# Installation, Service, and User Instructions

## JD Series Red Wing Cadaver Lift Series

### JD501, JD5000, JD5001

**DISCLAIMER**



Mopec
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**TRADEMARKS**

Is a registered trademark of Mopec

**Owner's Record**

Model No.: _____

Serial No.: _____

Dealers Name: _____

Dealers Address: _____

Date of Purchase: _____

## Document Revisions

| Date | Version Number | Document Changes |
|---|---|---|
| 11/20/2025 | 1.0 | Initial Release |
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| | | |
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# 1 PREFACE

## 1.1 Description of the User

The Red Wing Cadaver Lifts provide a sturdy, safe, and convenient platform for transporting cadavers in morgue, hospital, and research center environments. They feature a rugged and robust frame structure with a white powder-coated finish. Using an integrated hydraulic lift system for its lifting mechanism allows it to outperform any cadaver lift in the industry. The Cadaver Scissor Lifts feature caster wheels for improved maneuverability and a handle that can be placed on two sides of the lift. A digital scale is integrated into the control console on the JD501, JD5000 and JD5001, continuously displaying the weight value in pounds or kilograms. This allows for a seamless weight measurement directly from the lift system.

## 1.2 Notations Used in this Manual

- **Length (L)** refers to the front-to-back measurement of the lift, taken from the foot end to the head end.
- **Width (W)** refers to the side-to-side measurement of the lift, taken across the width of the tabletop.
- **Height (H**) refers to the vertical measurement from the floor to the top surface of lift.

## 1.3 Models Covered in this Manual JD(xxxx)

- JD501 – Cadaver lift split roller end access 23" – 27", (5 tier). Five tier end access only with split rollers. Drain plug compatible. Integrated scale. Supports 23" – 27" trays. Capable of pass through transfer at 36" minimum.
- JD5000 – Cadaver lift end access/side access 23" – 30", (5 tier). Five tier end and side access roller ball top, drain plug compatible. Integrated scale. Supports 23" – 30" trays. Capable of end access pass through transfer at 36" minimum. Supports side loading in both directions at minimum or maximum loading heights.
- JD5001 – Cadaver lift split roller end access 23" – 32 GA", (5 tier). Five tier end access only with split rollers. Drain plug compatible. Integrated scale. Supports 23" – 32" trays. Capable of pass through transfer at 36" minimum.

## 1.4 Explanation of Safety Warnings

This manual employs the following symbols to call attention to warnings, cautions, and notices.

**WARNING** **Warning** is used to indicate the presence of a hazard that CAN cause severe injury or death if ignored.

**CAUTION** **Caution** is used to indicate the presence of a hazard that Will or CAN cause personal injury or property damage if the warning is ignored.

**NOTICE** **Notice** is used to notify people of installation, operation, or maintenance information that is important but not hazard-related.

## 1.5 Obtaining Instructions

Instructions are typically supplied digitally and stored on a USB-type flash drive that is zip-tied to the frame. At any time, the most current revision of this manual can be downloaded from the company website list in section 1.5.1.

### 1.5.1 Internet

The latest version of the documentation is available at the following address: https://www.mopec.com/documents/

### 1.5.2 Ordering documentation

Documentation, user instructions, and technical information can be ordered by calling Mopec at **800-362-8491**.

### 1.5.3 Documentation feedback

If you are reading Mopec product documentation on the internet, any comments can be submitted on the support website. Comments can also be sent to customerservice@mopec.com.

We appreciate your comments.

# 2 DESCRIPTION OF THE PRODUCT

## 2.1 Purpose of the Product

Mopec's experienced engineers developed the Red Wing Cadaver Lifts with leading-edge features, including sturdy balanced frames that outperform any cadaver lift in the industry. The unique adjustable lift top provides maximum flexibility.

## 2.2 Technical Data

The JD Series Red Wing Cadaver Lifts are designed and manufactured under the guidelines:

- **ISO 9001:2015 with Design –** Mopec facility located at 800 Tech Row, Madison Heights MI USA.

## 2.3 Operating Specifications for the Lifts

| Product | JD 501 | JD 5000 | JD 5001 |
|---|---|---|---|
| 3 Tier | | | |
| 5 Tier | X | X | X |
| Access | End | End/Side | End |
| Split Roller | X | | X |
| Roller Balls | | X | |
| 23" Tray | X | X | X |
| 27" Tray | | X | X |
| 32" Tray | | | X |
| Scale | X | X | X |
| Min Height | 13.4" | 13.3" | 13.4" |
| Max Height | 76.8" | 76.7" | 76.8" |
| Dimensions | 95.2"L X 29.2"W | 95.2"L X 29.2 - 33.2"W | 95.2"L X 34.4"W |
| Elevating Range | 13.4" – 76.8"H | 13.3" – 76.7"H | 13.4" – 76.8"H |

- Operating Environment: 60±25°F or 16±14°C
- Lift weight without tray: 520 to 590lbs or 235.9 to 267.6kgs

## 2.4 Product Elements

The Red Wing Cadaver Lifts are comprised of 3 main elements. Those elements are the front panel controls, hydraulic rising frame, and the roller top. The majority of this series is comprised of 304 stainless steel with a No. 4 stainless steel polish.

