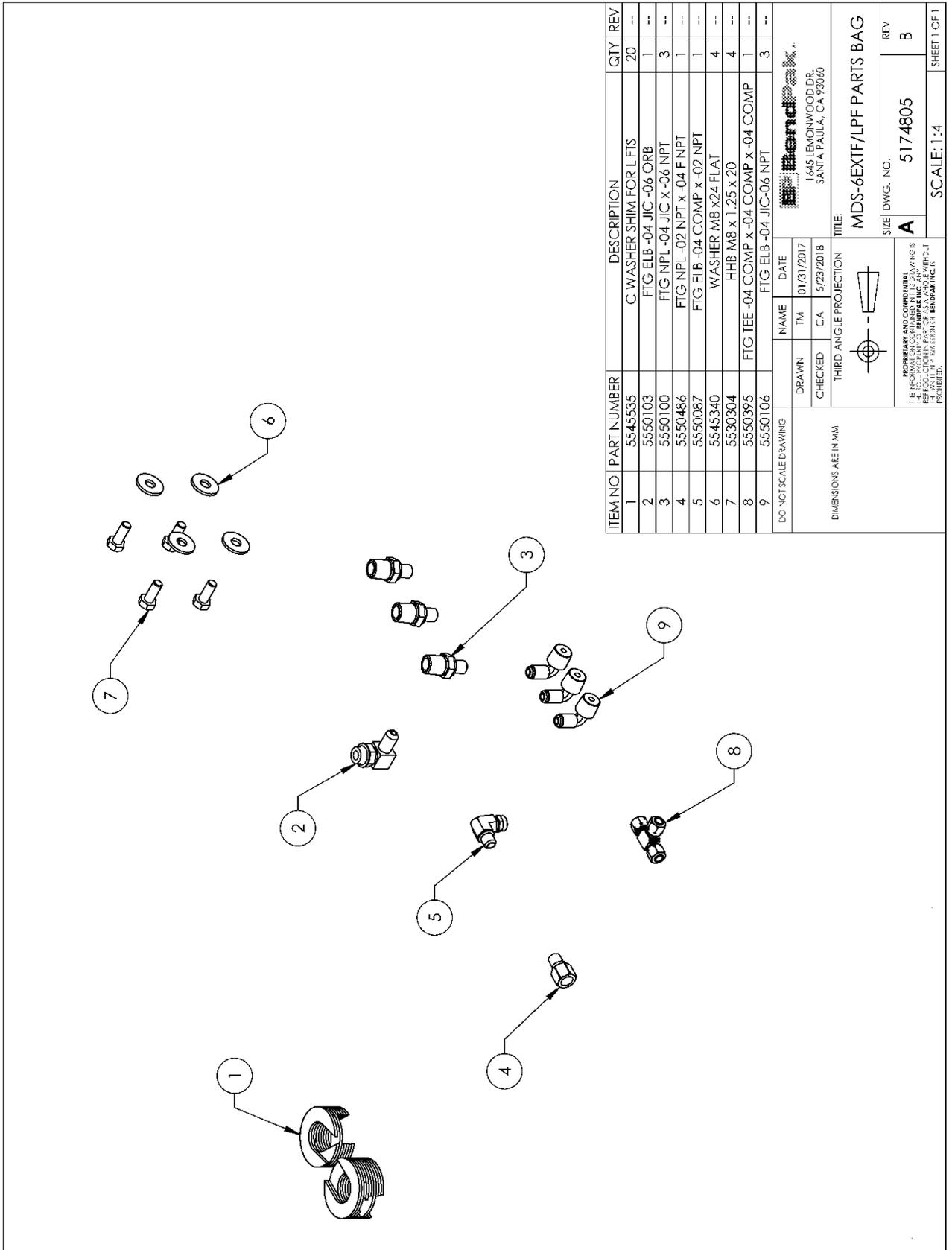
TITLE: MDS-6EXTF

PRODUCTION LIFT VER B

SIZE DWG. NO. 5261001

REV L

SCALE: 1:15 SHEET 4 OF 4



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5545535	C WASHER SHIM FOR LIFTS	20	--
2	5550103	FIG ELB -04 JIC -06 ORB	1	--
3	5550100	FIG NPL -04 JIC x -06 NPT	3	--
4	5550486	FIG NPL -02 NPT x -04 F NPT	1	--
5	5550087	FIG ELB -04 COMP x -02 NPT	1	--
6	5545340	WASHER M8 x24 FLAT	4	--
7	5530304	HHB M8 x 1.25 x 20	4	--
8	5550395	FIG TEE -04 COMP x -04 COMP x -04 COMP	1	--
9	5550106	FIG ELB -04 JIC -06 NPT	3	--

