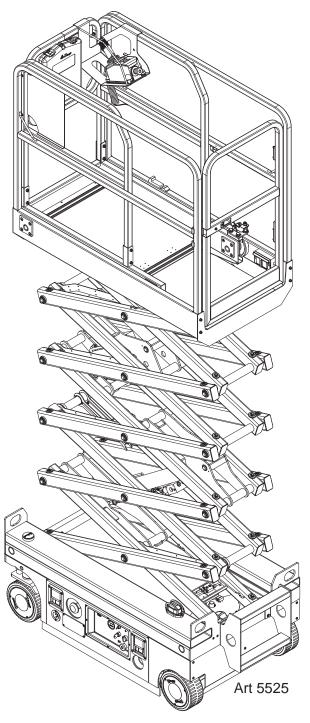


Service & Parts Manual

Micro19



Meets requirements of ANSI A92.20-2020 and CSA B354.6-2019.

Serial Number Range 16911000 - Up

Part # 95843 August 2024

Revision History

| Date | Reason for Update |
|--------------|--|
| October 2021 | New Release |
| August 2023 | Added new style Drive Wheel Assembly with serial numbers Added new style Steer Linkage with serial numbers Added new style Wheels Assembly with serial numbers |
| May 2024 | Added part #48181 to old Drive Wheel Assembly |
| August 2024 | Updated Calibrate Height instructions |



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Chapter 1 - Service August 2024

Service Introduction

This Service section is designed to provide you, the customer, with the instructions needed to properly maintain the MEC self-propelled aerial work platform. When used in conjunction with the illustrated Parts section in this manual and the Operator's Manual (provided separately), this manual will assist you in making necessary adjustments and repairs, and identifying and ordering the correct replacement parts.

All parts represented here are manufactured and supplied in accordance with MEC quality standards. We recommend that you use genuine MEC parts to ensure proper operation and reliable performance.

To obtain maximum benefits from your MEC Aerial Work Platforms, always follow the proper operating and maintenance procedures. Only trained authorized personnel should be allowed to operate or service this machine. Service personnel should read and study the Operator's, and the Service and Parts Manuals in order to gain a thorough understanding of the unit prior to making any repairs.

MEC Operator Policy

Note: The best method to protect yourself and others from injury or death is to use common sense. If you are unsure of any operation, **don't start** until you are satisfied that it is safe to proceed and have discussed the situation with your supervisor.

Service personnel and machine operators must understand and comply with all warnings and instructional decals on the body of the machine, at the ground controls, and platform control console.



MODIFICATIONS OF THIS MACHINE FROM THE ORIGINAL DESIGN AND SPECIFICATIONS WITHOUT WRITTEN PERMISSION FROM MEC ARE STRICTLY FORBIDDEN. A MODIFICATION MAY COMPROMISE THE SAFETY OF THE MACHINE, SUBJECTING OPERATOR(S) TO SERIOUS INJURY OR DEATH.

MEC's policies and procedures demonstrate our commitment to Quality and our relentless ongoing efforts towards Continuous Improvement, due to which product specifications are subject to change without notice.

Any procedures not found within this manual must be evaluated by the individual to assure oneself that they are "proper and safe."

Your MEC Aerial Work Platform has been designed, built, and tested to provide many years of safe, dependable service. Only trained, authorized personnel should be allowed to operate or service the machine.

MEC, as manufacturer, has no direct control over machine application and operation. Proper safety practices are the responsibility of the user and all operating personnel.

If there is a question on application and/or operation, contact MEC Aerial Work Platforms:



MEC Aerial Work Platforms

1401 S. Madera Avenue, Kerman, CA 93630 USA

Toll Free: 1-877-632-5438 Phone: 1-559-842-1500 Fax: 1-559-842-1520 info@MECawp.com www.MECawp.com



Safety Symbols & General Safety Tips

MEC manuals and decals use symbols, colors and signal words to help you recognize important safety, operation and maintenance information.



RED and the word DANGER – Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



ORANGE and the word WARNING – Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



YELLOW with alert symbol and the word CAUTION – Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



YELLOW without alert symbol and the word CAUTION – Indicates a potentially hazardous situation which, if not avoided, may result in property damage.



GREEN and the word **NOTICE** – Indicates operation or maintenance information.

Regular inspection and constant maintenance is the key to efficient economical operation of your aerial work platform. It will help to assure that your equipment will perform satisfactorily with a minimum of service and repair.

The actual operating environment of the machine governs the inspection schedule. Correct lubrication is an essential part of the preventative maintenance to minimize wear on working parts and ensure against premature failure. By maintaining correct lubrication, the possibility of mechanical failure and resulting downtime is reduced to a minimum.

- Never leave hydraulic components or hoses open. They must be protected from contamination (including rain) at all times.
- Never open a hydraulic system when there are contaminants in the air.
- Always clean the surrounding area before opening hydraulic systems.
- Use only recommended lubricants. Improper lubricants or incompatible lubricants may be as harmful as no lubrication.
- Watch for makeshift "fixes" which can jeopardize safety as well as lead to more costly repair.



Bolt Torque Specification - American Standard

Fasteners

Use the following values to apply torque unless a specific torque value is called out for the part being used.

| American Standard Cap Screws | | | | | | | | |
|------------------------------|------|------|----------|------|------|-------------------------|----------|------|
| SAE Grade | | į. | 5 | | | | В | |
| Cap Screw | | | ART_5816 | | | $\langle \cdot \rangle$ | ART_5816 | |
| Size (Inches) | | | que | | | Tor | que | |
| | Ft- | lbs | N | m | Ft- | lbs | N | m |
| | Min | Max | Min | Max | Min | Max | Min | Max |
| 1/4 - 20 | 6.25 | 7.25 | 8.5 | 10 | 8.25 | 9.5 | 11 | 13 |
| 1/4 - 28 | 8 | 9 | 11 | 12 | 10.5 | 12 | 14 | 16 |
| 5/16 - 18 | 14 | 15 | 19 | 20 | 18.5 | 20 | 25 | 27 |
| 5/16 - 24 | 17.5 | 19 | 12 | 26 | 23 | 25 | 31 | 34 |
| 3/8 - 16 | 26 | 28 | 35 | 38 | 35 | 37 | 47.5 | 50 |
| 3/8 - 24 | 31 | 34 | 42 | 46 | 41 | 45 | 55.5 | 61 |
| 7/16 - 14 | 41 | 45 | 55.5 | 61 | 55 | 60 | 74.5 | 81 |
| 7/16 - 20 | 51 | 55 | 69 | 74.5 | 68 | 75 | 92 | 102 |
| 1/2 - 13 | 65 | 72 | 88 | 97.5 | 86 | 96 | 116 | 130 |
| 1/2 - 20 | 76 | 84 | 103 | 114 | 102 | 112 | 138 | 152 |
| 9/16 - 12 | 95 | 105 | 129 | 142 | 127 | 140 | 172 | 190 |
| 9/16 - 18 | 111 | 123 | 150 | 167 | 148 | 164 | 200 | 222 |
| 5/8 - 11 | 126 | 139 | 171 | 188 | 168 | 185 | 228 | 251 |
| 5/8 - 18 | 152 | 168 | 206 | 228 | 203 | 224 | 275 | 304 |
| 3/4 - 10 | 238 | 262 | 322 | 255 | 318 | 350 | 431 | 474 |
| 3/4 - 16 | 274 | 302 | 371 | 409 | 365 | 402 | 495 | 544 |
| 7/8 - 9 | 350 | 386 | 474 | 523 | 466 | 515 | 631 | 698 |
| 7/8 - 14 | 407 | 448 | 551 | 607 | 543 | 597 | 736 | 809 |
| 1 - 8 | 537 | 592 | 728 | 802 | 716 | 790 | 970 | 1070 |
| 1 - 14 | 670 | 740 | 908 | 1003 | 894 | 987 | 1211 | 1137 |

Torque values apply to fasteners as received from the supplier, dry or when lubricated with normal engine oil.

If special graphite grease, molydisulphide grease, or other extreme pressure lubricants are used, these torque values do not apply.

Bolt Torque Specification - Metric Standard

Fasteners

Use the following values to apply torque unless a specific torque value is called out for the part being used.

| Metric Cap Screws | | | | | | | | | |
|-------------------|-----|--------------|------|------|------|--------|------|------|--|
| Metric Grade | | 8 | .8 | | 10.9 | | | | |
| Cap Screw Size | | 8.8 ART 5816 | | | | (10.9) | | | |
| (Millimeters) | | Tor | que | | | Tor | que | | |
| | Ft- | lbs | N | m | Ft- | lbs | N | m | |
| | Min | Max | Min | Max | Min | Max | Min | Max | |
| M6 × 1.00 | 6 | 8 | 8 | 11 | 9 | 11 | 12 | 15 | |
| M8 × 1.25 | 16 | 20 | 21.5 | 27 | 23 | 27 | 31 | 36.5 | |
| M10 × 1.50 | 29 | 35 | 39 | 47 | 42 | 52 | 57 | 70 | |
| M12 × 1.75 | 52 | 62 | 70 | 84 | 75 | 91 | 102 | 123 | |
| M14 × 2.00 | 85 | 103 | 115 | 139 | 120 | 146 | 163 | 198 | |
| M16 × 2.50 | 130 | 158 | 176 | 214 | 176 | 216 | 238 | 293 | |
| M18 × 2.50 | 172 | 210 | 233 | 284 | 240 | 294 | 325 | 398 | |
| M20 × 2.50 | 247 | 301 | 335 | 408 | 343 | 426 | 465 | 577 | |
| M22 × 2.50 | 332 | 404 | 450 | 547 | 472 | 576 | 639 | 780 | |
| M24 × 3.00 | 423 | 517 | 573 | 700 | 599 | 732 | 812 | 992 | |
| M27 × 3.00 | 637 | 779 | 863 | 1055 | 898 | 1098 | 1217 | 1488 | |
| M30 × 3.00 | 872 | 1066 | 1181 | 1444 | 1224 | 1496 | 1658 | 2027 | |

Torque values apply to fasteners as received from the supplier, dry or when lubricated with normal engine oil.

If special graphite grease, molydisulphide grease, or other extreme pressure lubricants are used, these torque values do not apply.

Hydraulic Components Torque Table

Note: Always lubricate threads with clean hydraulic fluid prior to installation.

Use the following values to torque hydraulic components when a specific value is not available. Always check for torque values in the following places before relying on the Hydraulic Components Torque Table.

- Parts drawings and service instructions in this manual.
- Packaging and instruction sheets provided with new parts.
- Instruction manuals provided by the manufacturer of the component being serviced.

| SAE Port Series | Cartridge | e Poppet | Fitti | ings | Hoses | | |
|-----------------|-----------|-----------|-----------|-----------|-------------|-----------|--|
| SAE POIL Series | Ft-lbs | Ft-lbs Nm | | Nm | In-lbs | Nm | |
| #4 | N/A | N/A | N/A | N/A | 135 - 145 | 15 - 16 | |
| #6 | N/A | N/A | 10 - 20 | 14 - 27 | 215 - 245 | 24 - 28 | |
| #8 | 25 - 30 | 31 - 41 | 25 - 30 | 34 - 41 | 430 - 470 | 49 - 53 | |
| #10 | 35 - 40 | 47 - 54 | 35 - 40 | 47 - 54 | 680 - 750 | 77 - 85 | |
| #12 | 85 - 90 | 115 - 122 | 85 - 90 | 115 - 122 | 950 - 1050 | 107 - 119 | |
| #16 | 130 - 140 | 176 - 190 | 130 - 140 | 176 - 190 | 1300 - 1368 | 147 - 155 | |



Specifications

| | | | T. | | |
|-------------------------------|------------------------------|------------------------------|----------------------------|--|--|
| Working Height* | Indoor | 24 ft 4 in | 7.6 m | | |
| | Outdoor | 21 ft | 6.4 m | | |
| Platform Height | Indoor | 18 ft 4 in | 5.6 m | | |
| Outdoor | | 15 ft | 4.6 m | | |
| Maximum Drive Height | | 18 ft 4 in | 5.6 m | | |
| Stowed Height | Top Guardrail | 79 in | 2.0 m | | |
| Stowed Height | Platform Floor | 35 in | 0.9 m | | |
| Platform Extension Length | | 23.6 in | 0.6 m | | |
| Machine Weight** (Unloaded | d) | 2,750 lb | 1,247 kg | | |
| Maximum Lift Capacity | | 500 lb | 227 kg | | |
| Deck Extension Capacity | | 250lb (| 113 kg) | | |
| Maximum Occupanta | Indoor | 2 Pe | erson | | |
| Maximum Occupants | Outdoor | 1 Pe | erson | | |
| Manual Fana | Indoor | 90 lbs | 400 N | | |
| Manual Force | Outdoor | 45 lbs | 200 N | | |
| Platform Length (Extended) | | 78 in | 2.0 m | | |
| Platform Length (Retracted) | | 54 in | 1.4 m | | |
| Width (Overall) | | 32 in | 0.81 m | | |
| Platform Dimensions (Lengt | h × Width) | 53.9 × 27.6 in | 1.37 × 0.7 m | | |
| Wheel Base | | 44.5 in | 1.13 m | | |
| Turning Radius - Inside | | 17.7 in | 0.45 m | | |
| Ground Clearance - Stowed | | 2.4 in | 6 cm | | |
| Ground Clearance - Elevate | d | 0.6 in | 1.5 cm | | |
| Drive Creed (Drese artists a) | Stowed | 0-2.5 mph | 0-4 km/h | | |
| Drive Speed (Proportional) | Raised/Extended | 0-0.5 mph | 0-8 km/h | | |
| Gradability | | 25% | (14°) | | |
| Maximum Side Slope - Stow | red | 5° | | | |
| Ground Pressure/Wheel | Min/Max | 85/114 psi | 6.0/8.0 kg/cm ² | | |
| Maximum Wheel Load | | 975 lb | 442 kg | | |
| Ossumiad Flass Drassums | Full Load Platform Retracted | 244 psf | 1,191 kg/m² | | |
| Occupied Floor Pressure | Platform Deck Extended | 174 psf | 849 kg/m ² | | |
| Maximum Operating Wind S | peed | 28 mph | 12.5 m/sec (45 km/h) | | |
| Tire Size | | 9 × 4 in | 230 × 100 mm | | |
| Wheel Nut Torque | | 166.7 ft-lb / 226 Nm, S | Secured with cotter pin | | |
| Hydraulic Pressure | | 2,320 psi | 160 bar | | |
| Power System Voltage | | 24 Vo | olt DC | | |
| | Input | 110-230 V A | C, 50-60 Hz | | |
| Battery Charger | Output | | olt DC | | |
| Batteries | | Two 12-Volt Deep Cycle 115Ah | | | |
| Chassis Inclination | | | 3.0 Inline | | |
| Meets requirements of ANSI | A02 20 2020 and CCA D254 6 | · · | | | |

Meets requirements of ANSI A92.20-2020 and CSA B354.6-2019.