- Front Panel Controls
  - The front panel controls allows for the controller to raise or lower the lift as well as display the weight of the tray. It also includes an E-stop to allow for the rapid cut of power should it be needed.
- Hydraulic Rising Frame
  - The hydraulic rising frame use a single hydraulic piston to raise or lower the platform that can hold a tray. The frame has four 5" casters to allow for easy movement.

**⚠ CAUTION** The hydraulics should not be used until the lifts is at room temperature if stored in a cooler or location that is not consistent with the operating temperature of the environment. Failure to do so could result hydraulic failures, damaging the lifts or nearby personnel.

- Roller Top
  - The roller top of the lifts allow for the easy movement of body trays to and from the lifts to allow for movement of cadavers.

## 2.5 Warranty Statement

Products manufactured by Mopec will be free from defects in material and workmanship and conform to Mopec's description or specifications. If a warranty claim is made within one (1) year from the date of shipment or the date of installation (if installation is provided by Mopec), the defective or nonconforming Product or Part thereof will be repaired or (at Mopec's option) replaced free of charge, FCA Mopec's dock. All warranty claims must be in writing and received by Mopec within the warranty period. The warranty is not transferable (other than to customers of Mopec's authorized Distributors) and will not apply unless the Equipment has been properly installed, maintained, and operated in accordance with all instructions; and does not apply to defects, nonconformities, or other failure due to Equipment misuse, abuse, modifications, or other causes outside Mopec's control. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THE WARRANTY AS SET FORTH HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. To the extent that Mopec is acting as a supplier of Products manufactured by a third party, the Products will be warranted only to the extent that they are warranted by their manufacturers and Buyer (or its customer) agrees to look solely to the Product manufacturer for all warranty claims. For shipments outside the United States or Canada, as to any defective or non-conforming part, the part will be replaced upon return of the part to Mopec. Mopec will owe no obligation to perform any repair or to install any replacement part.

# 3 INSTALLATION

**Notice: If you have purchased installation from Mopec a Mopec Certified Technician or Contractor will cover section 3**

## 3.1 How to Unpackage your Lift

### 3.1.1 Check for freight damage:

- If the lift has sustained damage during transit or unloading from the carrier, file a freight claim.
  NOTICE Many large institutions use their own carrier. A freight claim would be filed with that provider.
- Check for damage to the skid that would result in an unsupported or twisted lift.
- Check that the sides of the crate have not been punctured or smashed.
- Check that the top of the crate has not sustained damage or has evidence of being placed upside down.
- Take photographs of any damage and contact Mopec or your private freight carrier if applicable.

### 3.1.2 Uncrating contents:

- Remove the top boards from the crate. Place in a dumpster or out of the way to dispose of later. Watch for staples, nails, and slivers of wood.
- Remove the sideboards, end boards, and plywood from the crate.
- Remove the corner posts of the crate. Pull downward and then sideways to break away from the base.
- Remove all the bracing at the bottom of the skid. Note the small 2”x 4” (5cm x 10cm) blocks nailed to prevent the lift from moving.
- Carefully cut the plastic wrap so the lift is not scratched, and the components are not damaged.
- Unwrap the plastic wrap and foam from the lift.
- Cut and remove the metal banding material securing the lift.
- Look the lift over for hidden damage. If found, take photos, and contact Mopec.

### 3.1.3 Transporting the lift to the desired location:

- Ensure the lift upright and ensure all wheels are in an unlocked position.
- Wheel the lift to the desired location and pay close attention when going over thresholds or entering and exiting elevators.
- Once in position, lock the wheels.

## 3.2 Decommissioning the Lift

**Notice: If you have purchased installation from Mopec a Mopec Certified Technician or Contractor will need to be utilized to maintain warranty status.**

### 3.2.1 Move the lift to a disposing location.

- Decontaminate the lift per your standard process
- Follow section 3.1.3 for moving instructions
- Move the lift to a designated disposal location

## 3.3 How to Store the Lift

- Decontaminate the lift per your standard processes
- Wipe WD40 on all stainless surfaces to protect from transfer rust
- Cover or drape the lift with a tarp

## 3.4 Disposal and Recycling

Disposal of the lift is ultimately up to local codes and guidelines. The following section breaks down the materials of construction for recycling purposes.

### 3.4.1 Stainless Steel

- The frame and tabletops are entirely made of stainless steel.

### 3.4.2 Wheels

- The wheels are made from a combination of rubber, plastic, and stainless steel.

### 3.4.3 Electronics

- The unit has internal circuitry, circuit boards, a touch screen, LED lighting, and relays are to be recycled as electronic components.

# 4 OPERATION/USE

## 4.1 Electrical System

Once the E-stop switch is in the “OFF” position, power is supplied to the elevation controls. These switches power up the relays that supply power to the pump motor. The polarity direction of the power feeding to the pump motor is controlled by the green push buttons. The E-stop also interrupts power to the scale unit if applicable or JD501, JD5000, and JD5001. The main push button breaker switch shuts off the power to all systems when pulled out. The breaker can be reset by twisting and pulling the E-Stop button out away from the controls.