DO NOT SCALE DRAWING		NAME	DATE
DRAWN	TM	01/31/2017	
CHECKED	CA	5/23/2018	

THIRD ANGLE PROJECTION

1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: MDS-6EXTF/LPF PARTS BAG

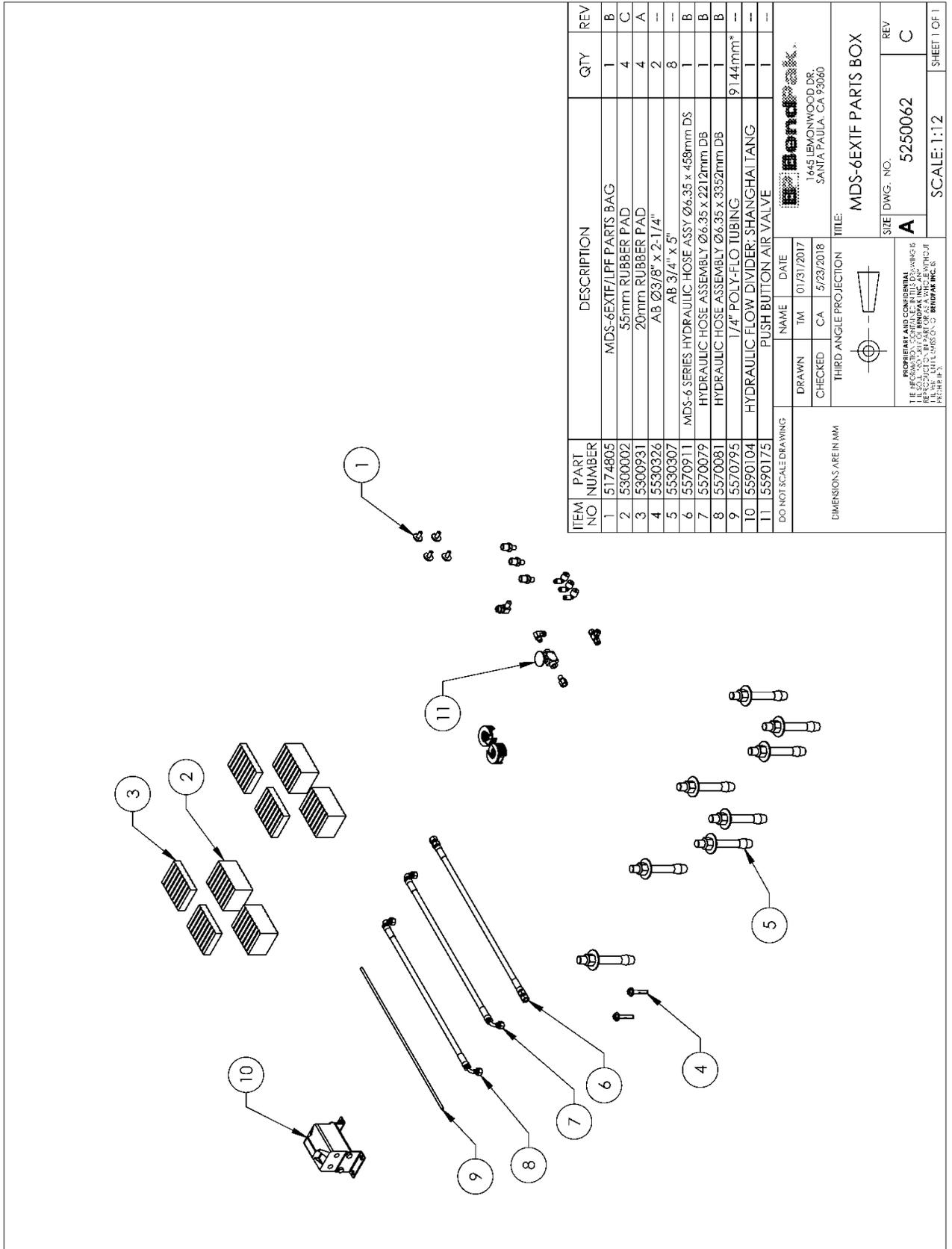
SIZE DWG. NO. 5174805

REV B

DIMENSIONS ARE IN MM

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DATE 05/23/2018 BY 60322/UC/AV/STP/STP

SCALE: 1:4 SHEET 1 OF 1



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5174805	MDS-6EXTIF/LPF PARTS BAG	1	B
2	5300002	55mm RUBBER PAD	4	C
3	5300931	20mm RUBBER PAD	4	A
4	5530326	AB Ø3/8" x 2-1/4"	2	--
5	5530307	AB 3/4" x 5"	8	--
6	5570911	MDS-6 SERIES HYDRAULIC HOSE ASSY Ø6.35 x 458mm DS	1	B
7	5570079	HYDRAULIC HOSE ASSEMBLY Ø6.35 x 2212mm DB	1	B
8	5570081	HYDRAULIC HOSE ASSEMBLY Ø6.35 x 3352mm DB	1	B
9	5570795	1/4" POLY-FLO TUBING	9.144mm*	--
10	5590104	HYDRAULIC FLOW DIVIDER, SHANGHAI TANG	1	--
11	5590175	PUSH BUTTON AIR VALVE	1	--

DO NOT SCALE DRAWING	NAME	DATE
	TM	01/31/2017
DRAWN	CA	5/23/2018
CHECKED		

THIRD ANGLE PROJECTION

1445 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: MDS-6EXTIF PARTS BOX

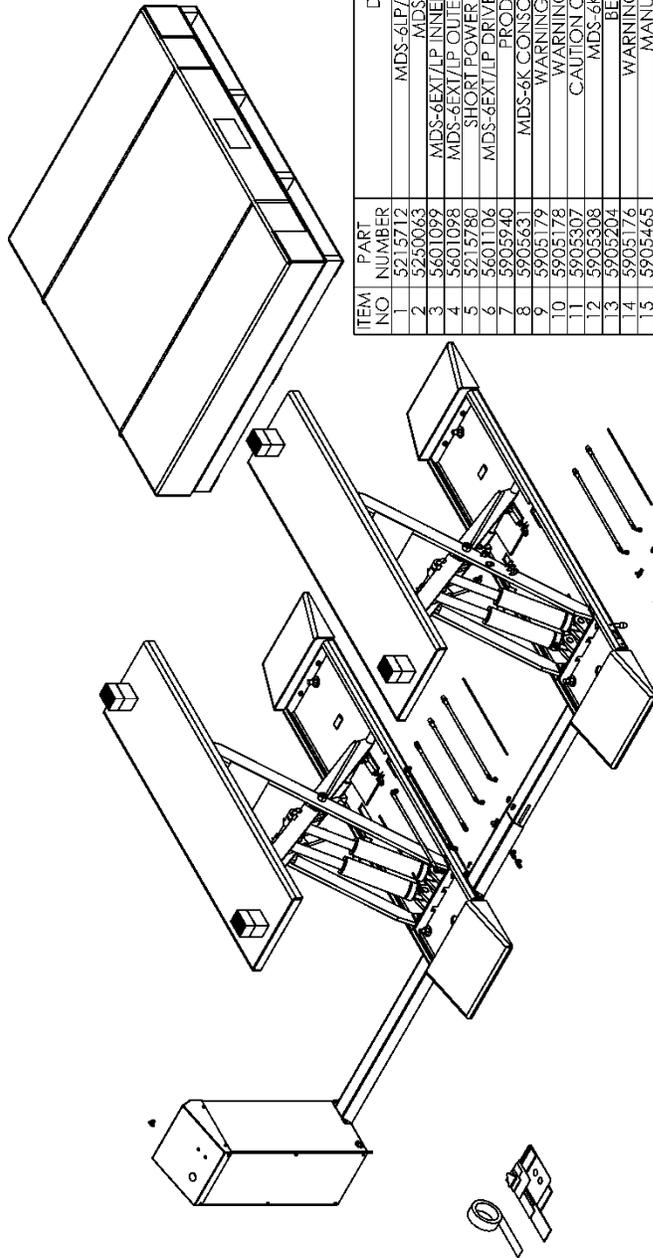
SIZE DWG. NO. A 5250062

REV C

SCALE: 1:12

SHEET 1 OF 1

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ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5215712	MDS-6LP/PE RAMP ASSEMBLY	2	F
2	5250043	MDS-6LP PARTS BOX	1	D
3	5601089	MDS-6EXT/1P INNER FLOOR TROUGH WELDMENT	1	C
4	5601088	MDS-6EXT/1P OUTER FLOOR TROUGH WELDMENT	1	C
5	5215780	SHORT POWER UNIT CONSOLE ASSEMBLY	1	B
6	5601106	MDS-6EXT/1P DRIVE UP RAMP WELDMENT, SHORT	4	D
7	5905940	PRODUCT DATA LABEL	1	---
8	5905631	MDS-6K CONSOLE PANEL WARNING LABEL	1	---
9	5905179	WARNING/CRUSH POINT LABEL	4	---
10	5905178	WARNING/LUBE POINT LABEL	4	---
11	5905307	CAUTION CAPACITY SCISSOR LIFT	4	---
12	5905308	MDS-6K CAPACITY LABEL	4	---
13	5905204	BENDPAK LABEL	4	---
14	5905176	WARNING TO PROLONG LIFE	2	---
15	5905465	MANUFACTURER LABEL	1	---
16	5930629	MDS-6K WARNING DRIVE OVER LABEL	1	---
17	5905951	2017 SERIAL TAG-B-5905951-VERTICAL-NO BLEED INSTALLATION AND OPERATION MANUAL MDS-6EXT / MDS-6LP / MDS-6LP	1	---
18	5900030	MDS-6EXT / MDS-6LP / MDS-6LP	1	---
19	5781601	MDS-6LP CARRIER BOX, TOP	1	A
20	5781040	MDS-6LP CARRIER BOX, BOTTOM	1	A
21	5940590	MDS-6LP PALLET ASSEMBLY	1	A
22	5906004	MDS-6LP Packaging Label	1	---
23	5930899	.50" STEEL STRAPPING	2	---
24	5930609	BLACK AND YELLOW HAZARD 2" X 10"	1	---
25	5905651	LABEL: ALCTV GOLD LABEL, US; MET LABS	1	---