^{*}Working Height adds 6 feet (2 meters) to platform height.

^{**}Weight may increase with certain options.

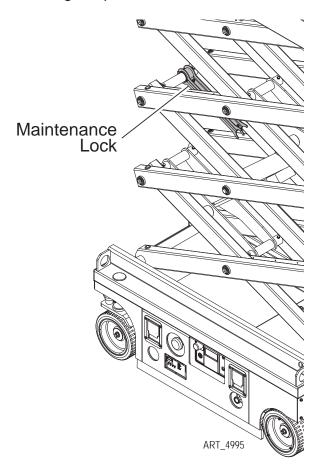
Maintenance Lock

DEATH OR SERIOUS INJURY HAZARD!



NEVER PERFORM WORK OR INSPECTION ON THE MACHINE WITH THE PLATFORM ELEVATED WITHOUT FIRST BLOCKING THE SCISSOR ASSEMBLY WITH THE MAINTENANCE LOCK.

- 1. Raise the platform approximately 8 feet (2.5 meters) from the ground.
- 2. Rotate the Maintenance Lock away from the machine and let it hang down.
- 3. Lower the platform until the Maintenance Lock rests securely on the link. Keep clear of the Maintenance Lock when lowering the platform.





Machine Systems

Hydraulic System



HYDRAULIC FLUID UNDER PRESSURE CAN PENETRATE AND BURN SKIN, DAMAGE EYES, AND MAY CAUSE SERIOUS INJURY, BLINDNESS, AND EVEN DEATH.

CORRECT LEAKS IMMEDIATELY.



Hydraulic fluid leaks under pressure may not always be visible. Check for pin hole leaks with a piece of cardboard, not your hand.

Electrical System



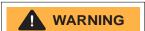
Prevent damage to battery and/or electrical system;

- Always disconnect the negative battery cable first.
- Always connect the positive battery cable first.

When the negative cable is installed, a spark will occur if contact is made between the positive side of the battery and a metal surface on the machine. This can cause damage to the electrical system, battery explosion, and personal injury.

Total System

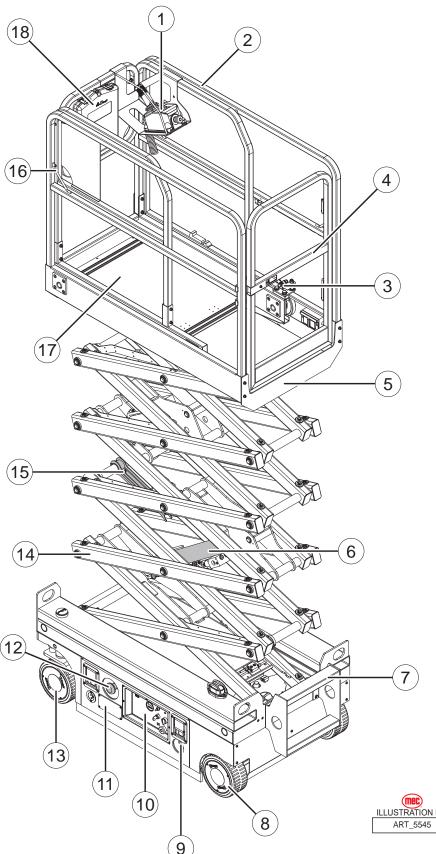
FAILURE TO PERFORM PREVENTIVE MAINTENANCE AT RECOMMENDED INTERVALS MAY RESULT IN THE UNIT BEING OPERATED WITH A DEFECT THAT COULD RESULT IN INJURY OR DEATH OF THE OPERATOR.



IMMEDIATELY REPORT TO YOUR SUPERVISOR ANY DEFECT OR MALFUNCTION. ANY DEFECT SHALL BE REPAIRED PRIOR TO CONTINUED USE OF THE AERIAL WORK PLATFORM.

INSPECTION AND MAINTENANCE SHOULD BE PERFORMED BY QUALIFIED PERSONNEL FAMILIAR WITH THE EQUIPMENT.

Primary Machine Components



- 1) Platform Controller
- 2) Platform Guard Rails
- 3) Platform Extension Release Pedal
- 4) Platform Entry Gate
- 5) Main Platform
- 6) Lift Cylinder
- 7) Entry Ladder
- 8) Drive Wheels
- 9) Emergency Lowering Knob
- 10) Ground Control Panel
- 11) Batteries Charger
- 12) Main Power Switch
- 13) Steer Wheels
- 14) Scissor
- 15) Safety Arms
- 16) Lanyard Anchorage Point
- 17) Platform Extension
- 18) Manual Storage Container

Emergency Systems and Procedures



IF THE CONTROL SYSTEM FAILS WHILE THE PLATFORM IS ELEVATED, HAVE AN EXPERIENCED OPERATOR USE THE EMERGENCY LOWERING PROCEDURE TO SAFELY LOWER THE PLATFORM.

DO NOT ATTEMPT TO CLIMB DOWN ELEVATING ASSEMBLY.

Emergency Stop

The machine is equipped with an EMERGENCY STOP switch at the base controls and the platform control box.

- Press the EMERGENCY STOP switch at any time to stop all machine functions.
- Pull switch to reset.
- Either switch will stop all machine functions.
- Both switches must be reset or machine will not operate.



Emergency Lowering



IF THE CONTROL SYSTEM FAILS WHILE THE PLATFORM IS ELEVATED, USE THE EMERGENCY LOWERING PROCEDURE TO SAFELY LOWER THE PLATFORM.

DO NOT CLIMB DOWN THE ELEVATING ASSEMBLY OR EXIT THE PLATFORM.

The Emergency Lowering System is used to lower the platform in case of power failure.

To lower the platform, pull the Emergency Lowering Knob, located near the Base Control panel.



Free-Wheel Configuration for Winching or Towing

RUNAWAY HAZARD!



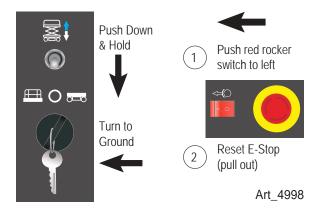
AFTER RELEASING THE BRAKES THERE IS NOTHING TO STOP MACHINE TRAVEL. MACHINE WILL ROLL FREELY ON SLOPES.

ALWAYS CHOCK THE WHEELS BEFORE MANUALLY RELEASING THE BRAKES.

The machine can be winched or towed short distances at speeds not to exceed 2.5mph (4km/h). Before towing or winching the machine, it is necessary to release the brakes. Reset the brakes after towing or winching.

Disengage Brakes Before Towing Or Winching

- 1. Chock the wheels.
- 2. Turn the Key Switch to the Off position (pushed in).
- 3. Pull the Red Emergency Stop button out to the On position (pulled out) at both the ground and platform controls.
- 4. At the Ground Controls panel, push and hold the red rocker switch to the left & push down and hold the Platform Lift Switch.
- 5. An alarm will sound, signaling that the brakes have been released.



Resetting Brakes

Push in the Emergency Stop button or turn the Key Switch to the Off position to reset the brakes.



BE SURE THAT THE BRAKES ARE ENGAGED BEFORE REMOVING THE WHEEL CHOCKS.



Lift and Support the Machine



DEATH OR SERIOUS PERSONAL INJURY MAY RESULT FROM THE USE OF SUBSTANDARD LIFTING DEVICES AND/OR JACK STANDS. ENSURE THAT ALL LIFTING DEVICES AND JACK STANDS ARE OF ADEQUATE CAPACITY AND IN GOOD WORKING CONDITION BEFORE USE.

The following are needed to safely lift and support the machine;

- A jack with a lifting capacity of two (2) tons or more.
- Jack stands with a rating of two (2) tons or more.

To Raise the Machine

- 1. Move machine to a firm level surface capable of supporting the weight of the machine.
- 2. Chock tires on one end of machine and raise the other end of machine.
- 3. Position a jack at the end of the machine to be lifted, under a solid lifting point in the center of the frame.
- 4. Raise the machine and place two (2) suitable jack stands under solid support points at the outer ends of the frame.
- 5. Lower the machine to rest on the jack stands and inspect for stability.

To Lower the Machine

- 1. Raise machine slightly and remove jack stands.
- 2. Lower the machine and remove the jack.
- 3. Remove chocks.



General Machine Maintenance

Instructions in this portion of the manual are to be used in conjunction with the Pre-Start, Frequent and Annual Inspection checklists found in this machine's Operator's Manual.

IMPORTANT: Scheduled maintenance inspection checklists are included in the Operator's Manual for use only by qualified service technicians. Only qualified service technicians may perform repairs to the machine. After repairs are completed, the operator must perform a Pre-Start Inspection before proceeding to the Functions Test.



HYDRAULIC FLUID UNDER PRESSURE CAN PENETRATE AND BURN SKIN, DAMAGE EYES, AND MAY CAUSE SERIOUS INJURY, BLINDNESS, AND DEATH. REPAIR LEAKS IMMEDIATELY. FLUID LEAKS UNDER PRESSURE MAY NOT ALWAYS BE VISIBLE. CHECK FOR PIN HOLE LEAKS WITH A PIECE OF CARDBOARD, NOT YOUR HAND.

NEVER PERFORM WORK OR INSPECTION ON THE MACHINE WITH THE PLATFORM ELEVATED WITHOUT FIRST BLOCKING THE SCISSOR ASSEMBLY WITH THE MAINTENANCE LOCK (SEE THE INTRODUCTION PORTION OF THIS MANUAL).



PERFORM SCHEDULED MAINTENANCE AT RECOMMENDED INTERVALS. FAILURE TO PERFORM SCHEDULED MAINTENANCE AT RECOMMENDED INTERVALS MAY RESULT IN A DEFECTIVE OR MALFUNCTIONING MACHINE AND MAY RESULT IN INJURY OR DEATH OF THE OPERATOR. KEEP MAINTENANCE RECORDS CURRENT AND ACCURATE.

IMMEDIATELY REPORT ANY DAMAGE, DEFECT, UNAUTHORIZED MODIFICATION OR MALFUNCTION TO YOUR SUPERVISOR. ANY DEFECT MUST BE REPAIRED PRIOR TO CONTINUED USE. DO NOT USE A DAMAGED, MODIFIED OR MALFUNCTIONING MACHINE.

Never leave hydraulic components or hoses open. Plug all hoses and fitting immediately after disassembly to protect the system from outside contamination (including rain).

Never open a hydraulic system when there are contaminants in the air.

Always clean the surrounding area before opening hydraulic systems.



Use only recommended lubricants. Improper lubricants or incompatible lubricants may cause as much damage as no lubrication.

Watch for makeshift "fixes" which can jeopardize safety as well as lead to more costly repair.

Inspection and maintenance should be performed by qualified personnel familiar with the equipment.

Pre-Start Inspection Checklist

Items on this checklist should be inspected before each work shift. Refer to the Operator's Manual.

30-Day Service

The 30 day maintenance procedure is a **one-time** procedure to be performed after the first 30 days or 40 hours of usage.

Maintaining the tires and wheels in good condition is essential to safe operation and good performance. Tire and/or wheel failure could result in a machine tip-over. Component damage may also result if problems are not discovered and repaired in a timely fashion.

- 1. Check the tire surface and sidewalls for cuts, cracks, punctures and unusual wear.
- 2. Check each wheel for damage, bends and cracks.
- 3. Remove the wheel covers and check each center lock nut for proper torque and presence of cotter pin.

| Front | | | | |
|-------------------------------|-----------------------|--|--|--|
| Castle Nut Torque, Dry | 166.7 ft-lbs (226 Nm) | | | |
| Castle Nut Torque, Lubricated | 125.4 ft-lbs (170 Nm) | | | |

| | | Back |
|----|-------|--------------------|
| Lo | cknut | 100ft-lbs (135 Nm) |

Frequent Inspection Checklist



THIS CHECKLIST MUST BE USED AT 3-MONTH INTERVALS OR EVERY 150 HOURS OF MACHINE USE, WHICHEVER OCCURS FIRST. FAILURE TO DO SO COULD RESULT IN DEATH OR SERIOUS INJURY.

Frequent Maintenance Inspections should be conducted by qualified service technicians only. Photocopy the Frequent Inspection Checklist page from the Operator's Manual to keep record of this inspection. Keep inspections records up to date. Record and report all discrepancies to your supervisor.

Perform all checks listed on Pre-Start Inspection, then proceed with the following checks.

Hydraulic Fluid

Inspect the condition of hydraulic fluid in the reservoir. Oil should be a clear and amber in color.

Batteries

Proper battery condition is essential to good machine performance and operational safety. Improper or damaged cables and connections can result in component damage and hazardous conditions.

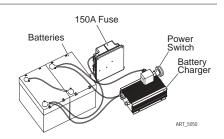
ELECTROCUTION / BURN HAZARD. CONTACT WITH ELECTRICALLY CHARGED CIRCUITS COULD RESULT IN DEATH OR SERIOUS INJURY.



REMOVE ALL RINGS, WATCHES AND OTHER JEWELRY.

BODILY INJURY HAZARD. BATTERIES CONTAIN ACID. AVOID SPILLING OR CONTACTING BATTERY ACID. NEUTRALIZE BATTERY ACID SPILLS WITH BAKING SODA AND WATER.

- 1. Put on protective clothing and eye wear.
- 2. Slide out the component tray from the chassis.
- 3. Be sure that the battery cable connections are free of corrosion.



Note: Adding terminal protectors and a corrosion preventative sealant will help eliminate corrosion on the battery terminals and cables.

- 4. Be sure that the battery retainers and cable connections are tight.
- 5. Fully charge the batteries. Allow the batteries to rest 24 hours before performing this procedure to allow the battery cells to equalize.
- 6. Check each battery pack and verify that the batteries are wired correctly.
- 7. Inspect the battery charger plug and pigtail for damage or excessive insulation wear. Replace as required.
- Connect the battery charger to a properly grounded 110-230V (50-60 Hz) single phase AC



power supply.