### 4.1.1 Charging

Two sealed, deep-cycle 12-Volt batteries must be charged regularly to maintain the battery's charge. An integrated battery charger provides an enhanced charging method that will not overcharge the batteries when left connected. When the lift is not in use, it is recommended to be plugged into an outlet to maintain the battery charge to be ready for the next use. Mopec supplies an IEC C13 6’ (1.82m) hospital-grade cord that will connect to the side of the control panel and plug into a standard 110VAC (60Hz) outlet. This cord is intended to charge the batteries only and isn't designed to power the lift while it is in use. Disconnect the charging cord when operating.

Charging procedure:

- Plug the cord into the right side of the control panel
- Plug the charger power cord into the 110VAC power outlet
- Depressing the breaker allow power to flow from the cord to the rest of the system
- Press E-stop to prevent operation while charging

**⚠ WARNING** Do not use lift while battery is being charged, as this can cause damage to the battery charger and cause an electrical hazard.

### 4.1.2 Battering Life and Replacement Guide

- The JD5 series lift utilizes two Interstate SLA1156 12V 35Ah sealed lead acid (SLA) batteries in a 24V configuration. Under typical operating conditions, these batteries are designed to last 2 to 4 years. However, actual lifespan can vary based on usage frequency, charging habits, and environmental conditions.
- To ensure optimal performance and prevent unexpected downtime, we recommend implementing a proactive replacement interval of 3 years, especially in high-use environments. Regular battery inspection and testing should be a part of routine maintenance to identify signs of diminished capacity, such as slower lift operation or reduced charge retention.

### 4.1.3 First Power Up

Assuming there are no battery or structural failures, charge the battery before use. Charge time can vary; always refer to the LED status light to confirm if it is charge or fully charged. A red LED indicates it is charging, a green LED indicates it is fully charged. The indicator light can be found on the back of the elevation controls.

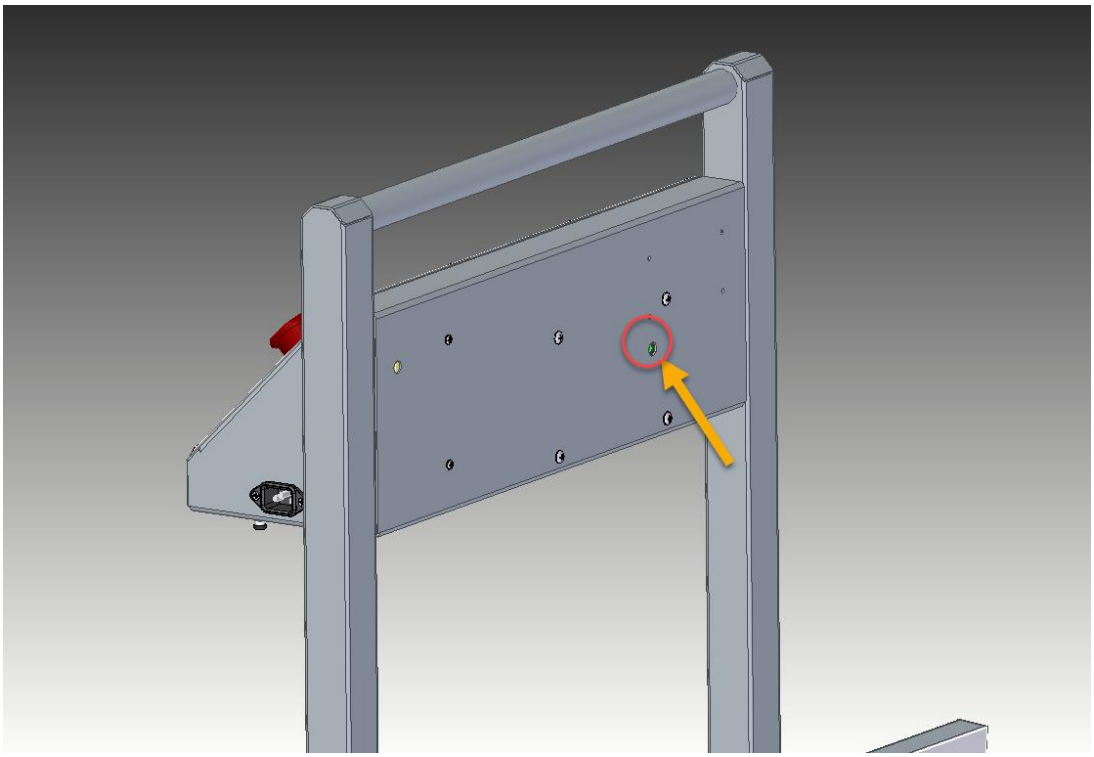


Figure 4-1 Indicator Light Position

## 4.2 Operation

The JD Series Lifts are simple to use. The console controls the basic operation of the lift. Pressing the up button raises the lift, and pressing the down button lowers the lift.

- While the freezer door is opened, move the lift as close to the rack/freezer as possible. If transferring to a cart, lock the casters
- Using the control console, elevate the lift to the proper height to receive the tray from the rack, freezer, or transport cart
- Fine tune the position of the lift to ensure a smooth transfer of the tray.
- Lock the casters to prevent the lift from moving while sliding the tray onto the lift.
- Slowly, manually slide the tray onto the lift and lock tray into place using the locking mechanism.
- Lower the lift to a height of 36” or lower for safe transportation
- Unlock the casters and move the lift away from the freezer
- In case of an emergency, press the E-stop button and turn the breaker to the off position. If the lift has an electrical or mechanical issue, remove the lift from operation and place a “Do Not Use” sign indicating that the unit is out of order.