1645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE:
MDS-6LP PRODUCTION LIFT VER A

SIZE DWG. NO. **A** 5260589 REV **K**

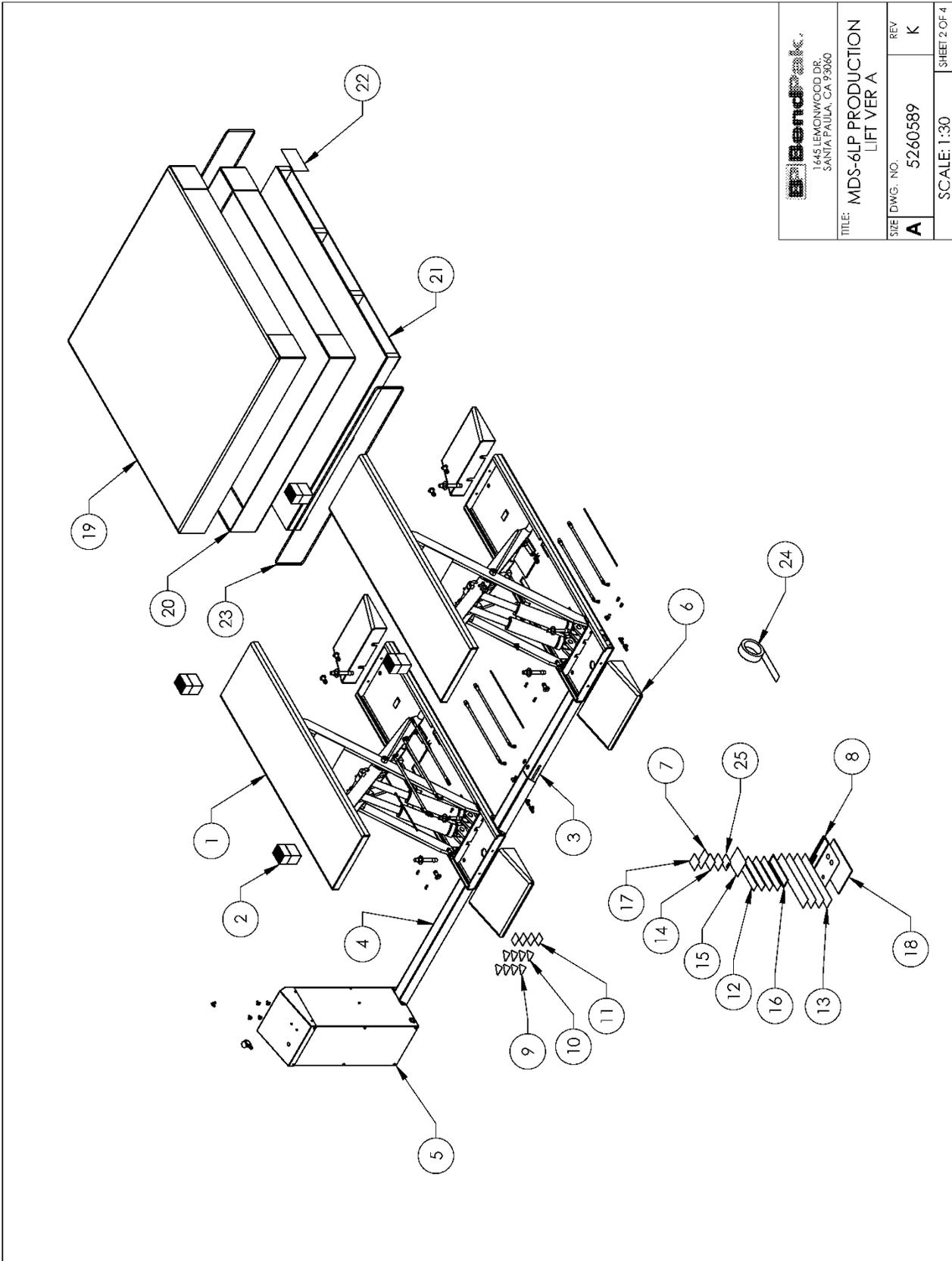
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DO NOT SCALE DRAWING	NAME	DATE
DRAWN	TM	01/26/2017
CHECKED	CA	6/18/2018

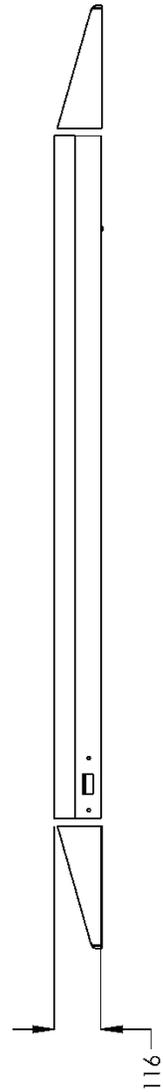
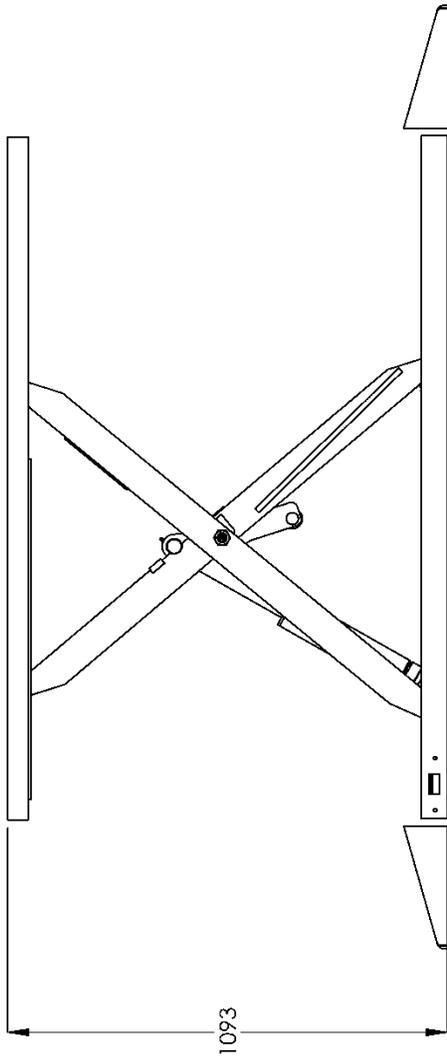
THIRD ANGLE PROJECTION