- Result: The charger should operate and begin charging the batteries.
- Result: If, simultaneously, the charger alarm sounds and the LEDs blink, correct the charger connections at the fuse and battery. The charger will then operate correctly and begin charging the batteries.

Note: For best results, use an extension cord of adequate size with a length no longer than 50 feet (15 meters).

Note: If you have any further questions regarding the battery charger operation, please contact the MEC Customer Service.

Electrical Wiring

Maintaining electrical wiring in good condition is essential to safe operation and good machine performance. Failure to find and replace burnt, chafed, corroded or pinched wires could result in unsafe operating conditions and may cause component damage.



ELECTROCUTION / BURN HAZARD. CONTACT WITH ELECTRICALLY CHARGED CIRCUITS COULD RESULT IN DEATH OR SERIOUS INJURY.

REMOVE ALL RINGS, WATCHES AND OTHER JEWELRY.

- 1. Inspect the following areas for burnt, chafed, corroded and loose wires:
 - Ground Control Panel
 - Hydraulic Power Unit Module Tray
 - Platform Controls
- 2. Turn the key switch to ground control and pull the red Emergency Stop button out to the On position (pulled out) at both the ground and platform controls
- 3. Raise the platform approximately 8 feet (2.5 meters) from the ground.
- 4. Lift the safety arm, move it to the center of the scissor arm and rotate up to a vertical position.
- 5. Lower the platform onto the safety arm.



CRUSHING HAZARD. KEEP HANDS CLEAR OF THE SAFETY ARM WHEN LOWERING THE PLATFORM.

- 6. Inspect the center chassis area and scissor arms for burnt, chafed and pinched cables.
- 7. Inspect the following areas for burnt, chafed, corroded, pinched and loose wires:
 - Scissor Arms
 - ECU to Platform Controls
 - Power to Platform Wiring
- 8. Inspect for a liberal coating of dielectric grease in the following locations:
 - Between the ECU and platform controls
 - All wire harness connectors Level sensor
- 9. Raise the platform and return the safety arm to the stowed position.
- 10. Lower the platform to the stowed position and turn the machine off.



Tires and Wheels

Maintaining the tires and wheels in good condition is essential to safe operation and good performance. Tire and/or wheel failure could result in a machine tip-over. Component damage may also result if problems are not discovered and repaired in a timely fashion.

- Check the tire surface and sidewalls for cuts, cracks, punctures and unusual wear.
- Check each wheel for damage, bends and cracks.
- Remove the wheel covers and check each center lock nut for proper torque and presence of cotter pin.

| Front | | | | |
|-------------------------------|---------------------|--|--|--|
| Castle Nut Torque, Dry | 166.7ft-lbs (226Nm) | | | |
| Castle Nut Torque, Lubricated | 125.4ft-lbs (170Nm) | | | |

| | Back |
|---------|-------------------|
| Locknut | 100ft-lbs (135Nm) |

Emergency Stop

A properly functioning Emergency Stop system is essential for safe machine operation. An improperly operating red Emergency Stop button will fail to shut off power and stop all machine functions, resulting in a hazardous situation.

As a safety feature, selecting and operating from the ground controls will override all platform controls except the platform red Emergency Stop button.

- 1. Turn the key switch to ground control and pull the red Emergency Stop button out to the On position (pulled out) at both the ground and platform controls.
- 2. Push in the red Emergency Stop button at the ground controls to the Off position (pushed in).
 - **Result:** No machine functions should operate.
- 3. Turn the key switch to platform control and pull the red Emergency Stop button out to the On position (pulled out) at both the ground and platform controls.
- 4. Push in the red Emergency Stop button at the platform controls to the Off position (pushed in).
 - Result: No machine functions should operate.

Note: The red Emergency Stop button at the ground controls will stop all machine operation, even if the key switch is switched to platform control.

Key Switch

Proper key switch action and response is essential to safe machine operation. The machine can be operated from the ground or platform controls and the activation of one or the other is accomplished with the key switch. Failure of the key switch to activate the appropriate control panel could cause a hazardous operating situation.

Perform this procedure from the ground using the platform controls. Do not stand in the platform.

- 1. Pull the red Emergency Stop button out to the On position (pulled out) at both the ground and platform controls.
- 2. Turn the key switch to platform control.
- 3. Check the platform up/down function from the ground controls.
 - **Result:** The machine functions should not operate.



- 4. Turn the key switch to ground control.
- 5. Check the machine functions from the platform controls.
 - Result: The machine functions should not operate.
- 6. Turn the key switch to the Off position (pushed in).
 - Result: No function should operate.

Horn

The horn is activated at the platform controls and sounds at the ground as a warning to ground personnel. An improperly functioning horn will prevent the operator from alerting ground personnel of hazards or unsafe conditions.

- 1. Turn the key switch to platform control and pull the red Emergency Stop button out to the On position (pulled out) at both the ground and platform controls.
- 2. Push down the horn button at the platform controls.
 - Result: The horn should sound.

Drive Brake

Proper brake action is essential to safe machine operation. The drive brake function should operate smoothly, free of hesitation, jerking and unusual noise. Hydraulically released individual wheel brakes can appear to operate normally when not fully operational.

Perform this procedure with the machine on a firm level surface that is free of obstructions, with the platform extension deck fully retracted and the platform in the stowed position.

- 1. Mark a test line on the ground for reference.
- 2. Turn the key switch to platform control and pull the red Emergency Stop button out to the On position (pulled out) at both the ground and platform controls.
- 3. Press the drive function select button.
- 4. Choose a point on the machine; i.e., contact patch of a tire, as a visual reference for use when crossing the test line.
- 5. Bring the machine to top drive speed before reaching the test line. Release the function enable switch or the joystick when your reference point on the machine crosses the test line.
- 6. Measure the distance between the test line and your machine reference point.
 - The maximum braking distance at high speed on a paved surface is 24 inches±11.8 inches (61 centimeters±30 centimeters)
 - **Result:** The machine stops within the specified braking distance. No action required.
 - **Result:** The machine does not stop within the specified braking distance.

Note: The brakes must be able to hold the machine on any slope it is able to climb.

7. Replace the brakes and repeat this procedure beginning with step 1.

Drive Speed, Lowered Platform

Proper drive functions are essential to safe machine operation. The drive function should respond quickly and smoothly to operator control. Drive performance should also be free of hesitation, jerking and unusual noise over the entire proportionally controlled speed range.

Perform this procedure with the machine on a firm, level surface that is free of obstructions.

- 1. Create start and finish lines by marking two lines on the ground 40 feet (12.2 meters) apart.
- 2. Turn the key switch to platform control and pull the red Emergency Stop button out to the On position (pulled out) at both the ground and platform controls.
- 3. Lower the platform to the stowed position.
- 4. Press the drive function select button.
- 5. Choose a point on the machine; i.e., contact patch of a tire, as a visual reference for use when crossing the start and finish lines.
- 6. Bring the machine to top drive speed before reaching the start line. Begin timing when your reference point on the machine crosses the start line.
- 7. Continue at full speed and note the time when your reference point on the machine passes over the finish line. The time should be 9-11 sec.

Drive Speed, Raised Platform

Proper drive functions are essential to safe machine operation. The drive function should respond quickly and smoothly to operator control. Drive performance should also be free of hesitation, jerking and unusual noise over the entire proportionally controlled speed range.

Perform this procedure with the machine on a firm, level surface that is free of obstructions.

- 1. Create start and finish lines by marking two lines on the ground 40 feet (12.2 meters) apart.
- 2. Turn the key switch to platform control and pull the red Emergency Stop button out to the On position (pulled out) at both the ground and platform controls.
- 3. Press the lift function select button.
- 4. Press and hold the function enable switch on the joystick.
- 5. Raise the platform approximately 4 feet (1.2 meters) from the ground.
- 6. Press the drive function select button.
- 7. Choose a point on the machine; i.e., contact patch of a tire, as a visual reference for use when crossing the start and finish lines.
- 8. Bring the machine to top drive speed before reaching the start line. Begin timing when your reference point on the machine crosses the start line.
- 9. Continue at full speed and note the time when your reference point on the machine passes over the finish line. The time should be 35-40 sec.

Drive Speed, Slow

Proper drive functions are essential to safe machine operation. The drive function should respond quickly and smoothly to operator control. Drive performance should also be free of hesitation, jerking and unusual noise over the entire proportionally controlled speed range.

Perform this procedure with the machine on a firm, level surface that is free of obstructions.

- 1. Create start and finish lines by marking two lines on the ground 40 feet (12.2 meters) apart.
- 2. Turn the key switch to platform control and pull the red Emergency Stop button out to the On position (pulled out) at both the ground and platform controls.
- 3. Lower the platform to the stowed position.
- 4. Press the slow speed select button.
- 5. Choose a point on the machine; i.e., contact patch of a tire, as a visual reference for use when



- crossing the start and finish lines.
- 6. Bring the machine to top drive speed before reaching the start line. Begin timing when your reference point on the machine crosses the start line.
- 7. Continue at full speed and note the time when your reference point on the machine passes over the finish line. The time should be 18-22 sec.

Hydraulic Oil Analysis

Replacement or testing of the hydraulic oil is essential for good machine performance and service life. Dirty oil may cause the machine to perform poorly and continued use may cause component damage. Extremely dirty conditions may require oil changes to be performed more often.

Before replacing the hydraulic oil, the oil may be tested by an oil distributor for specific levels of contamination to verify that changing the oil is necessary.

Hydraulic oil should be tested yearly and replaced if it fails. If the hydraulic oil is not replaced at the Annual Inspection, test the oil quarterly. Replace the oil when it fails the test.

Tank Venting System

A free-breathing hydraulic tank cap is essential for good machine performance and service life. A dirty or clogged cap may cause the machine to perform poorly. Extremely dirty conditions may require that the cap be inspected more often.

- 1. Remove the breather cap from the hydraulic tank.
- Check for proper venting.
 - Result: Air passes through the breather cap.
 - **Result:** If air does not pass through the cap, clean or replace the cap. Proceed to step 3.

Note: When checking for positive tank cap venting, air should pass freely through the cap.

- 3. Using a mild solvent, carefully wash the cap venting system. Dry using low pressure compressed air. Repeat step 2.
- 4. Install the breather cap onto the hydraulic tank.

Annual Inspection Checklist



THIS CHECKLIST MUST BE USED AT 12-MONTH INTERVALS OR EVERY 600 HOURS OF MACHINE USE, WHICHEVER OCCURS FIRST. FAILURE TO DO SO COULD RESULT IN DEATH OR SERIOUS INJURY.

Annual Maintenance Inspections should be conducted by qualified service technicians only. Photocopy the Annual Inspection Checklist page from the Operator's Manual to keep record of this inspection. Keep inspections records up to date. Record and report all discrepancies to your supervisor.

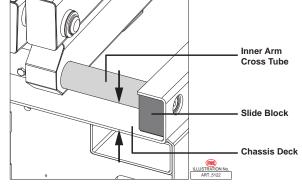
Perform all checks listed on Pre-Start Inspection and the Frequent Inspection, then check all items listed on the Annual Inspection Report. See specific instructions below.

Scissor Slide Blocks

Maintaining the condition of the scissor arm slide blocks is essential to safe machine operation. Continued use of worn out wear pads may result in component damage and unsafe operating conditions.

Perform this procedure with the platform in the stowed position.

- 1. Measure the distance between the number one inner arm cross tube and the chassis deck at the ground controls side of the non-steer end of the machine.
 - **Result:** The measurement is 1.18 inches (30 millimeters) or more. Proceed to step 2.
 - **Result:** The measurement is less than 1.18 inches (30 millimeters). Replace both wear pads.
- 2. Measure the distance between the number one inner arm cross tube and the chassis deck at the battery pack side of the non-steer end of the machine.



- Result: The measurement is 1.18 inches (30 millimeters) or more. Proceed to step 3.
- Result: The measurement is less than 1.18 inches (30 millimeters). Replace both wear pads.
- 3. Apply a thin layer of dry film lubricant to the area of the chassis where the scissor arm wear pads make contact.

Hydraulic Tank Breather Cap

The hydraulic tank is a vented-type tank. The breather cap has an internal air filter that can become clogged or, over time, can deteriorate.

If the breather cap is faulty or improperly installed, impurities can enter the hydraulic system which may cause component damage. Extremely dirty conditions may require that the cap be inspected more often.

- 1. Remove and discard the hydraulic tank breather cap.
- 2. Install a new cap onto the tank.



Hydraulic Oil Inspection

Replacement or testing of the hydraulic oil is essential for good machine performance and service life. Dirty oil may cause the machine to perform poorly and continued use may cause component damage. Extremely dirty conditions may require oil changes to be performed more often.

Before replacing the hydraulic oil, the oil may be tested by an oil distributor for specific levels of contamination to verify that changing the oil is necessary.

Hydraulic oil should be tested yearly and replaced if it fails. If the hydraulic oil is not replaced at the Annual Inspection, test the oil quarterly. Replace the oil when it fails the test.

Note: Perform this procedure with the platform in the stowed position.

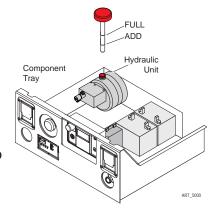
- 1. Slide out the Component Tray.
- 2. Disconnect the battery pack from the machine.



ELECTROCUTION / BURN HAZARD. CONTACT WITH ELECTRICALLY CHARGED CIRCUITS COULD RESULT IN DEATH OR SERIOUS INJURY.

REMOVE ALL RINGS, WATCHES AND OTHER JEWELRY.

- 3. Tag and disconnect the hydraulic pump outlet line and remove the line from the pump. Cap the fitting on the pump.
- 4. Loosen the bolts and remove the hydraulic power pack form the tray.
- 5. Open the oil plug of tank. Drain all of the oil into a suitable container.
- 6. Loosen and remove the bolts and separate the tank from the pump body.





BODILY INJURY HAZARD. SPRAYING HYDRAULIC OIL CAN PENETRATE AND BURN SKIN. LOOSEN HYDRAULIC CONNECTIONS VERY SLOWLY TO ALLOW THE OIL PRESSURE TO DISSIPATE GRADUALLY. DO NOT ALLOW OIL TO SQUIRT OR SPRAY.