⚠ **CAUTION** While raising or lowering the lift, please take care to avoid any moving parts as they can cause potential pinch points while the lift is in motion.

#### 4.2.1 Pushing the Lift

The lift is equipped with two steering assist black casters for improved steering and maneuverability, one for forward steering and one for side positioning. Braking casters have a steel finish color. When moving the lift, first depress down on the black steer caster with the black pedal, then push the unit from the handle. This will provide more control and maneuverability while the lift is in motion. The lift features a removable handle that can be placed on either side of the lift for convenience in any mortuary. To prevent tip over while moving or storing the lift, please note that it must be at a height of 36" or lower.

## 4.3 Locking the Lift Wheels

- To lock a wheel, press down on the front of the wheel's brake lever (tongue) with your foot until it locks into place.
- When locked, the front of the brake lever will be pressed down, and the rear of the lever will be raised.

## 4.4 Unlocking the Lift Wheels

- To unlock a wheel, press down on the rear of the brake lever (tongue) with your foot until the lock disengages.
- When unlocked, the brake lever will be level with the wheel, and both ends will appear flush and horizontal.

## 4.5 Scale System for JD501, JD5000, and JD5001

The scale system uses four load cells, a summing board and a weight indicator. This system is the same type of system as used in floor industrial scales, providing a robust and repeatable measurement when used properly. The scale system is calibrated prior to shipping. Yearly inspection is recommended and calibrate as needed.

#### 4.5.1 Calibration

- Press and release the HOLD and PRINT buttons to enter calibration mode
- Press ENTER (Print), adjust the screen to read Co 2 using the arrow keys
- Press ENTER (Print), adjust the screen to read C2 0 using the arrow keys
- Press ENTER (Print) 2X, adjust screen to read C3 1 using the arrow keys
- Press ENTER (Print) 2X, adjust screen to read 000750 to maximum weight using the arrow keys
- Press ENTER (Print) 2X, adjust screen to read C5 1 using the arrow keys
- Press ENTER (Print), the scale should go into countdown 10 to 0
- After the countdown, press ENTER (PRINT) 2X, adjust the screen to read C6 1 using the arrow keys
- The word "span" will flash across the screen when down. Enter the known weight to be used in calibration (at least 10% of maximum weight) using the arrow keys
- Place weight on scale and press ENTER (PRINT)
- Scale will display a countdown 10 to 0. After the countdown is complete, the scale will read "CAL End"
- Remove weight
- Press ENTER (PRINT)
- Press ACCUM button to exit calibration

# 5 MAINTENANCE

## 5.1 Stainless Steel Maintenance & Cleaning

### 5.1.1 Disinfecting stainless steel

All stainless-steel surfaces can be cleaned with soap and water to remove tissue and debris. The stainless-steel surfaces can be disinfected with a non-caustic disinfectant.

- Always wipe in the direction of the stainless-steel grain.
- Most disinfectants must be followed up with a water rinse to remove the salts that remain after these products dry. Always follow up a disinfection cleaning with a thorough rinse of water.
- DO NOT USE a straight bleach solution to clean your lift. Bleach will eventually erode stainless steel if not thoroughly rinsed.
    - Erosion from chlorine bleach is detectable and will void the warranty.
    - If your process must use chlorine bleach it must not exceed 10% and must be rinsed immediately after disinfection to avoid damage to the metal.

### 5.1.2 Stainless care and maintenance

To maintain your Stainless-steel product, follow these steps:

- Rinse the surfaces with water frequently.
- Do not touch the surfaces with oily hands.
- Always use soft abrasive fine grit pads such as Scotch-Brite™ Surface Conditioning Pad (Fine Grade) to clean grime in the direction of the metal grain.
- Once clean, condition your stainless surfaces with WD40 lubricant or Stainless-steel polish.

### 5.1.3 Use of DECAL

When a Decal solution is used a brown rust ring along with a milky white substance can deposit on the surface. Decal is very harsh, even the fumes can cause staining on stainless steel. Consider placing the Decal container you currently use inside a plastic base that will help catch drips that might occur.

- Clean and rinse your lift after every use of the Decal solution.

### 5.1.4 Rust and oxidation formation

Rust can and will occur on stainless steel if it is not maintained properly. The most common cause of rust is from using a ferrous material on or near the lift. This is referred to as "transfer rust". Salts from cleaners or disinfectants can extract ferrous materials and deposit or transfer them to stainless steel. Please see the following for an example of transfer rust.

Always rinse all disinfectants before they dry. Decal solutions and fumes are very aggressive and can deposit rust if not cleaned. Formalin use has not been shown to cause rust but it does contain salts and therefore can deposit rust.

There are a few ways to remove rust should you develop it.

- Vinegar – Pour White Vinegar on the rust and let it soak for 5 minutes. Scrub with a soft brush (like a toothbrush) Rinse with water and wipe dry.
- Lemon Juice & Baking Soda – Mix equal parts of each into a paste and spread over the affected area. Let it set for 30 minutes before washing away with a damp sponge. Repeat as necessary.
- Rust Remover – as a last resort try a chemical cleaner like Magica Rust Remover Magica Rust Remover | Best Rust Removal Products, and follow the instructions.