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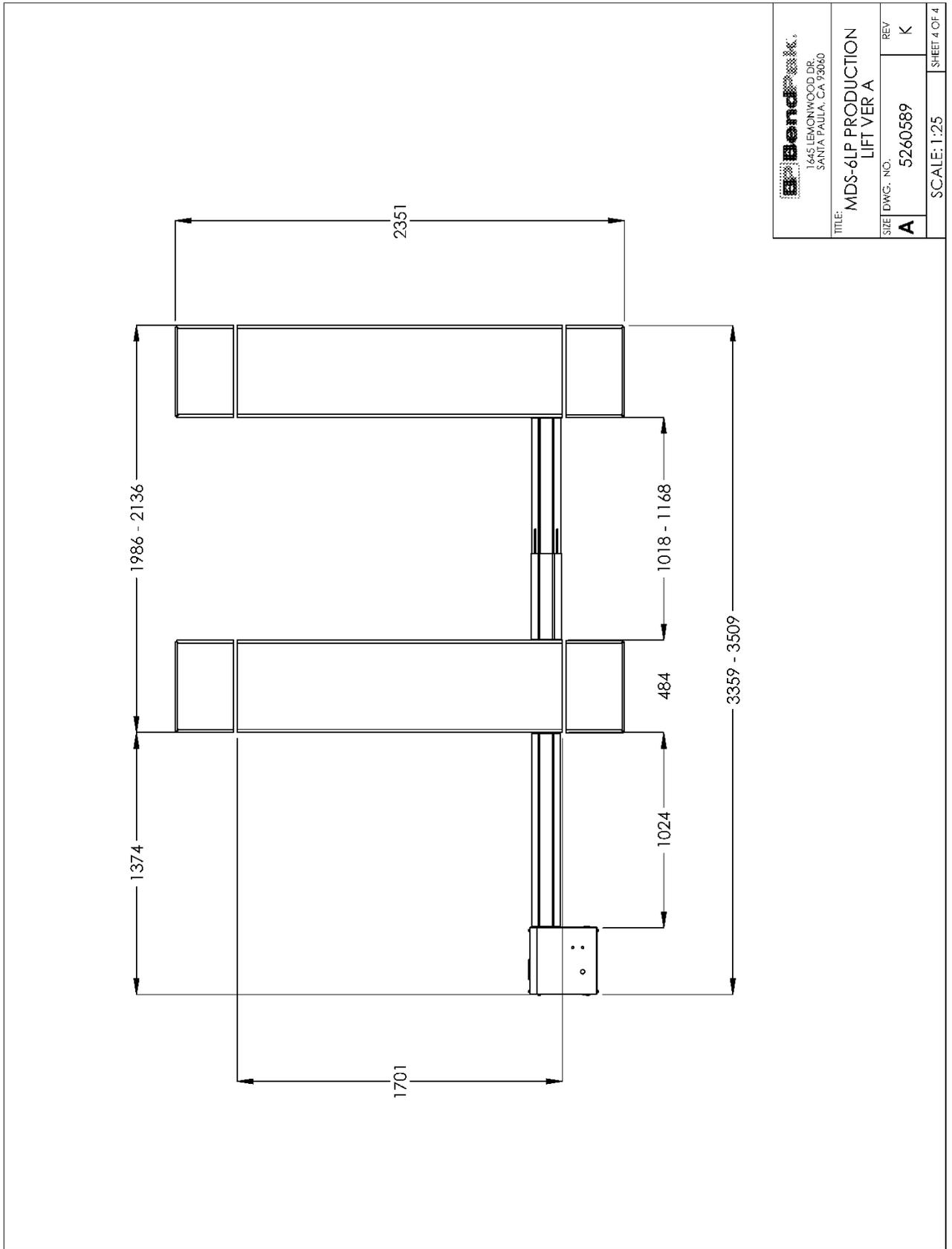
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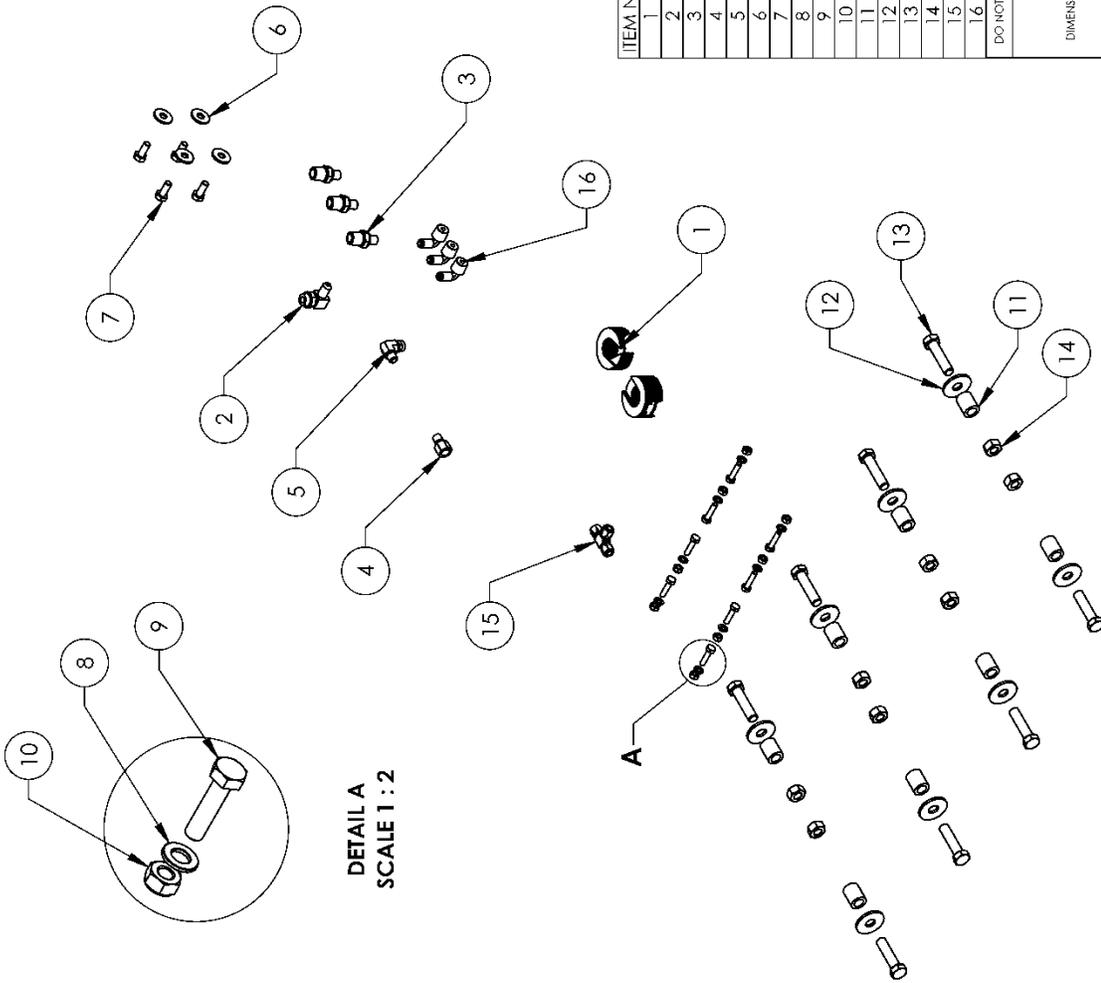
1445 LEMONWOOD DR. SANTA PAULA, CA 93660	
TITLE: MDS-6LP PRODUCTION LIFT VER A	
SIZE DWG. NO. A 5260589	REV K
SCALE: 1:30	
SHEET 2 OF 4	