- 7. Clean up any oil that may have spilled. Properly discard the used oil.
- 8. Clean the inside of the hydraulic tank using a mild solvent. Allow the tank to dry completely.
- 9. Install the hydraulic tank and install and tighten the hydraulic tank retaining fasteners. Torque to specification.
 - Hydraulic Tank Retaining Fasteners, Dry: 35in-lbs (4Nm)
 - Hydraulic Tank Drain Plug, Lubricated: 26in-lbs (3Nm)
- 10. Install the hydraulic power pack into the component tray. Install the fitting and hydraulic hoses



onto the hydraulic power pack and torque.

- 11. Fill the tank with hydraulic oil to the middle of the dipstick. Do not overfill.
- 12. Activate the pump to fill the hydraulic system with oil and bleed the system of air.



COMPONENT DAMAGE HAZARD. THE PUMP CAN BE DAMAGED IF OPERATED WITHOUT OIL. BE CAREFUL NOT TO EMPTY THE HYDRAULIC TANK WHILE IN THE PROCESS OF FILLING THE HYDRAULIC SYSTEM. DO NOT ALLOW THE PUMP TO CAVITATE.



Maintenance Inspection Report

SE & MICRO Series Scissors

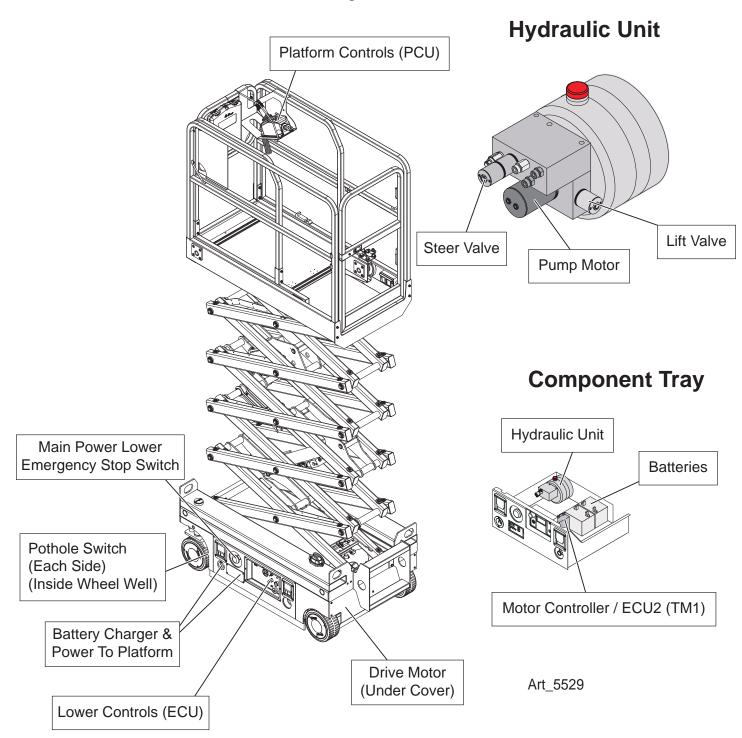
| Fleet Equipment Number | Date | | | | |
|---|--|--|--|--|--|
| Inspector Name | Inspector Co. | | | | |
| Model Number | Address | | | | |
| Serial Number | | | | | |
| Hour Meter | Signature | | | | |
| Machine Owner & address | | | | | |
| | | | | | |
| Maintain all service records in ac | cordance with ANSI A92.24-2019 | | | | |
| * If an inspection receives an "N", remove from service. Once repair * Refer to the proper service manual for specific information, setting | 7.1 | | | | |
| Key Y = Yes, Acceptable N = No, Remove from | om Service R = Repaired 0 = Not Applicable | | | | |
| QUARTERLY - Inspect only those marke | d "O" ANNUAL - Inspect all items | | | | |

| | Q/A | Y/N/O | R |
|--------------------------------------|-----|-------|---|
| DECALS: | | | |
| Legible - undamaged/readable | Q | | |
| Capacity decal correct for model | Q | | |
| RAILS: | | | |
| Not damaged, all in place | Q | | |
| All rail fasteners secure | Q | | |
| Entry gate secure, closes properly | Q | | |
| Manual box in good condition | Q | | |
| Operators Manual in manual box | Q | | |
| PLATFORM EXTENSION: | | | |
| Rolls in and out freely | Q | | |
| Lock holds deck in place | Q | | |
| Release pedal moves freely (lube) | Q | | |
| ELEVATING ASSEMBLY: | | | |
| Scissor Slide Blocks, lubed | Q | | |
| Maintenance Stand, good Cond | Q | | |
| Beam structures: Straight, no cracks | Α | | |
| Welds: secure, no cracks | Α | | |
| Retaining Rings | Α | | |
| Cylinder Pins, secure | Α | | |
| ELECTRICAL: | | | |
| GFCI operates correctly | Q | | |
| Wire harnesses good cond, secure | Α | | |
| Comm cable no damage, secure | Α | | |
| BASE: | | | |
| Fasteners tight | Q | | |
| Cover panels secure | Q | | |
| Welds | Α | | |

| | Q/A | Y/N/O | R |
|--|-----|-------|---|
| WHEELS: | | | |
| Tire damage | Q | | |
| Lug nuts (Wheel mounting) torqued correctly | Q | | |
| King Pins lubed | А | | |
| COMPONENT AREA: | | | |
| Hydraulic - no leaks | Q | | |
| Hydraulic tank, correct level | Q | | |
| Hoses not damaged - Fittings tight | Q | | |
| Valve manifold secure, no leaks | Q | | |
| Power unit secure, no leaks | Q | | |
| Batteries properly filled and cables clean | Q | | |
| Emergency stop, cuts power/operation | Q | | |
| Battery switch cuts battery feed | | | |
| Plastic cover secure (door end 2632-4555 only) | А | | |
| Hydraulic tank, oil clean | А | | |
| Replace Hydraulic Filter (if equipped) | А | | |
| Clean or replace tank breather filter | А | | |
| OPERATIONAL INSPECTION: | | | |
| All functions, operate smooth and quiet | Q | | |
| All functions, speeds correct. | Q | | |
| Upper control box, operates correctly | Q | | |
| Emergency Down, operates correctly | Q | | |
| Limit switches slows drive when elevated | | | |
| Pothole switch test | | | |
| Steering pressure relief, set correctly | Q | | |
| Lift pressure relief, set correctly | Q | | |
| **Check Platform Overload Sensing operation | Q | | |

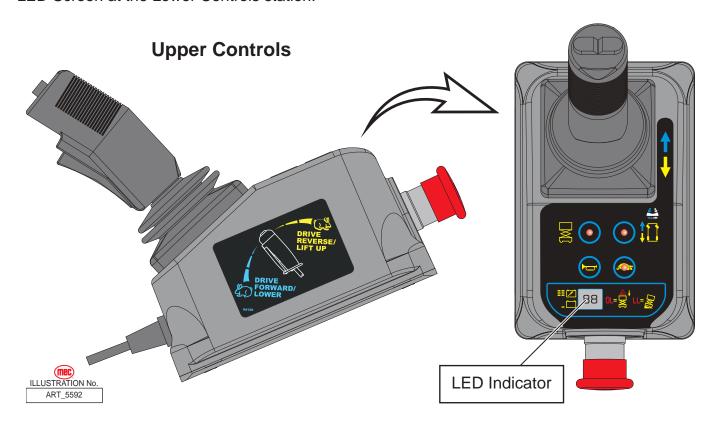
^{**}For machine equipped with Platform Overload Protection system only

Control Component Locations

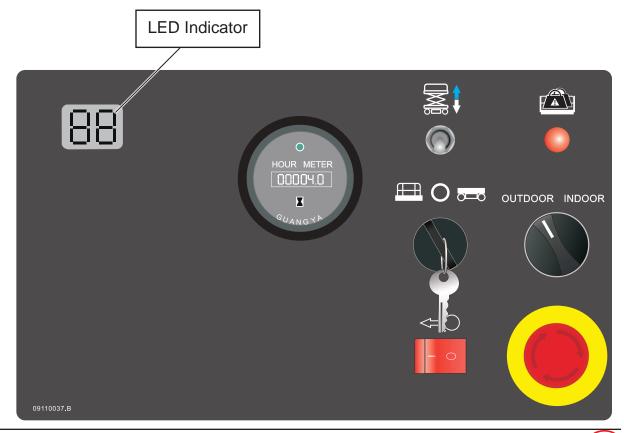


Fault Codes

Fault Codes, when present, appear on the LED Indicator at the Upper Controls station and on the LED Screen at the Lower Controls station.



Micro19 Lower Controls



Error Indicator Readout

If the LED diagnostic readout displays an error code, such as LL, push in and turn the red Emergency Stop button to reset the system.



| Fault | Description | Models | Solutions | |
|-------|--|--------------------------------|--|--|
| 01/10 | System Initialization Fault | All Models | Check ECU | |
| 02/20 | System Communication Fault | All Models | Check platform control box, check wiring to platform connector, check ECU, check battery voltage, check relay in lower cabinet | |
| | | Micro26® | Check height sensor, check pressure sensor | |
| 03 | Invalid Option Setting | All Models | Reset option code | |
| 12 | Chassis Up Or Down Switch ON At Power-Up | All Models | Check wiring to toggle switch, check toggle switch | |
| 18 | Pothole Guard Fault | All Models | Check pothole limit switch, check pothole bar functionality, recalibrate height | |
| 30/35 | No Functions | All Models | Remove telematics from hour meter | |
| 31 | Pressure Sensor Fault | All Models | Check option code (older machines), check wiring to pressure sensor, check pressure sensor, recalibrate overload | |
| 32 | Angle Sensor Fault | All Models | Check wiring to angle sensor (operating range 1.9-3.8V), check option code | |
| 36 | Low Voltage Fault | All Models (Newer Machines) | Check battery voltage, check battery connections, load test batteries, replace batteries ONLY if necessary, charge machine | |
| 42 | Left Turn Switch ON At Power-Up | All Models | Check joystick left steer button, check platform controller, replace joystick | |
| 43 | Right Turn Switch ON At Power-Up | All Models | Check joystick right steer button, check platform controller, replace joystick | |
| 46 | Joystick Enable Switch ON At Power-Up | All Models | Enable pushed before self-check finished, check dead-man switch, replace joystick | |
| 47 | Joystick Not In Neutral At Power-Up | All Models | Check joystick for centering, replace joystick | |
| 52 | Drive Forward Coil Fault | All Models | Check option code | |
| 53 | Drive Reverse Coil Fault | All Models | Check option code | |
| 54 | Up Coil Fault | All Models | Check lift coil for voltage, check resistance on coil, replace lift coil | |
| 55 | Down Coil Fault | All Models | Check down coil for voltage, check resistance on coil, replace down coil | |
| 56 | Right Steer Coil Fault | All Models | Check steer coil for voltage, check resistance on coil, replace steer coil | |
| 57 | Left Steer Coil Fault | All Models | Check steer coil for voltage, check resistance on coil, replace steer coil | |
| 58 | Brake Coil Fault Brakes Are 46 Ohms | All Models | Check brake module and wiring, check brakes and wiring, check battery voltage | |
| 60 | Motor Controller Fault | All Models | Cycle power to machine, replace motor controller | |



| Fault | Description | Models | Solutions |
|-------|--|-------------|--|
| 61 | Motor Controller Sensor Fault | All Models | Check drive motor and wiring, check motor controller wiring, change option code, replace motor controller |
| 62 | Motor Controller Hardware Fail Safe Fault | All Models | Cycle power, check brake switch functionality and wiring, tighten drive motor connections, replace motor controller |
| 63 | Motor Controller Output Fault | All Models | Cycle power, tighten drive motor connections, replace motor controller |
| 64 | Motor Controller Fault | All Models | Replace motor controller |
| 65 | Motor Controller Throttle Fault | All Models | Check wiring to controller, replace motor controller |
| 66 | Motor Controller Reverse Fault | All Models | Replace motor controller |
| 67 | Motor Controller HPD Fault | All Models | Check contactor, change option code, replace ECU, replace motor controller |
| 68 | Low Voltage Fault | All Models | Check battery voltage, check battery connection, load test batteries, replace batteries ONLY if necessary, charge machine |
| 69 | High Neutral Current Fault | All Models | Motor controller thinks the brakes are on and the motors are still running (this message comes just before other faults, should be ignored in those cases), replace motor controller |
| 70 | Steer Input Out Of Range | All Models | Check for loose connection at motor controller, replace motor controller |
| 71 | Motor Controller Main Contactor Fault | All Models | Check wiring to contactor (check white & black for connection & voltage), check drive motor and wiring, check motor controller wiring |
| 72 | Motor Controller Over Voltage Fault | All Models | Check battery voltage (battery charger must NOT be connected), cycle power to machine, replace motor controller |
| 73 | Motor Controller | All Models | Drive or lift motor may be overheating (let the lift cool down), cycle power to machine, replace motor controller |
| 74 | Motor Controller Motor Fault | All Models | Check connections to motors, check wiring to motors, cycle power to the lift, replace motor controller |
| 75 | Motor Controller Pump Motor Fault | All Models | Check connections on pump motor, tap on pump motor (brushes possibly stuck), cycle power to machine, replace pump, replace motor controller |
| 76 | Motor Controller Left Drive Motor Fault | All Models | Check drive motor terminals, cycle power to the lift, replace motor controller |
| 77 | Motor Controller Right Drive Motor Fault | All Models | Check drive motor terminals, cycle power to the lift, replace motor controller |
| 78 | Pump Motor Short Fault • Should Be 0.8 To 1.4 Ohms | All Models | Check connections on pump motor, tap on pump motor (brushes possibly stuck), cycle power to machine, replace motor controller |
| | Left Drive Motor Short | 1930SE ONLY | Check left drive motor terminal, check motor controller wiring |
| 79 | Should Be 0.5 To 2.0 Ohms For Micro19 | Micro19® | Swap drive motor wires (if code changes trace wiring, if it does not replace motor controller), tighten drive motor terminals |

| Fault | Description | Models | Solutions |
|-------|--|-------------------------|--|
| 80 | Over 80% Load Warning | All Models | Platform capacity close to limit of weight (consider not adding more load) |
| 81 | Right Drive Motor Short | 1930SE/Micro19® | Check right drive motor and wiring, check motor controller and wiring |
| 82 | Right Brake Coil Brakes Should Be 46 Ohms On Micro19 And 26 Ohms For All Others | All Models | Check battery voltage, check right brake terminals, check brake module and wiring, check contactor, check option code, check fuse near motor controller, replace ECU |
| 83 | Left Brake Coil | All Models | Check battery voltage, check left brake terminals, check brake module wiring, check contactor |
| 63 | Leit Brake Coll | 1930SE/Micro19® | Check drive motor terminals, check fuse connected to motor controller, replace motor controller |
| 85 | Brake Release Switch Closed | 1930SE/Micro19® ONLY | Turn brake release switch off |
| 86 | Raised Brake Release Fault | 1930SE ONLY | Brake release switch engaged when elevated |
| 87 | Brake Release Switch Fault | 1930SE ONLY | Brake release switch is open |
| 89 | Drive Motor Field Open Fault | All Models | Check wiring on motors, check wiring to motor controller |
| 90 | Over 90% Load Warning | All Models | Platform getting close to weight capacity |
| 91 | Left Drive Motor Short | All Models | Check wiring to motor, check wiring to motor controller |
| 92 | Right Drive Motor Short | All Models | Check wiring to motor, check wiring to motor controller |
| 99 | Over 99% Load Warning | All Models | Platform has reached load capacity. |
| OL | Platform Overloaded | All Models | Remove excess load |
| LL | Tilted | All Models | Check wiring to tilt sensor, recalibrate tilt |
| H9 | Height Not Calibrated | All Models | Calibrate height |
| CH | Not A Fault Code | All Models | Machine is in chassis controls |

| Option Code For Machines | | | |
|--------------------------------|--------------------------|-----------------------------|--|
| Model | Older | With Overload (Yellow Gate) | |
| MICRO19® | To Serial #16900460 58 | E3 | |
| WICKO 19® | From Serial #16900461 62 | E3 | |
| MICRO19XD® | N/A | E3 | |
| MICRO26® | N/A | 27 | |
| 1930SE | 58 | | |
| 2632SE, 3346SE, 4046SE, 4555SE | 30,26 | A7 | |
| MME20, MME25 | N/A | A7 | |

Section 12 - Calibration August 2024

Calibration Instructions

These calibration instructions only apply to Micro19s after serial number 16911000.