### 5.1.5 Scratch repair

A surface scratch can be repaired using the following technique. Completely removing a scratch will depend on how severe it is.

- Use Scotch-Brite™ Clean-N-Strip (Medium Grade) abrasive grit pads and apply firm pressure to sand the scratch.
- Sanding must always go in the direction of the grain. Sand in a perfectly straight line, avoiding the natural tendency to sand in an arc. Sand the surface until the scratch is gone.
- Polish using a very fine grade of Scotch-Brite™ Surface Conditioning Pad. Use the same motions as with sanding. Polish the surface until the original finish is restored.

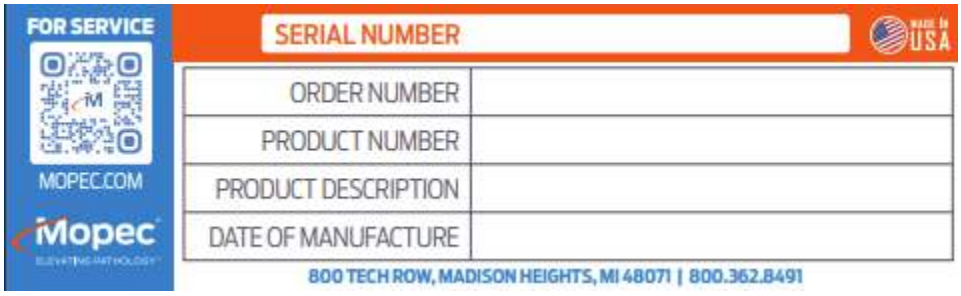
### 5.1.6 Fingerprints and solvent cleaning

The most common surface contaminants that occur from normal use are fingerprints and mild stains. These usually affect only appearance and do not affect corrosion resistance. They can easily be removed by a variety of simple cleaning methods.

- Fingerprints can be removed with a common glass cleaner or by gently rubbing with a paste of soda ash (sodium carbonate) and water which would be applied with a soft cloth. It is best to follow with a warm water rinse.

## 5.2 Mopec Service

PLEASE have the following information available BEFORE you call from your lift ID tag or original order or quote.




Product Model Number: *Example:* JD500
Product Serial Number: *Example:* JD5000-0-140203-001

Call 1-800-362-8491 and follow the prompts. Or email us at customerservice@mopec.com.