	
1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
TITLE: MDS-6LP PRODUCTION LIFT VER A	
SIZE DWG. NO. A	REV K
5260589	
SCALE: 1:16	
SHEET 3 OF 4	



 1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
TITLE: MDS-6LP PRODUCTION LIFT VER A	
SIZE: A	DWG. NO.: 5260589
REV: K	SCALE: 1:25
SHEET 4 OF 4	



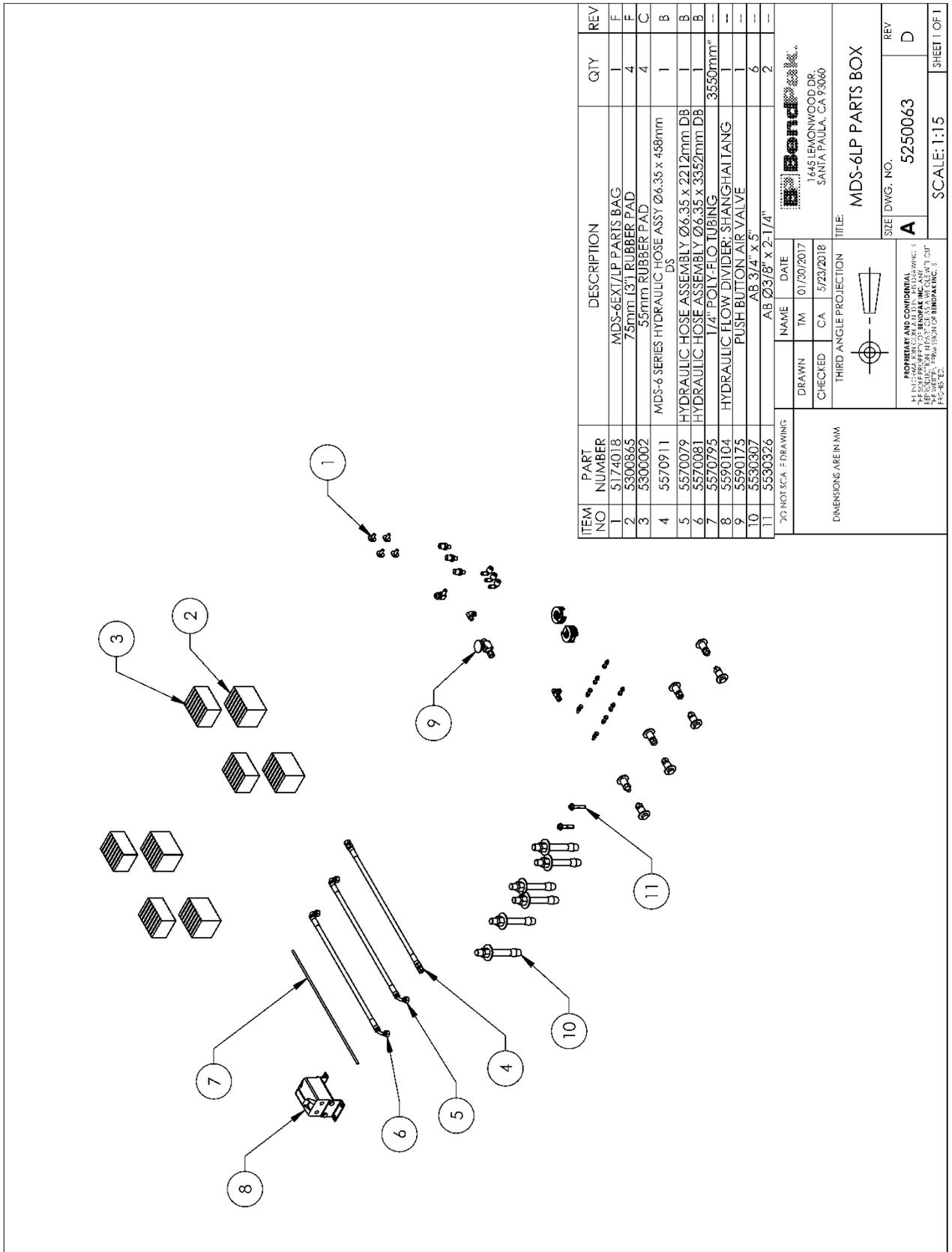
DETAIL A
SCALE 1 : 2

ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5545335	C WASHER SHIM FOR LIFTS	20	---
2	5590103	FTG ELB -04 JIC -06 ORB	1	---
3	5550100	FTG NPL -04 JIC x-06 NPT	3	---
4	5550486	FTG NPL -02 NPT x-04 F NPT	1	---
5	5590087	FTG ELB -04 COMP x-02 NPT	1	---
6	5545340	WASHER M8 X24 FLAT	4	---
7	5590304	HHB M8 x 1.25 x 20	4	---
8	5545005	M6 FLAT WASHER	8	---
9	5530756	HHB M6 x 1 x 25	8	---
10	5535357	NUT M6 x 1.0 NL	8	---
11	5755155	MDS-6K DRIVE UP RAMP BOLT SPACER	8	B
12	5545027	WASHER M12 x Ø37 x 3mm	8	---
13	5530193	HHB M12 x 1.75 x 50	8	---
14	5535012	NUT M12x1.75 NL	8	---
15	5550395	FTG TEE -04 COMP x-04 COMP x-04 COMP	1	---
16	5550106	FTG ELB -04 JIC-06 NPT	3	---

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DRAWN	TM	07/28/2016	
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THIRD ANGLE PROJECTION		TITLE
		MDS-6EXT/LP PARTS BAG
SIZE	DWG. NO.	REV
A	5174018	F