The Platform Overload Sensing System may require calibration in the event of a malfunction or after replacing an Overload System component. Proper and correct calibration of the Overload system is critical for normal and trouble-free machine operation. Please read and understand the instructions before beginning the calibration process.

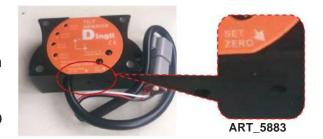
Calibrate Tilt Sensor

Tilt Sensor calibration is necessary only when the level indication is not correct. It is not necessary to calibrate the Tilt Sensor during Height and Overload Calibrations unless the level indication is not correct. The Tilt Sensor is located in the rear of the chassis. It will be necessary to remove the Drive Motor Cover Plate to gain access to the Tilt Sensor. The diagram below shows the Tilt Sensor removed from the machine for clarity.

1. Park the machine on flat level surface.

Note: Calibrating the level sensor requires that the machine be perfectly level on both the X and Y axis. An inclinometer should be used when ensuring machine level. Machine power must be on.

- Using the diagram below, locate the "SET ZERO" button often located on the side of the sensor but may be on the top of the sensor. Press and hold the "SET ZERO" button until the LEDs alternate between red and green flashes. Release the button.
- 3. Immediately press the "SET ZERO" button three times. The LEDs will turn off then only the green LED will illuminate. Calibration is complete.



Calibrate Height

Note: The platform must lift to full height to properly calibrate height. If low overhead obstructions prevent full elevation. Move the machine to a location that will not limit elevation. If machine cannot be moved, perform the full Height calibration at the maximum possible height. The Upper Point Calibration can be redone once the machine can be moved. It is a good idea to alert others to the need to re-calibrate if it cannot be calibrated correctly.

- 1. Make sure the platform is lowered to its fully stowed position.
- 2. Remove the upper control box from the guard rail and unplug it from the guard rail connection. Plug the upper control box into the connector located inside the lower control drawer.
- 3. Turn the Key Switch to the lower control position and turn all switches on.
- 4. Push the platform Emergency Stop (E-stop) Switch in.
- 5. Press and hold the Drive and Turtle buttons while pulling out the platform E-stop. Continue holding the buttons until "H9" (or "Hg") appears in the upper control box display. Release the buttons. The system is now in Height Calibration mode.
- 6. Set the lower point calibration by simultaneously pressing and holding the Joystick Enable

Section 12 - Calibration August 2024

Trigger and the Right Steer button (the horn will sound for a couple seconds). When the horn turns off, the Lower Point Calibration will be set. Release the switches.

- 7. Set the Upper Point calibration by first elevating the platform. Use the lift switch in the lower panel to lift the platform to its highest position, the platform must be completely elevated (see Note above).
- 8. Simultaneously press and hold the Joystick Enable Trigger and the Left Steer button (the horn will sound for a couple seconds). When the horn turns off, the Upper Point Calibration will be set. Release the switches.
- 9. Set the Outdoor point calibration by first lowering the platform 5 feet only (from full elevation) using the lift switch on the lower panel. Simultaneously press and hold the Joystick Enable Trigger and the Lift button on the touch pad (the horn will sound for a couple seconds). When the horn turns off, the Outdoor Height Limit Calibration will be set. Release the switches.
- 10. Set the safe down point calibration by first lowering the platform about halfway (from full elevation) using the lift switch on the lower panel. Simultaneously press and hold the Joystick Enable Trigger and the Horn button on the touch pad (the horn will sound for a couple seconds). When the horn turns off, the Outdoor Height Limit calibration will be set. Release the switches.
- 11. Press the E-stop Switch in to turn the system off. This will finalize the calibration.
- 12. Pull the E-stop switch out to turn the machine back on, lower the platform and move the upper control cord back to the guard rail connection. Reconnect the lower plug and test all functions.

Calibrate Overload System

Note: The platform <u>will lift automatically</u> once the calibration has been initiated. Be sure that there are <u>no overhead obstructions</u> when choosing a location on which to calibrate the overload system.

Note: If a safety concern arises anytime during the automated lift/lower sequence, press the Emergency Stop switch immediately. The procedure can be restarted once it is safe to do so.

Empty Platform Sequence

- 1. Park the machine on flat level surface. Machine power must be on with the key switch in the Upper control position. Ensure that the platform is completely empty and there are no 'extra' items attached to the platform or guard rails that may add weight beyond that of an empty platform.
- 2. Using the lower Lift Switch (located on the lower control panel) perform the following sequence of up and down movement of the toggle switch.
 - 1) Down 5 times
 - 2) Up 1 time
 - 3) Down 5 times
 - 4) Up 1 time
 - 5) Down 1 time
 - 6) Up 1 time
 - 7) Down 3 times
- 3. The Platform will run through a series of lift and lower cycles. The process will be complete when the platform returns to the fully lowered and the horn stops sounding. Cycle Emergency Stop power and continue to the Loaded calibration steps.

Section 12 - Calibration August 2024

Loaded Platform Sequence

1. Park the machine on flat level surface. Machine power must be on with the key in the Platform position. Ensure that the platform is completely empty and there are no 'extra' items attached to the platform or guard rails that may add weight to the platform beyond that of an empty platform.

- 2. Locate the decal showing the Maximum Platform Capacity and record that weight number. Place recorded weight in the center of the platform.
- 3. Using the lower Lift Switch (located on the lower control panel) perform the following sequence of up and down movement of the toggle switch.
 - 1) Down 5 times
 - 2) Up 1 time
 - 3) Down 5 times
 - 4) Up 1 time
 - 5) Down 5 time
- 4. The platform will run through a series of lift and lower cycles. The process will be complete when the platform returns to the fully lowered and the horn stops sounding. Once the Empty and the Loaded sequences are complete, the Platform Overload Calibration is complete. Remove weight from platform and test all machine operations in accordance with the Pre-Inspection Check List located in the machine's operator's manual.

Platform Overload Test Procedure

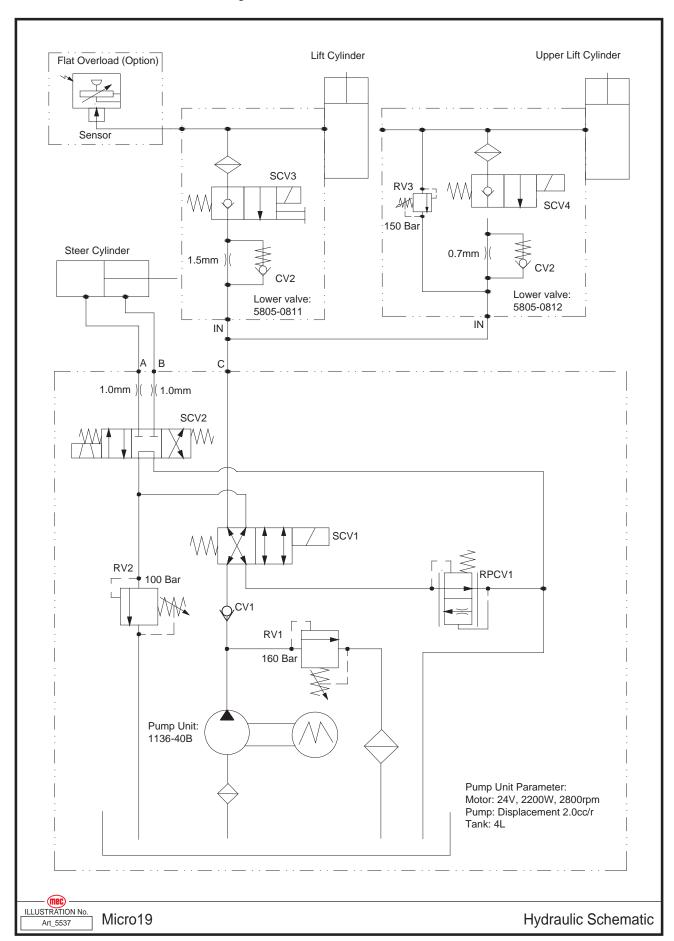
- 1. Park the machine on firm, level surface and remove all contents from platform.
- 2. Consult the Platform Capacity data plate for the Maximum Platform Weight Capacity information.
- 3. Load (approximately) 90% of that weight in the platform.
- 4. Lift the platform using the lower control lift switch.
 - The platform should raise and the display should read "90" indicating 90% load.
- 5. Add 50lbs (22.7kg) to the platform in addition to the weight added in step 3 then lift the platform.
 - The platform should lift 5-7 feet (1.5-2.1 meters) then stop lifting automatically. The alarms should sound and the display should read "OL". Use Emergency Lowering cable to lower the platform.

6. Results:

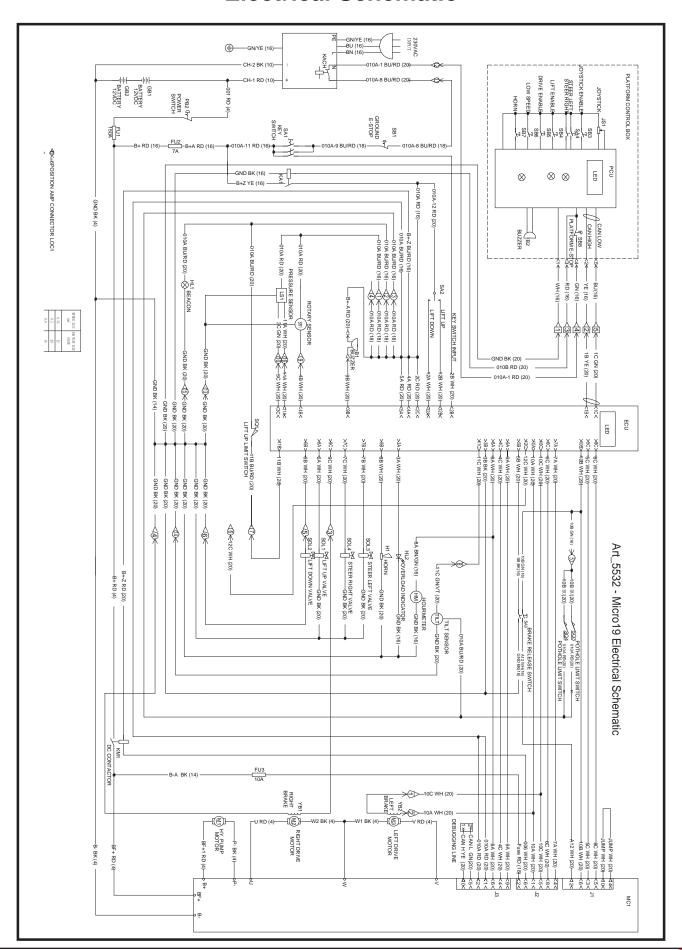
- The platform stops lifting with less than the maximum rated platform capacity in the platform
 OR
- The platform continues to lift with excessive weight in the platform.
 - Test Failed recalibrate the overload system (refer to Overload Calibration in this section).
- The Platform Overload Sensing System operates as described Passed Test Complete.

Section 13 - Schematics August 2024

Hydraulic Schematic



Electrical Schematic



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Chapter 2 - Parts August 2024

Parts Introduction

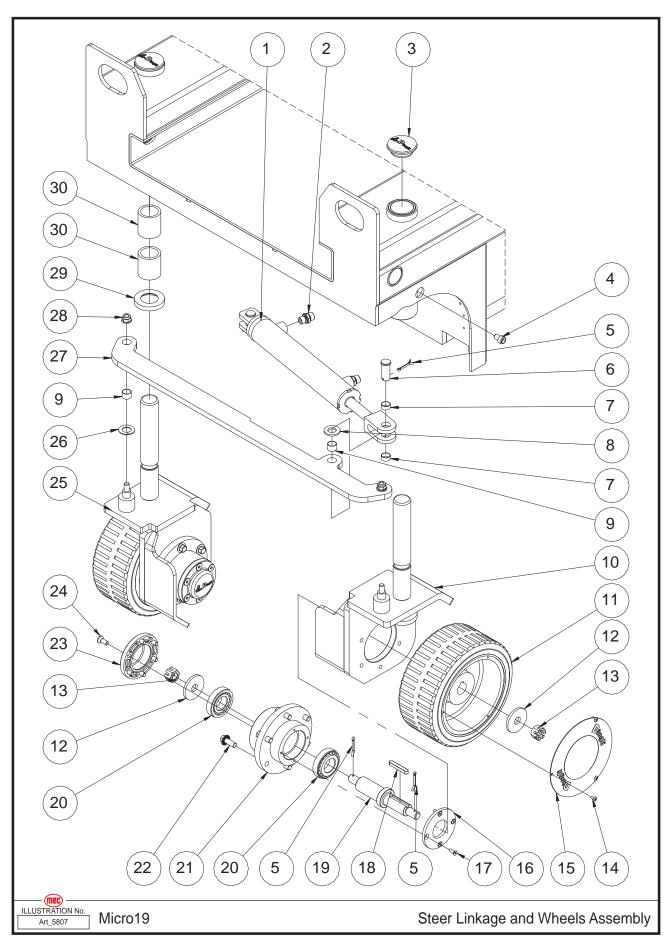
This Parts sections consists of illustrated parts sections and is designed to provide you, the customer, with illustrations and the list of associated parts needed to properly maintain the MEC self-propelled aerial work platform. When used in conjunction with the Service section in this manual and the Operator's Manual (provided separately), this manual will assist you in making necessary adjustments and repairs, and identifying and ordering the correct replacement parts.