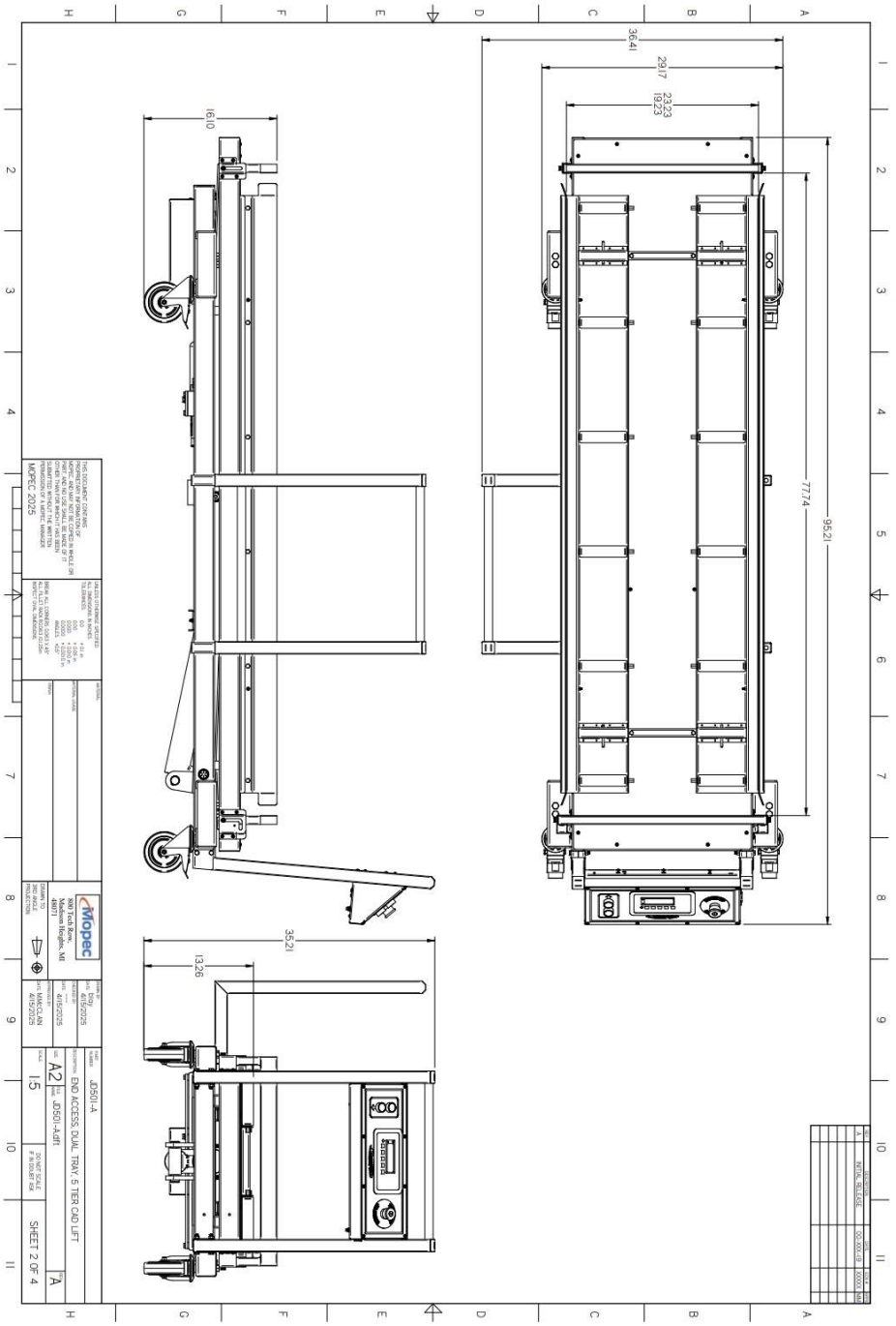
# 6 TROUBLESHOOTING AND REPAIR

## 6.1 How to Identify and Solve Problems

| Error / Issue / Failure | Cause | Solution |
|---|---|---|
| **Mechanical Failures** | | |
| The unit is tilting towards one side, front, or back | Wheel has broken, worn, or is missing | Replace the problematic wheel with a new wheel. |
| The unit will not move | A wheel (s) has rusted internally. | Replace the problematic wheel(s) with a new wheel. |
| The unit doesn't lift | Low battery voltage | Plug the cable into the side of the unit and into a nearby outlet to charge<br>Replace the batteries |
| | Breaker tripped | Reset breaker |
| | Pump motor inoperable | Test and replace the pump if required |
| E-stop not working | Defective E-stop button | Replace E-stop |
| | Stuck relay | Replace relays |
| Breaker Tripping | Motor short | Replace the motor |
| | Short in wiring | Replace the relays |
| | Defective breaker | Replace the breaker |
| The unit is moving and lifting very slowly | Low hydraulic fluid | Add fluid to recommended levels |
| | Damaged relays | Replace relays |
| | Damaged pump | Replace pump |
| | Damaged pump motor | Replace motor |
| Scale is not showing accurate weights (JD501, 5000, and 5001) | Damaged load cell | Troubleshoot and replace |
| | Damaged summing board | Troubleshoot and replace |
| | Damaged indicator | Troubleshoot and replace |
| | Need calibration | Calibrate |