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SCALE: 1:8	
SHEET 1 OF 1	



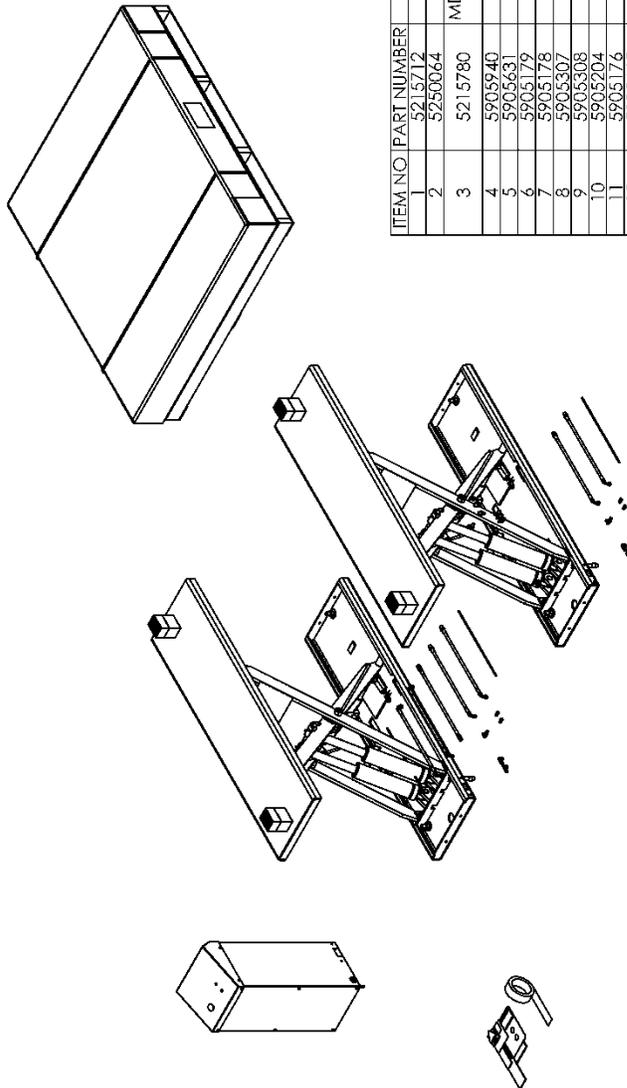
ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5174018	MDS-6EXT/7LP PARTS BAG	1	F
2	5300865	75mm (3") RUBBER PAD	4	F
3	5300002	55mm RUBBER PAD	4	C
4	5570911	MDS-6 SERIES HYDRAULIC HOSE ASSY Ø6.35 x 458mm DS	1	B
5	5570079	HYDRAULIC HOSE ASSEMBLY Ø6.35 x 2212mm DB	1	B
6	5570081	HYDRAULIC HOSE ASSEMBLY Ø6.35 x 3352mm DB	1	B
7	5570795	1/4" POLY-FLO TUBING 3550mm*	1	---
8	5590104	HYDRAULIC FLOW DIVIDER: SHANGHAI TANG	1	---
9	5590175	PUSH BUTTON AIR VALVE	1	---
10	5530307	AB 3/4" X 5"	6	---
11	5530326	AB Ø3/8" X 2-1/4"	2	---

DRAWN: TM 01/30/2017
 CHECKED: CA 5/23/2018
 THIRD ANGLE PROJECTION
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TITLE: MDS-6LP PARTS BOX
 SIZE: DWG. NO. A 5250063
 REV: D

SCALE: 1:15
 SHEET 1 OF 1



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5215712	MDS-6LPF RAMP ASSEMBLY	2	F
2	5250064	MDS-6LPF PARTS BOX	1	D
3	5215780	MDS-6 SERIES POWER UNIT CONSOLE ASSEMBLY, SHORT	1	B
4	5905940	PRODUCT DATA LABEL	1	---
5	5905631	MDS-6K CONSOLE PANEL WARNING LABEL	1	---
6	5905179	WARNING/GRUSH POINT LABEL	4	---
7	5905178	WARNING/LUBE POINT LABEL	4	---
8	5905307	CAUTION CAPACITY SCISSOR LIFT	4	---
9	5905308	MDS-6K CAPACITY LABEL	4	---
10	5905204	BENDPAK LABEL	4	---
11	5905176	WARNING TO PROLONG LIFE	2	---
12	5905465	MANUFACTURER LABEL	1	---
13	5930629	MDS-6K WARNING DRIVE OVER LABEL	1	---
14	5905951	5905951-2015_Serial_Tag-B	1	---
15	5900030	INSTALLATION AND OPERATION MANUAL MDS-6EXT / MDS-6EXT / MDS-6LP / MDS-6LPF	1	---
16	5940590	MDS-6LP PALLET ASSEMBLY	1	A
17	5781601	MDS-6LP CARRIER BOX, TOP	1	A
18	5781040	MDS-6LP CARRIER BOX, BOTTOM	1	A
19	5930899	50' STEEL STRAPPING	2	---
20	5930609	BLACK AND YELLOW HAZARD 2" x 10ft	1	---
21	5906003	MDS-6LPF Packaging Label	1	---
22	5905651	LABEL: ALCTV GOLD LABEL, US: MET LABS	1	---

DO NOT SCALE DRAWING	NAME	DATE
	TM	01/31/2017
	CA	6/18/2018

DRAWN		TM		01/31/2017	
CHECKED		CA		6/18/2018	

THIRD ANGLE PROJECTION

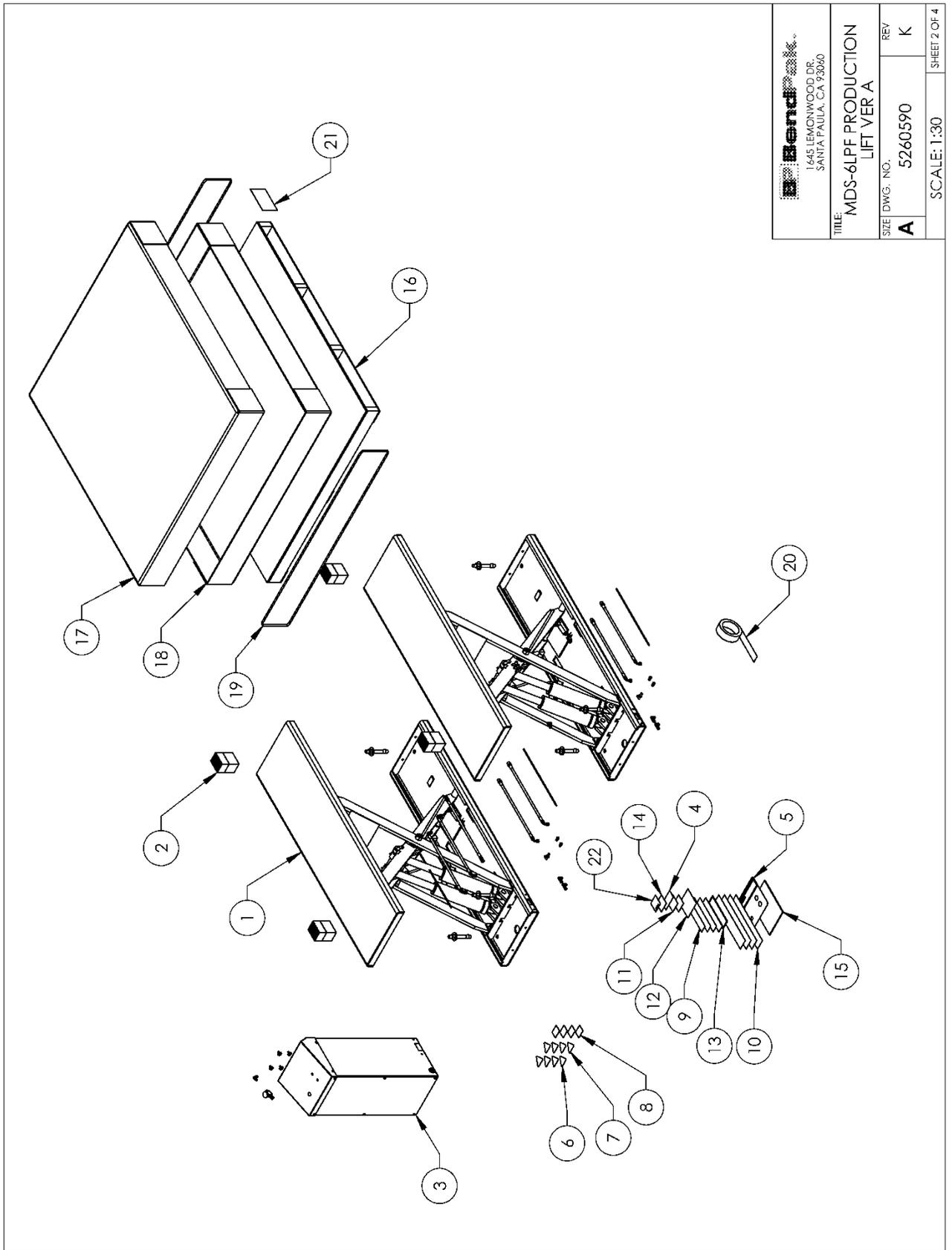
6645 LEMONWOOD DR.
SANTA PAULA, CA 93060