All parts represented here are manufactured and supplied in accordance with MEC quality standards.

We recommend that you use genuine MEC parts to ensure proper operation and reliable performance.

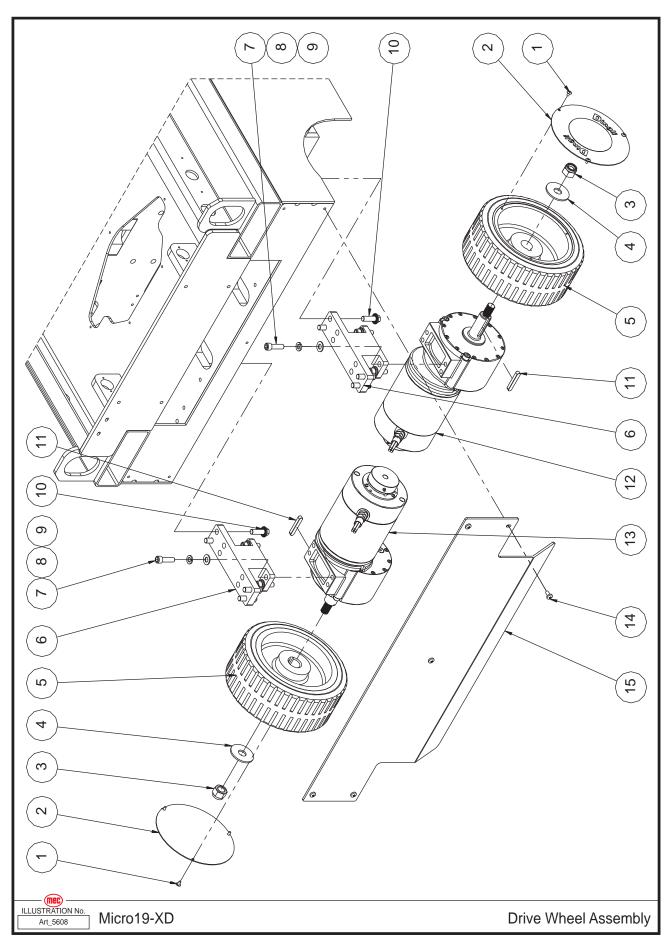
To obtain maximum benefits from your MEC Aerial Work Platforms, always follow the proper operating and maintenance procedures. Only trained authorized personnel should be allowed to operate or service this machine. Service personnel should read and study the Operator's, and the Service and Parts Manuals in order to gain a thorough understanding of the unit prior to making any repairs.

Steer Linkage and Wheels Assembly, To Serial #16921529



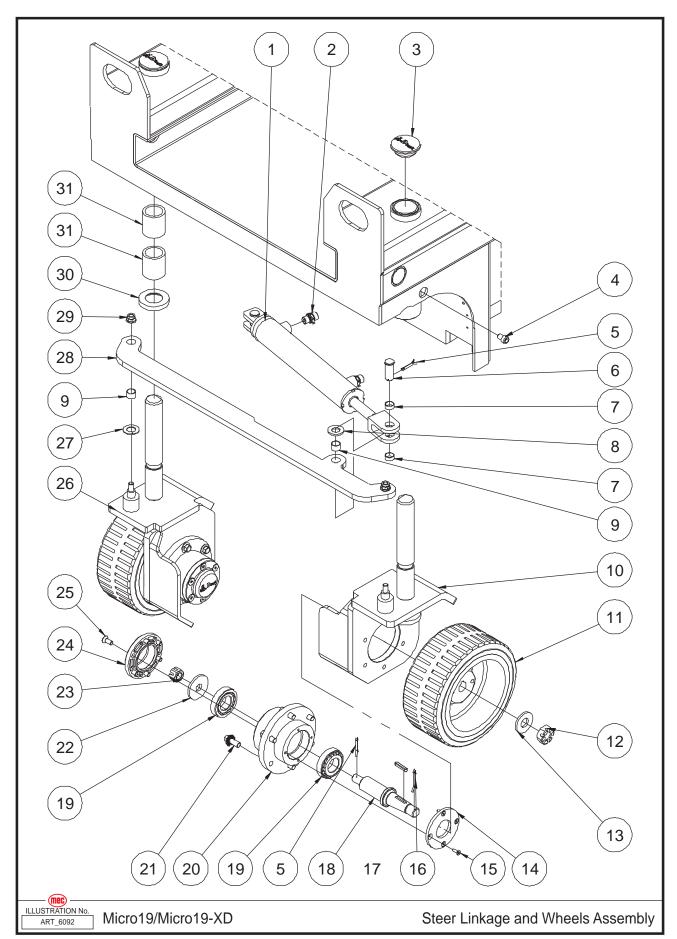
| Item | Part Number | Description | Qty. |
|------|-------------|--|------|
| 1 | 41223 | Steer Cylinder Assembly | 1 |
| | 41594 | Seal Kit | 1 |
| 2 | 41298 | Straight Fitting | 2 |
| 3 | 41596 | Cover | 2 |
| 4 | 41794 | Screw | 2 |
| 5 | 41322 | Cotter Pin | 6 |
| 6 | 41321 | Pin | 2 |
| 7 | 41225 | Bearing | 4 |
| 8 | 43564 | Washer | 2 |
| 9 | 41210 | Bearing | 4 |
| 10 | 44607 | Steer Yoke Weldment | 1 |
| 11 | 42414 | Wheel (To Serial #16921529) | 2 |
| 11 | 45265 | Wheel (From Serial #16921530) | 2 |
| 12 | 41327 | Washer | 4 |
| 13 | 53347 | Castle Nut M16 x 1.50 | 4 |
| 14 | 53348 | Screw THMS M04-0.70 x 10 | 6 |
| 15 | 41323 | Cover | 2 |
| 16 | 41230 | Bearing Cover | 2 |
| 17 | 53269 | Screw CSCS M05-0.80 x 16 | 8 |
| 18 | 41232 | Key | 2 |
| 19 | 42415 | Wheel Shaft | 2 |
| 20 | 41024 | Bearing | 4 |
| 21 | 41234 | Connection Plate | 2 |
| 22 | 50429 | Screw HHCS M10-1.50 x 25 Serrated Flange | 12 |
| 23 | 41328 | Сар | 2 |
| 24 | 53282 | Screw CSCS M08-1.25 x 20 | 12 |
| 25 | 44608 | Steer Yoke Weldment | 1 |
| 26 | 41222 | Bearing | 2 |
| 27 | 42412 | Tie Rod | 1 |
| 28 | 50311 | Nut NNYL M10-1.50 Flange | 2 |
| 29 | 41792 | Washer | 2 |
| 30 | 41595 | Bearing | 4 |

Drive Wheel Assembly, To Serial #16921529



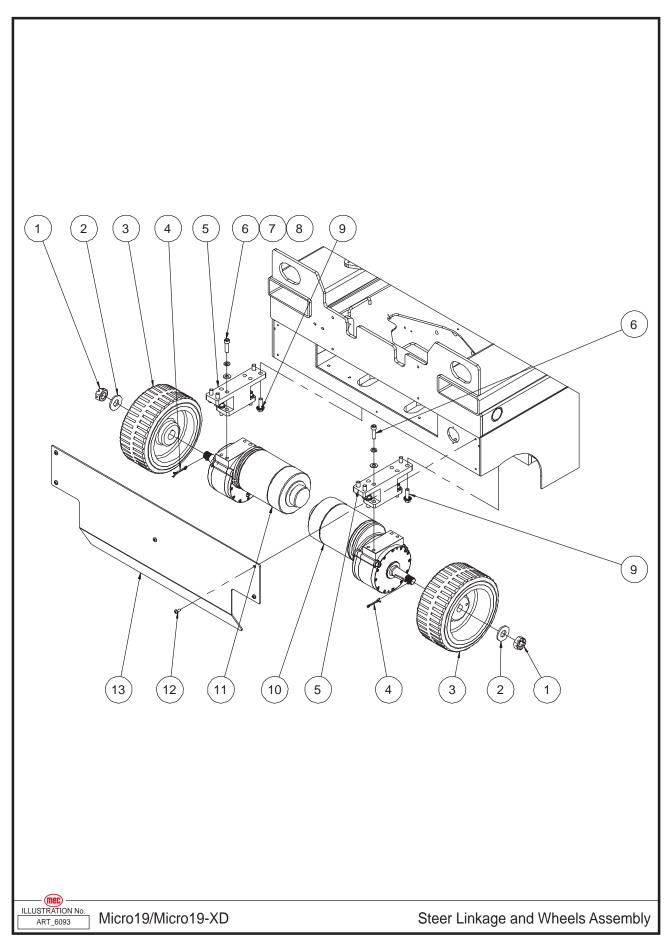
| Item | Part Number | Description | Qty. |
|------|-------------|--|------|
| 1 | 53263 | Screw THMS M04-0.70 × 8 | 6 |
| 2 | 41323 | Cover | 2 |
| 3 | 53313 | Nut NNYL M16 × 1.50 | 2 |
| 4 | 53314 | WSHR M16 Flat Fender Washer | 2 |
| | 42414 | Wheel (To Serial #16921529) | 2 |
| 5 | 45265 | Wheel (From Serial #16921530) | 2 |
| 6 | 41239 | Support | 2 |
| 7 | 53315 | Screw SHCS 3/8-24 x 1 1/4 | 8 |
| 8 | 53316 | WSHR 3/8 Spring Washer | 8 |
| 9 | 53317 | WSHR 3/8 Standard Flat Narrow Washer | 8 |
| 10 | 53268 | Screw HHCS M10-1.50 × 30 Serrated Flange | 8 |
| 11 | 41232 | Key | 2 |
| 12 | 42421 | Right Drive Motor Assembly | 1 |
| | 42886 | Right Motor | 1 |
| | 42889 | Brake | 1 |
| | 42887 | Reducer (To Serial #16921529) | 1 |
| | 47472 | Reducer (From Serial #16921530) | 1 |
| 13 | 42419 | Left Drive Motor Assembly | 1 |
| | 42890 | Left Motor | 1 |
| | 42889 | Brake | 1 |
| | 42887 | Reducer (To Serial #16921529) | 1 |
| | 47472 | Reducer (From Serial #16921530) | 1 |
| | 47192 | Coupler, Brake To Motor | 1 |
| 14 | 53318 | Screw PHMS M06-1.00 x 12 | 5 |
| 45 | 42407 | Plate (Without Outlet Hole) | 1 |
| 15 | 48181 | Plate (With Outlet Hole) | 1 |
| | 42883 | Terminal Connector, Drive Motor Wires | 2 |

Steer Linkage and Wheels Assembly, From Serial #16921530



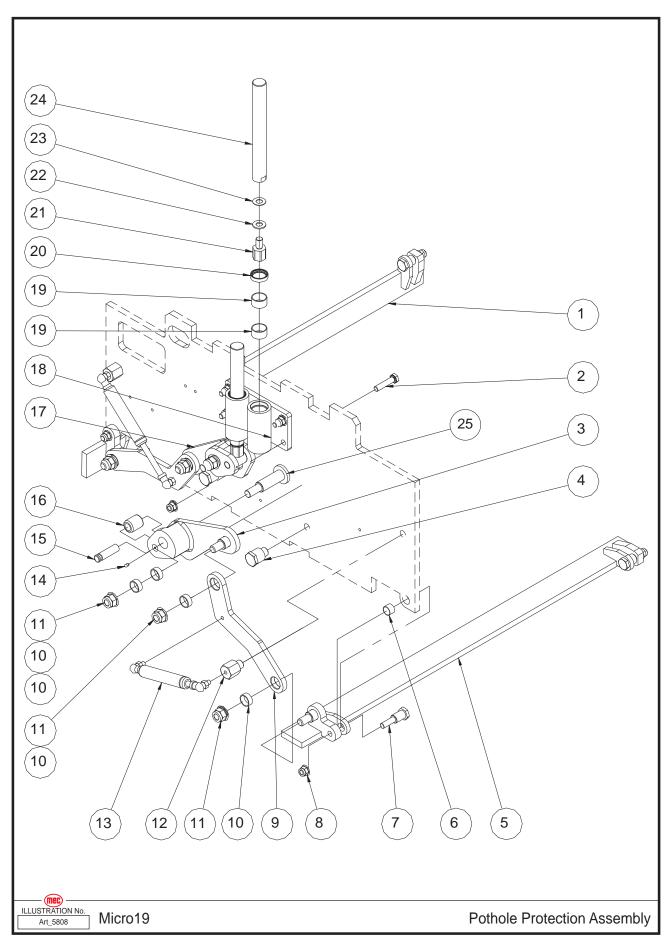
| Item | Part No. | Description | Qty. |
|------|----------|--|------|
| 1 | 41223 | Steer Cylinder Assembly | 1 |
| | 41594 | Seal Kit | 1 |
| 2 | 41298 | Straight Fitting | 2 |
| 3 | 41596 | Cover | 2 |
| 4 | 41794 | Screw | 2 |
| 5 | 41322 | Cotter Pin | 4 |
| 6 | 41321 | Pin | 2 |
| 7 | 41225 | Bearing | 4 |
| 8 | 43564 | Washer | 2 |
| 9 | 41210 | Bearing | 4 |
| 10 | 44607 | Steer Yoke Weldment | 1 |
| 11 | 45265 | Wheel | 2 |
| 12 | 46738 | Nut | 2 |
| 13 | 46739 | Washer | 2 |
| 14 | 41230 | Bearing Cover | 2 |
| 15 | 53269 | Screw CSCS M05-0.80 x 16 | 8 |
| 16 | 43563 | Cotter Pin | 2 |
| 17 | 46745 | Key | 2 |
| 18 | 47526 | Wheel Shaft | 2 |
| 19 | 41024 | Bearing | 4 |
| 20 | 41234 | Connection Plate | 2 |
| 21 | 50429 | Screw HHCS M10-1.50 x 25 Serrated Flange | 12 |
| 22 | 41327 | Washer | 2 |
| 23 | 53347 | Castle Nut M16-1.50 | 2 |
| 24 | 41328 | Cap | 2 |
| 25 | 53282 | Screw CSCS M08-1.25 x 20 | 12 |
| 26 | 44608 | Steer Yoke Weldment | 1 |
| 27 | 41222 | Bearing | 2 |
| 28 | 42412 | Tie Rod | 1 |
| 29 | 50311 | Nut NNYL M10-1.50 Flange | 2 |
| 30 | 41792 | Washer | 2 |
| 31 | 41595 | Bearing | 4 |