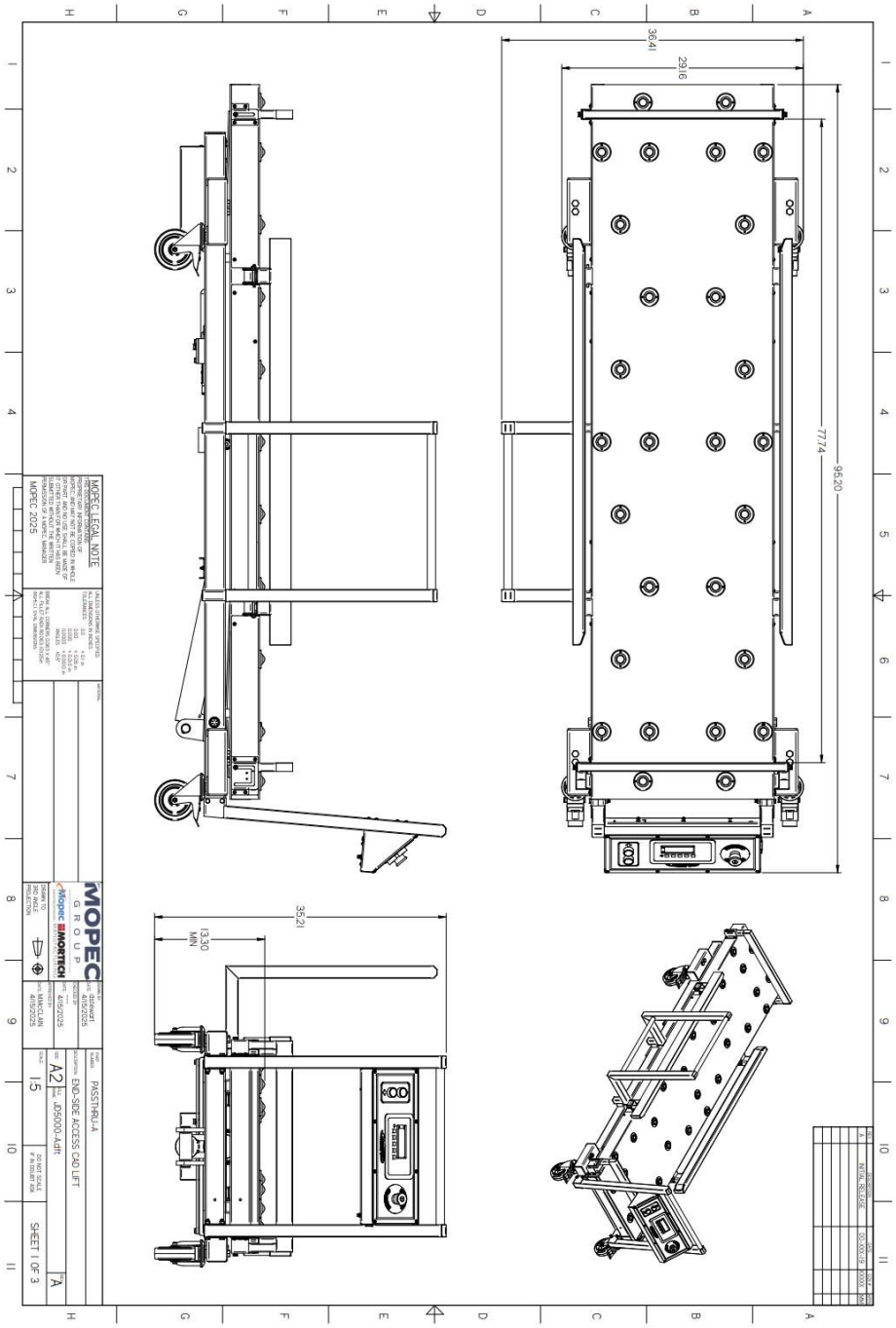
# 7 DOCUMENTATION

## 7.1 Sample Rough-in Drawing JD501



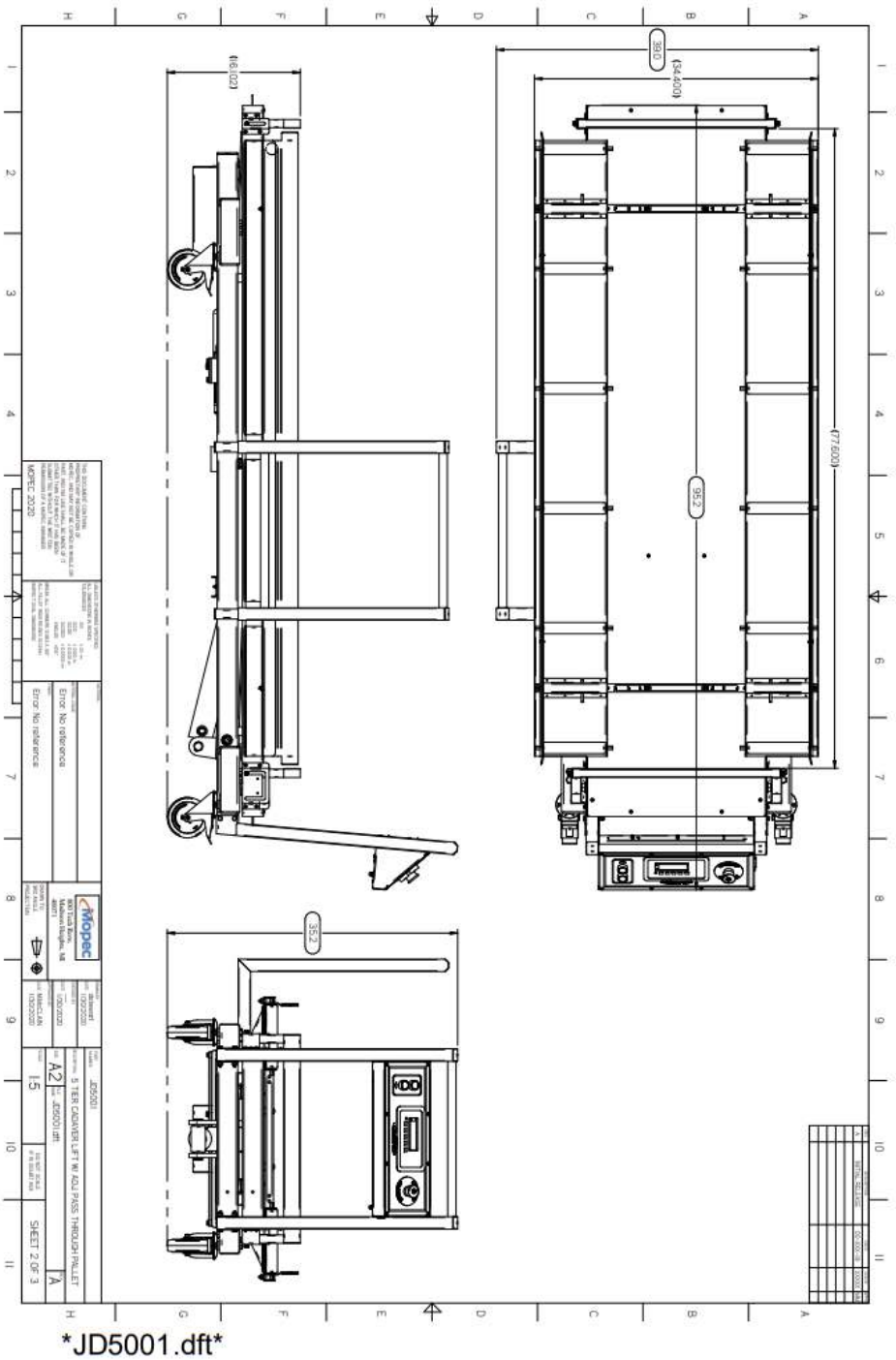

*JD501-A.dft*

## 7.2 Sample Rough-in Drawing JD5000

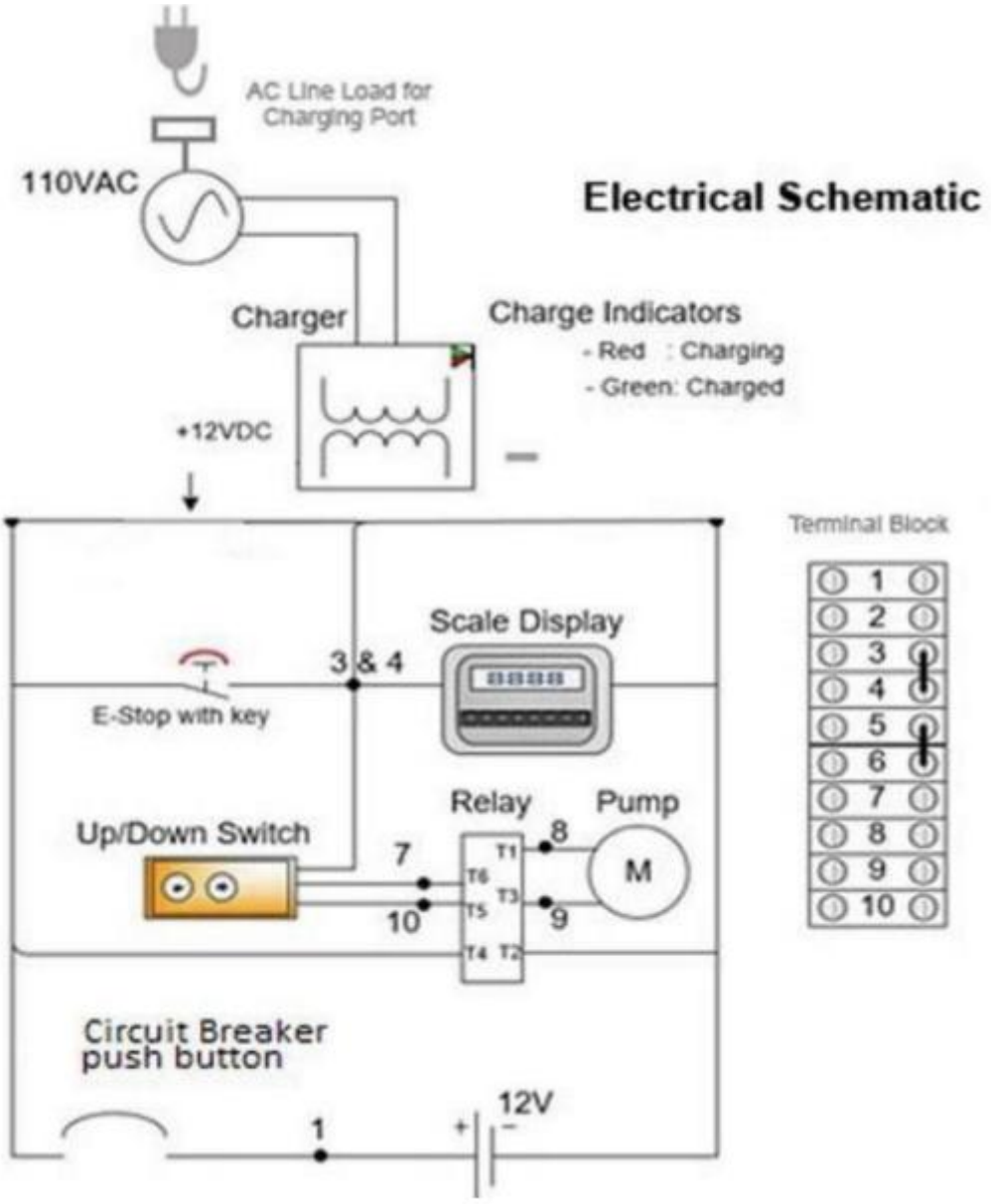



*JD5000-A.dft*

## 7.3 Sample Rough-in Drawing JD5001



## 7.4 Electrical Diagram



# 8 APPENDICES

## 8.1 Spare Parts

| General Part Description | Mopec # | Use(s) |
|---|---|---|
| Transfer roller | PM0612 | Tray transfer roller ball |
| Caster | PD0059 | Locking caster |
| Steer Lock Caster | PB0039 | Lock steering caster |
| Screw 8-32 Truss ½" lg. | PB0039 | Various |
| 7-7/16" Roller | PM0530 | 7-7/16" Roller |
| **Electrical Part Description** | **Mopec #** | **Use(s)** |
| Reversing relay | PE0647 | Reversing relay |
| Scale display | PE0771 | Scale display |
| Load cell | PE0459 | Scale load cell |

## 8.2 Consumables

| Part Description | Mopec # | Use(s) |
|---|---|---|
| SaniPath Disinfecting Wipes | BE036 | Disinfection wipes |
| SaniPath Disinfecting Spray | BE047 | Disinfection spray cleaner |
| ClearSteel Stainless Spray | BE048 | Stainless steel cleaner and polish spray |
| SaniPath Disinfectant Foam Spray | BE045 | Disinfectant foaming spray |
| ClearSteel Stainless Wipes | BE039 | Stainless steel cleaner and polishing wipes |

# 9 APPROVAL

By signing this document, I verify the contents are an accurate representation of the product.

Engineering Approval:

Signature: _____ Date: _____

Marketing Approval:

Signature: _____ Date: _____