TITLE: MDS-6LPF PRODUCTION LIFT VER A

SIZE DWG. NO. A 5260590 REV K

SCALE: 1:35 SHEET 1 OF 4

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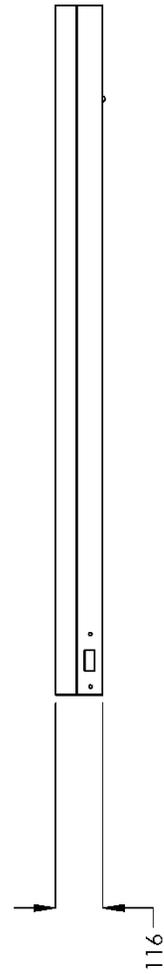
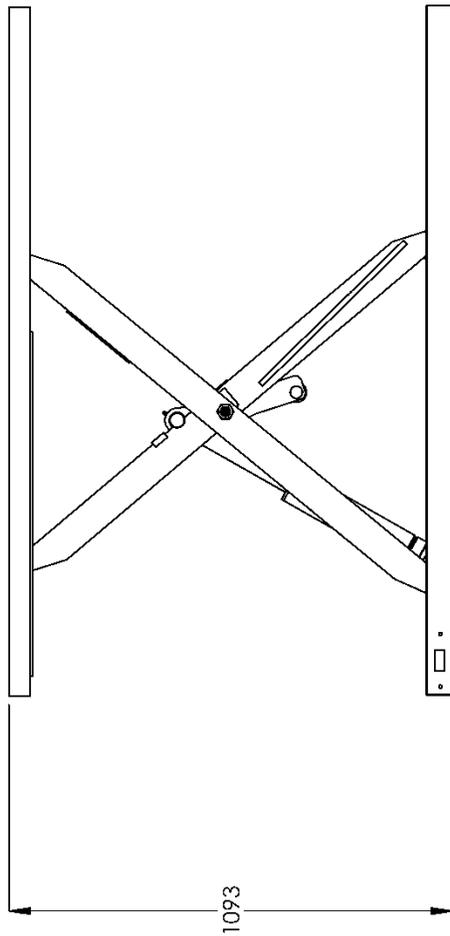


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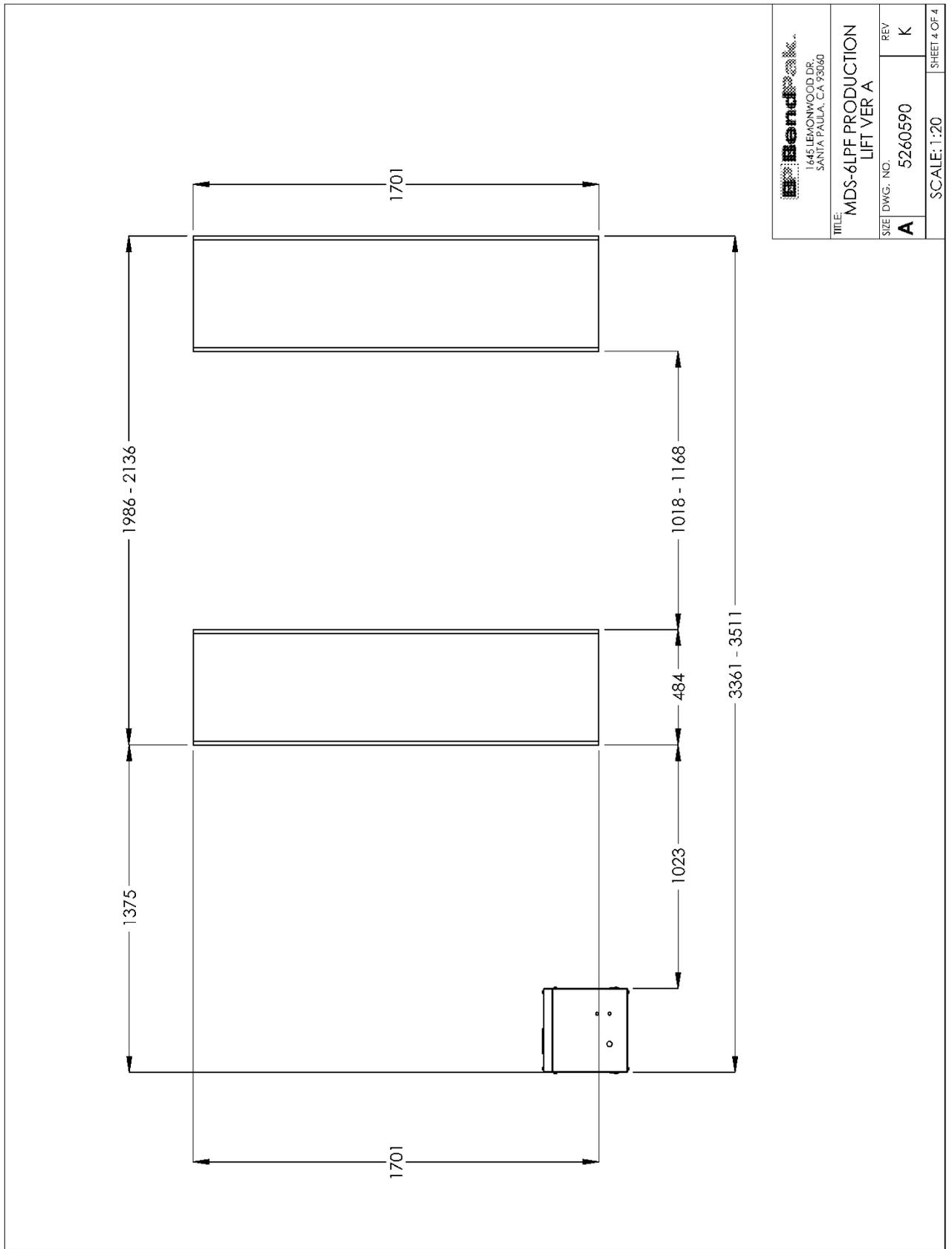
TITLE: MDS-6LPF PRODUCTION
 LIFT VER A