Drive Wheel Assembly, From Serial #16921530



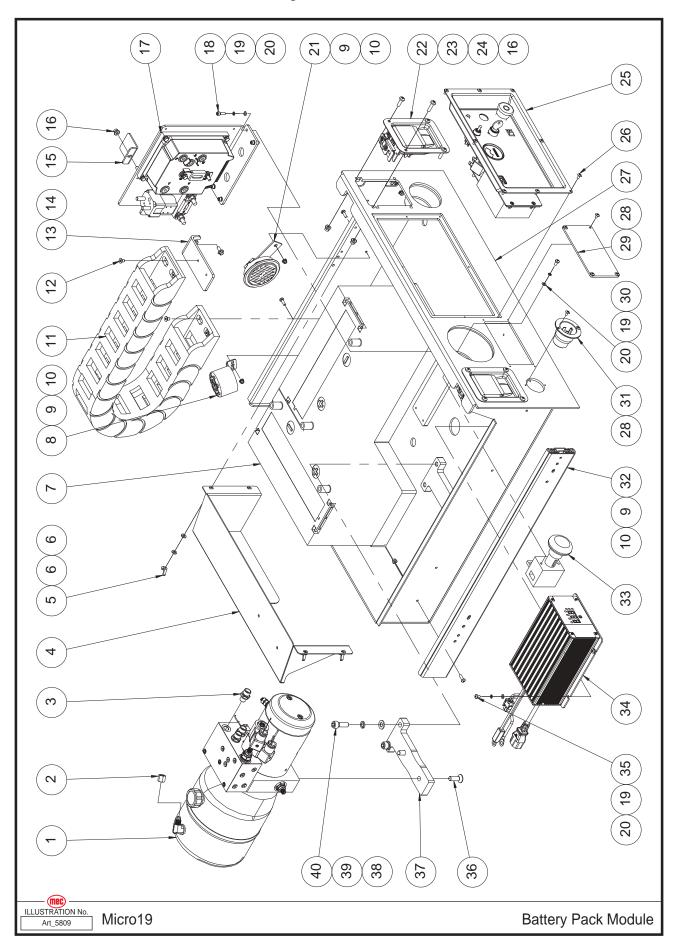
| Item | Part No. | Description | Qty. |
|------|----------|--|------|
| 1 | 46738 | Nut | 2 |
| 2 | 46739 | Washer | 2 |
| 3 | 45265 | Wheel | 2 |
| 4 | 43563 | Cotter Pin | 2 |
| 5 | 41239 | Support | 2 |
| 6 | 53315 | Screw SHCS 3/8-24 x 1 1/4 | 8 |
| 7 | 53316 | WSHR 3/8 Spring Washer | 8 |
| 8 | 53317 | WSHR 3/8 Standard Flat Narrow Washer | 8 |
| 9 | 53268 | Screw HHCS M10-1.50 x 30 Serrated Flange | 8 |
| 10 | 47527 | Right Drive Motor Assembly | 1 |
| | 47528 | Right Motor | 1 |
| | 42889 | Brake | 1 |
| | 47472 | Reducer | 1 |
| | 46745 | Key | 1 |
| 11 | 47529 | Left Drive Motor Assembly | 1 |
| | 47530 | Left Motor | 1 |
| | 42889 | Brake | 1 |
| | 47472 | Reducer | 1 |
| | 46745 | Key | 1 |
| 12 | 53318 | Screw PHMS M06-1.00 x 12 | 5 |
| 13 | 42407 | Plate | 1 |

Pothole Protection Assembly



| Item | Part Number | Description | Qty. |
|------|-------------|------------------------------------|------|
| 1 | 42409 | Pothole Guard Weldment | 1 |
| 2 | 50430 | Screw HHCS M10-1.50 × 45 | 4 |
| 3 | 41319 | Linkage Weldment | 1 |
| 4 | 41211 | Pin | 2 |
| 5 | 42410 | Pothole Guard Weldment | 1 |
| 6 | 41210 | Bearing | 4 |
| 7 | 41209 | Pin | 4 |
| 8 | 50311 | Nut NNYL M10-1.50 Flange | 8 |
| 9 | 42411 | Pothole Link Plate | 2 |
| 10 | 41214 | Bearing | 8 |
| 11 | 53349 | Nut NNYL M14-2.00 Flange | 6 |
| 12 | 41212 | Gas Shock Strut | 2 |
| 13 | 41215 | Gas Shock | 2 |
| 14 | 53283 | Set Screw M05-0.80 x 10 Cone Point | 2 |
| 15 | 41216 | Pin | 2 |
| 16 | 41217 | Roller | 2 |
| 17 | 41320 | Linkage Weldment | 1 |
| 18 | 44609 | Pothole Guide | 1 |
| 19 | 41203 | Bearing | 4 |
| 20 | 44610 | Seal | 2 |
| 21 | 41204 | Pothole Hole Pusher Pin | 2 |
| 22 | 44007 | Adjusting Washer 2 | 2 |
| 23 | 44008 | Adjusting Washer 3 | 2 |
| 24 | 44611 | Pothole Hole Pusher Rod | 2 |
| 25 | 47376 | Pivot Pin, Pothole Weld | 1 |

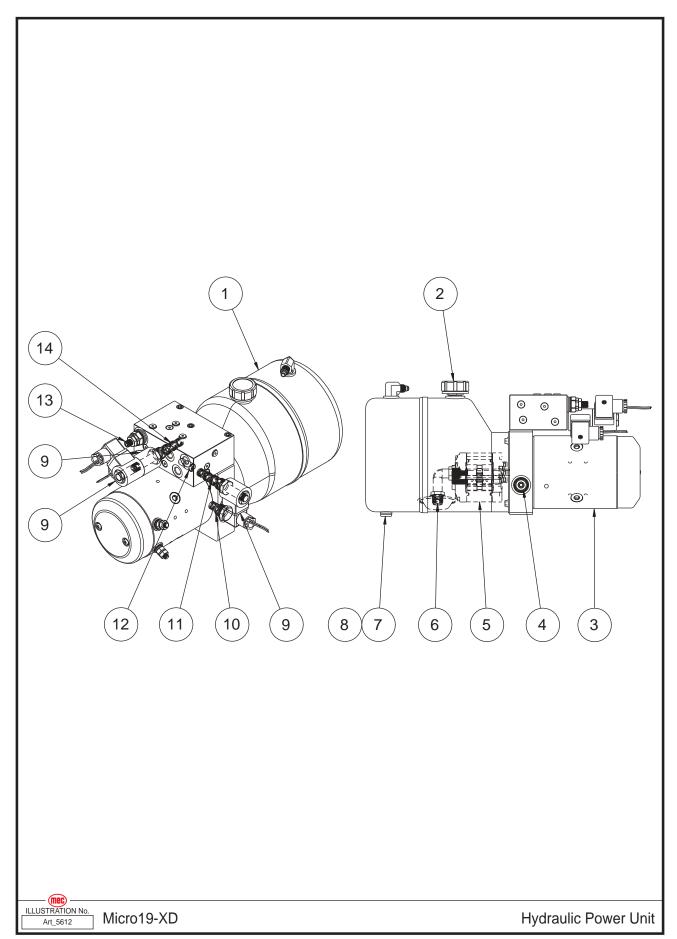
Battery Pack Module



| Item | Part Number | Description | Qty. |
|------|-------------|--|------|
| 1 | 42422 | Hydraulic Power Unit (Refer to page 50) | 1 |
| 2 | 41413 | Nut | 1 |
| 3 | 41296 | Straight Fitting | 3 |
| 4 | 42491 | Ground Control Cover | 1 |
| 5 | 53350 | Wing Nut M06-1.00 | 4 |
| 6 | 50000 | WSHR M06 Standard Flat Washer | 4 |
| 7 | 44019 | Battery | 2 |
| 8 | 41074 | Alarm | 1 |
| 9 | 53281 | Nut NNYL M05-0.80 Flange | 8 |
| 10 | 53351 | Screw PHMS M05-0.80 x 16 | 8 |
| 11 | 43987 | Towline | 1 |
| 12 | 53352 | Screw CSCS M06-1.00 x 10 | 4 |
| 13 | 42430 | Towline Bracket | 1 |
| 14 | 53273 | Screw HHCS M06-1.00 x 14 Serrated Flange | 2 |
| 15 | 42431 | Press Plate | 1 |
| 16 | 50568 | Nut NNYL M06-1.00 Flange | 9 |
| 17 | REF | Motor Controller Assembly (Refer to page 52) | 1 |
| 18 | 50359 | Screw SHCS M05-0.80 x 16 | 4 |
| 19 | 53043 | WSHR M05 Spring Washer | 10 |
| 20 | 53038 | WSHR M05 Standard Flat Washer | 10 |
| 21 | 41075 | Horn | 1 |
| 22 | 43977 | Latch | 2 |
| 23 | 53264 | Screw PHMS M06-1.00 x 20 | 4 |
| 24 | 53353 | Screw PHMS M06-1.00 x 25 | 4 |
| 25 | REF | Ground Control Assembly (Refer to page 54) | 1 |
| 26 | 53348 | Screw THMS M04-0.70 x 10 | 8 |
| 27 | 43988 | Battery Tray Weldment | 1 |
| 28 | 53263 | Screw THMS M04-0.70 x 8 | 6 |
| 29 | 44612 | Cover | 1 |
| 30 | 53354 | Screw PHMS M05-0.80 x 10 | 2 |
| 31 | 41575 | Plug | 1 |
| 32 | 41255 | Glide Track | 2 |
| 33 | 42071 | Power Switch | 1 |
| 34 | 42904 | Charger | 1 |
| 35 | 53222 | Screw PHMS M05-0.80 x 8 | 4 |
| 36 | 53225 | Screw CSCS M10-1.50 x 30 | 2 |
| 37 | 41337 | Bracket | 1 |
| 38 | 50002 | WSHR M10 Standard Flat Washer | 2 |
| 39 | 53054 | WSHR M10 Spring Washer | 2 |
| 40 | 50127 | Screw SHCS M10-1.50 x 30 | 2 |
| 41 | 43978 | Striker, Latch (Not Shown) | 2 |

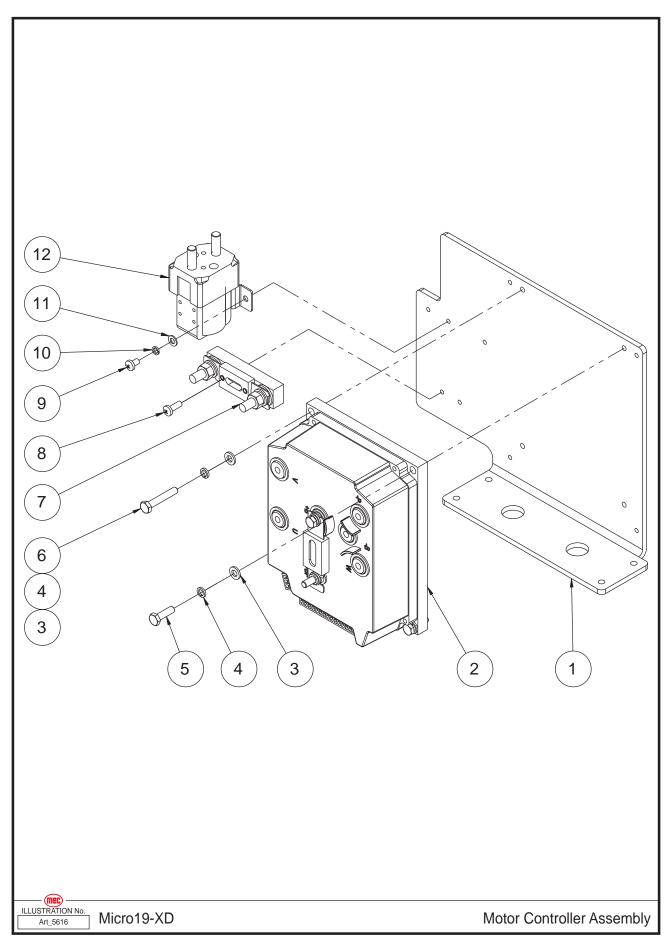
REF - Reference

Hydraulic Power Unit



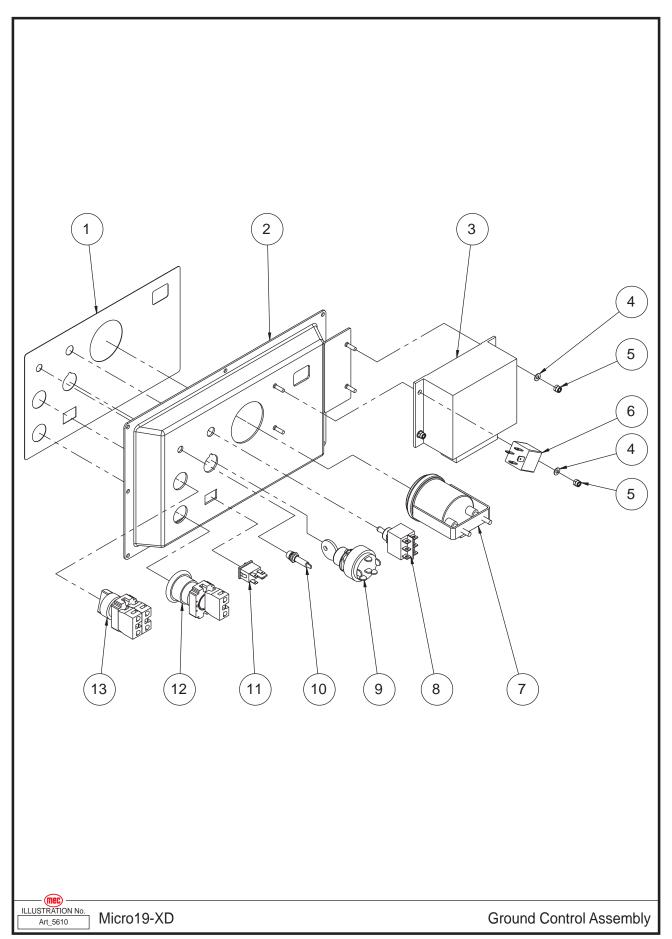
| Item | Part Number | Description | Qty. |
|------|-------------|-----------------------------|------|
| 1 | 42426 | Tank | 1 |
| | 43771 | O-Ring, Tank Seal | 1 |
| 2 | 43784 | Tank Cover | 1 |
| 3 | 42424 | Motor | 1 |
| 4 | 44009 | Relief Valve | 1 |
| 5 | 42425 | Pump | 1 |
| | 44855 | O-Ring, Pump Seal | 1 |
| | 44856 | O-Ring, Pump-Face Seal | 1 |
| 6 | 44010 | Filter Web | 1 |
| 7 | 43776 | Plug | 1 |
| 8 | 43777 | Washer | 1 |
| 9 | 44011 | Coil | 3 |
| 10 | 44013 | Check Valve | 1 |
| 11 | 45305 | Solenoid Valve Spool | 1 |
| 12 | 42427 | Pressure Compensation Valve | 1 |
| 13 | 44012 | Relief Valve | 1 |
| 14 | 41246 | Solenoid Valve Spool | 1 |