SIZE	DWG. NO.	REV
A	5260590	K

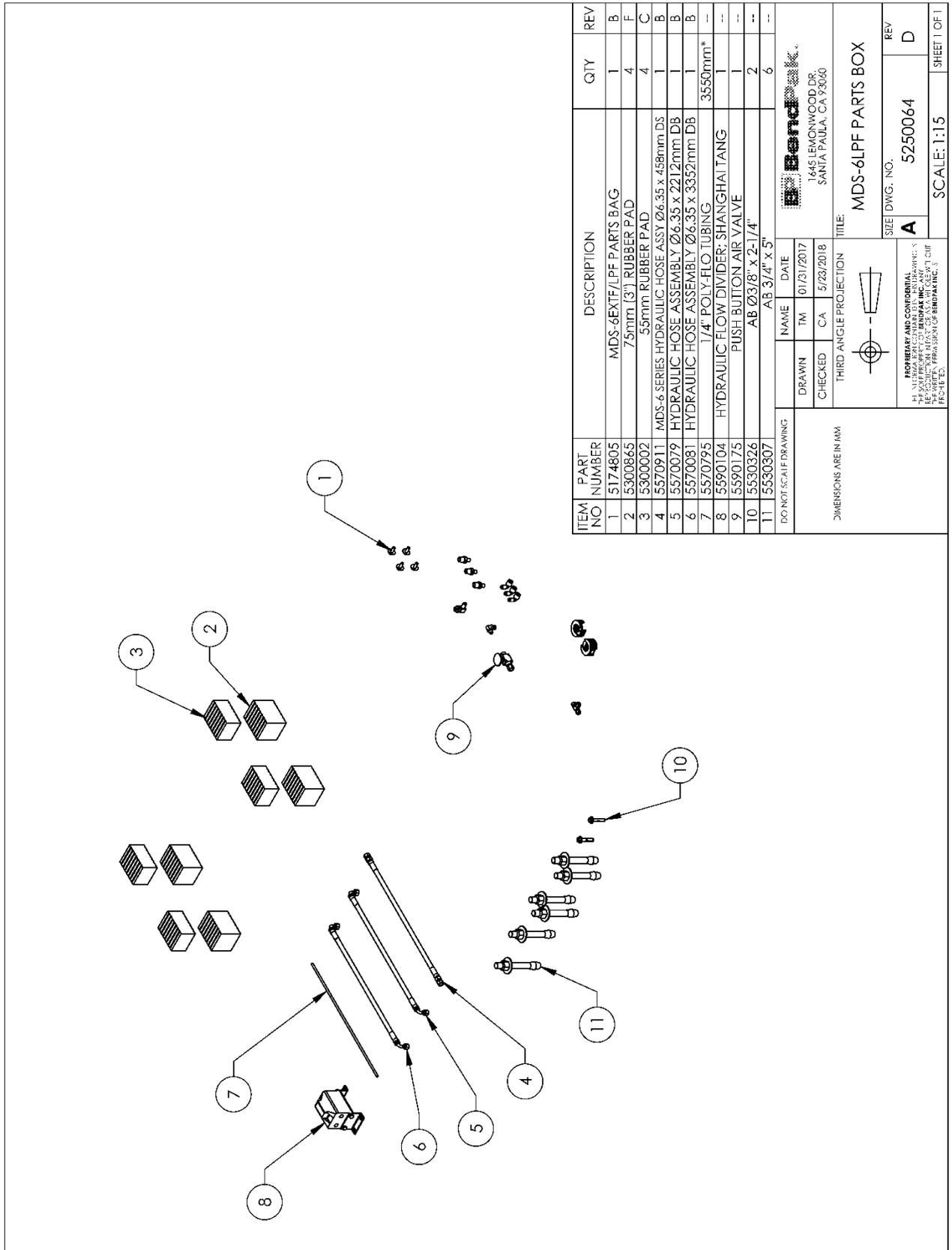
SCALE: 1:30
 SHEET 2 OF 4



 1645 LEMONWOOD DR. SANTA PAULA, CA 93060		TITLE: MDS-6L/PF PRODUCTION LIFT VER A	
SIZE DWG. NO. A 5260590	REV K	SCALE: 1:16	
			SHEET 3 OF 4



	
1645 LEMONWOOD DR. SANTA PAULA, CA 93060	
TITLE: MDS-6LPF PRODUCTION LIFT VER A	
SIZE: DWG. NO.	REV
A 5260590	K
SCALE: 1:20	
SHEET 4 OF 4	



ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5174805	MDS-6EXTF/LPF PARTS BAG	1	B
2	5300865	75mm (3") RUBBER PAD	4	F
3	5300002	55mm RUBBER PAD	4	C
4	5570911	MDS-6 SERIES HYDRAULIC HOSE ASSY Ø6.35 x 458mm DS	1	B
5	5570079	HYDRAULIC HOSE ASSEMBLY Ø6.35 x 2212mm DB	1	B
6	5570081	HYDRAULIC HOSE ASSEMBLY Ø6.35 x 3352mm DB	1	B
7	5570795	1/4" POLY-FLO TUBING	3550mm*	--
8	5590104	HYDRAULIC FLOW DIVIDER; SHANGHAI TANG	1	--
9	5590175	PUSH BUTTON AIR VALVE	1	--
10	5530326	AB Ø3/8" x 2-1/4"	2	--
11	5530307	AB 3/4" x 5"	6	--

DO NOT SCALE DRAWING		NAME	DATE
DRAWN	TM	01/31/2017	
CHECKED	CA	5/23/2018	

THIRD ANGLE PROJECTION

645 LEMONWOOD DR.
SANTA PAULA, CA 95060

TITLE: MDS-6LPF PARTS BOX

SIZE DWG. NO. 5250064

REV. D

SCALE: 1:15

SHEET 1 OF 1

INDUSTRIAL AIR SCREWDRILL
P.O. BOX 1000, SANTA ANA, CA 92701
TEL: 714/952-1000 FAX: 714/952-1001
WWW.AIRSCREWDRILL.COM

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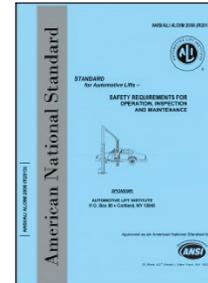
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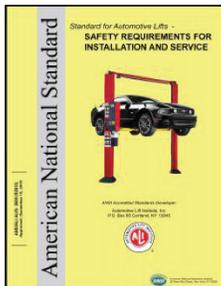
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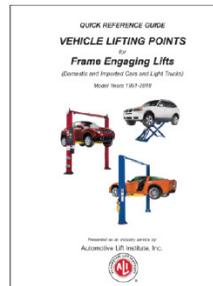
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ANSI/ALI ALOIM Standard for Automotive Lifts. Safety Requirements for Operation, Inspection, and Maintenance.



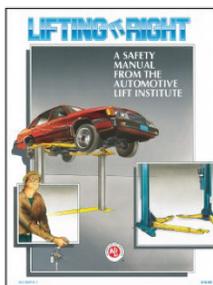
ANSI/ALI ALIS Standard. Safety Requirements for Installation and Service.



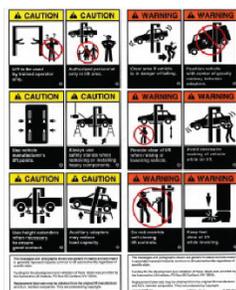
Guide to Hitting Vehicle Lifting Points for Frame-Engaging Lifts. Don't eyeball your lifting points, *know* where they are.



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