Motor Controller Assembly



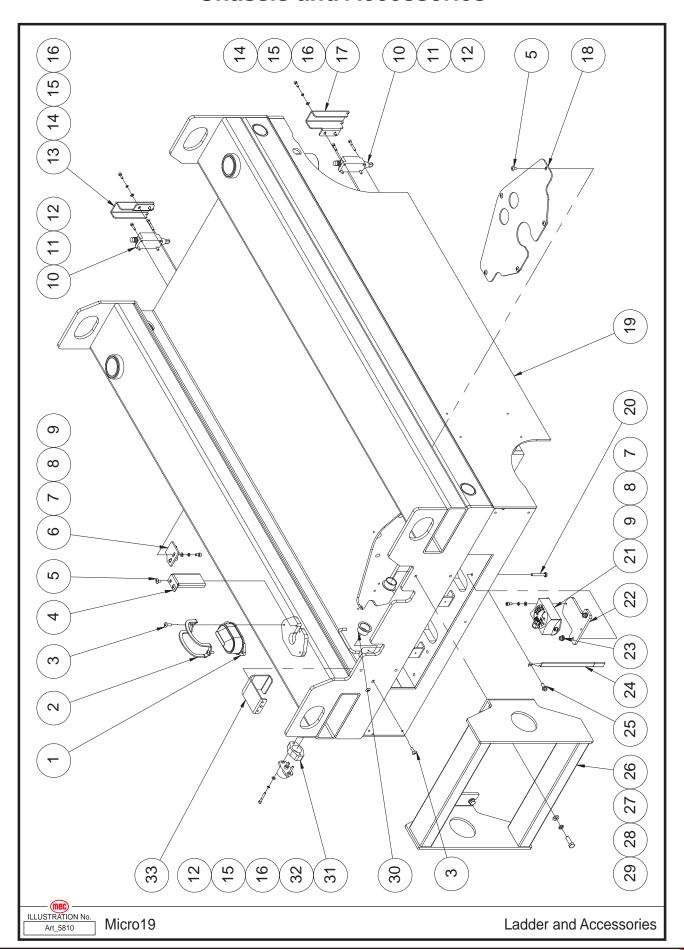
| Item | Part Number | Description | Qty. |
|------|-------------|-------------------------------|------|
| 1 | 42431 | Mounting Plate | 1 |
| 2 | 42496 | Motor Controller | 1 |
| 3 | 50000 | WSHR M06 Standard Flat Washer | 4 |
| 4 | 53046 | WSHR M06 Spring Washer | 4 |
| 5 | 50028 | Screw HHCS M06-1.00 x 20 | 3 |
| 6 | 50327 | Screw HHCS M06-1.00 x 35 | 1 |
| 7 | 42432 | 200A Fuse Assembly | 1 |
| | 44014 | 200A Fuse | 1 |
| | 41092 | Fuse Seat | 1 |
| 8 | 53355 | Screw PHMS M05-0.80 x 14 | 2 |
| 9 | 53222 | Screw PHMS M05-0.80 x 8 | 2 |
| 10 | 53043 | WSHR M05 Spring Washer | 2 |
| 11 | 53038 | WSHR M05 Standard Flat Washer | 2 |
| 12 | 41331 | DC Contactor | 1 |

Ground Control Assembly



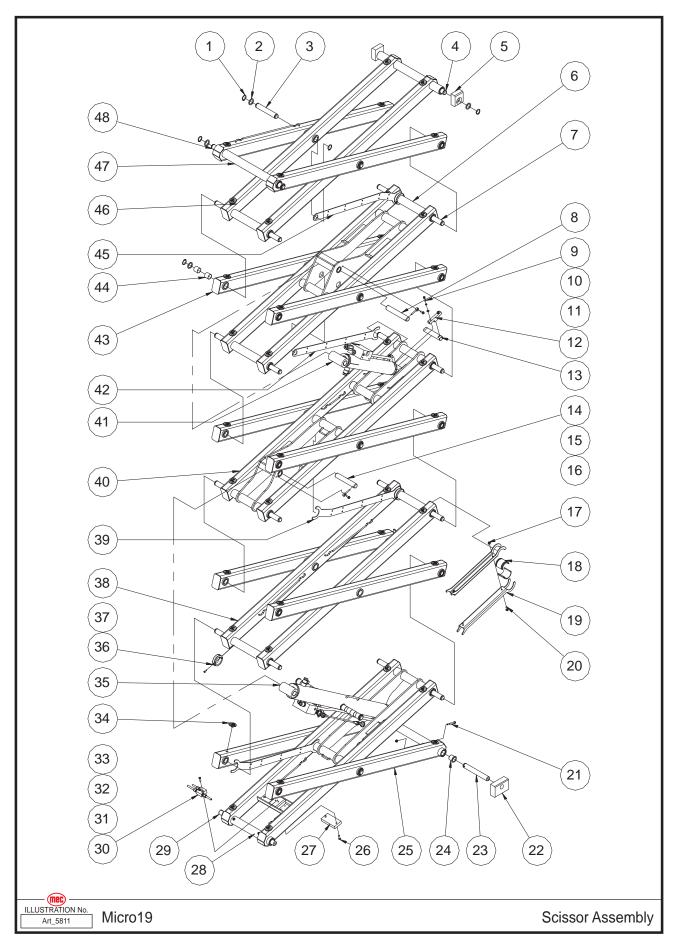
| Item | Part Number | Description | Qty. |
|------|-------------|-------------------------------|------|
| 1 | 44536 | Decal, Ground Control Panel | 1 |
| 2 | 43990 | Ground Control Panel Weldment | 1 |
| 3 | 44580 | Controller | 1 |
| 4 | 50284 | WSHR M04 Standard Flat Washer | 4 |
| 5 | 50285 | Nut NNYL M04 × 0.70 | 4 |
| 6 | 41334 | Relay 24V | 1 |
| 7 | 41070 | Hour Meter | 1 |
| 8 | 41419 | Toggle Switch | 1 |
| 9 | 41418 | Key Switch | 1 |
| | 91574 | Key | 1 |
| 10 | 41421 | Indicator | 1 |
| 11 | 43991 | Brake Release Switch | 1 |
| 12 | 41422 | Emergency Stop Assembly | 1 |
| | 43098 | Red Mushroom Head | 1 |
| | 43097 | Base With 1 NC Contact | 1 |
| 13 | 43992 | Select Switch Assembly | 1 |
| | 43993 | Select Switch Head | 1 |
| | 43994 | Base With 1 NO Contact | 1 |
| | 43096 | NC Contact | 1 |

Chassis and Accessories



| Item | Part Number | Description | Qty. |
|------|-------------|--|------|
| 1 | 41310 | Beacon | 1 |
| 2 | 41309 | Beacon Cover | 1 |
| 3 | 53223 | Screw THMS M05-0.80 x 16 | 4 |
| 4 | 44613 | Baffle Plate | 1 |
| 5 | 53265 | Screw THMS M05-0.80 x 10 | 7 |
| 6 | 43978 | Lock Clasp | 2 |
| 7 | 53173 | Screw SHCS M05-0.80 x 10 | 6 |
| 8 | 53043 | WSHR M05 Spring Washer | 6 |
| 9 | 53038 | WSHR M05 Standard Flat Washer | 6 |
| 10 | 41197 | Limit Switch | 2 |
| 11 | 53113 | Screw SHCS M04-0.70 x 16 | 4 |
| 12 | 53065 | Screw SHCS M04-0.70 x 30 | 6 |
| 13 | 41315 | Switch Cover | 1 |
| 14 | 50423 | Screw SHCS M04-0.70 x 12 | 4 |
| 15 | 53062 | WSHR M04 Spring Washer | 6 |
| 16 | 50284 | WSHR M04 Standard Flat Washer | 6 |
| 17 | 41198 | Switch Cover | 1 |
| 18 | 42401 | Cover | 1 |
| 19 | 44614 | Frame Weldment | 1 |
| 20 | 50289 | Screw HHCS M06-1.00 × 40 | 2 |
| 21 | 41098 | Tilt Sensor | 1 |
| 22 | 42403 | Sensor Bracket | 1 |
| 23 | 50568 | Nut NNYL M06-1.00 Flange | 2 |
| 24 | 41003 | Ground Strap | 1 |
| 25 | 53273 | Screw HHCS M06-1.00 x 14 Serrated Flange | 1 |
| 26 | 44615 | Ladder | 1 |
| 27 | 50001 | WSHR M08 Standard Flat Washer | 4 |
| 28 | 53055 | WSHR M08 Spring Washer | 4 |
| 29 | 50031 | Screw HHCS M08-1.25 x 25 | 4 |
| 30 | 41257 | Bearing | 2 |
| 31 | 41194 | Sensor Bracket | 1 |
| 32 | 41195 | Rotary Sensor | 1 |
| 33 | 44616 | Cover | 1 |

Scissor Assembly



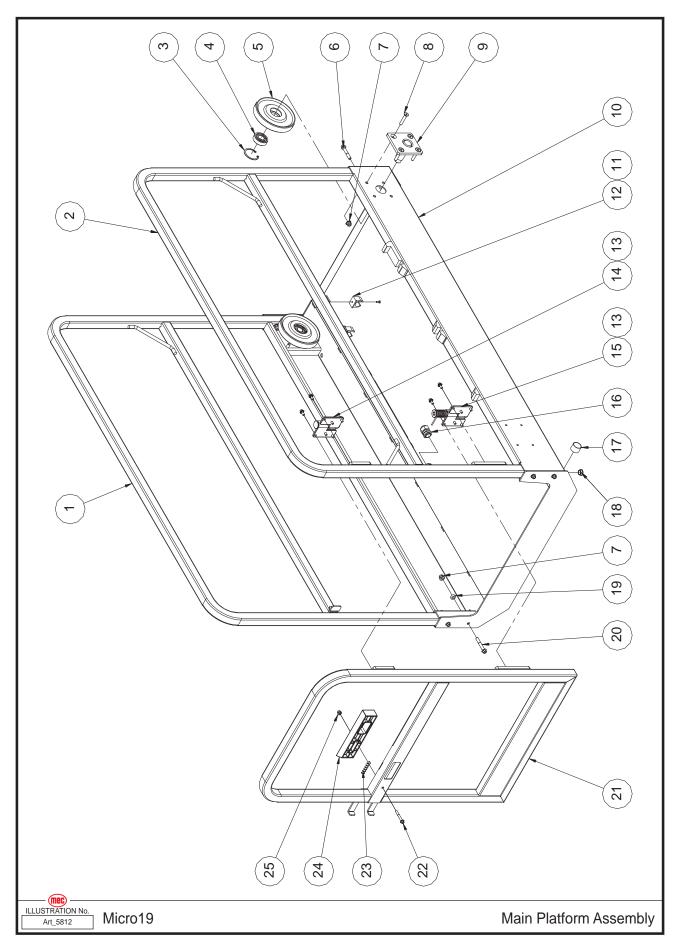
| Item | Part Number | Description | Qty. |
|------|-------------|---|------|
| 1 | 42437 | Circlips | 36 |
| 2 | 41354 | Washer | 34 |
| 3 | 41349 | Pin | 6 |
| 4 | 41576 | Pin | 1 |
| 5 | 41256 | Platform Slider | 2 |
| 6 | 44617 | Inner Arm 4 | 1 |
| 7 | 41577 | Pin | 10 |
| 8 | 42454 | Pin | 1 |
| 9 | 53123 | Screw SHCS M06-1.00 x 25 | 4 |
| 10 | 53046 | WSHR M06 Spring Washer | 4 |
| 11 | 50000 | WSHR M06 Standard Flat Washer | 4 |
| 12 | 42439 | Lock Plate | 2 |
| 13 | 42440 | Pin | 1 |
| 14 | 41345 | Pin | 2 |
| 15 | 42449 | Pin | 3 |
| 16 | 53256 | Screw HHCS M06-1.00 x 16 Serrated Flange | 3 |
| 17 | 50568 | Nut NNYL M06-1.00 Flange | 6 |
| 18 | 41262 | Safety Arm Bushing | 2 |
| 19 | 41263 | Safety Arm | 2 |
| 20 | 53255 | Screw HHCS M06-1.00 × 20 Serrated Flange | 2 |
| 21 | 53357 | Screw HHCS M06-1.00 x 55 Flange | 4 |
| 22 | 44801 | Chassis Slider | 2 |
| 23 | 41338 | Pin | 2 |
| 24 | 42446 | Bearing | 28 |
| 25 | 44802 | Outer Arm 1 | 1 |
| 26 | 50386 | Screw CSCS M06-1.00 x 25 | 4 |
| 27 | 41350 | Pothole Pusher | 1 |
| 28 | 44803 | Inner Arm 1 | 1 |
| 29 | 41258 | Pin | 1 |
| 30 | 41112 | Hydraulic Hoses Manifolds | 1 |
| 31 | 43601 | Hose | 1 |
| 32 | 44015 | Hose | 1 |
| 33 | 43997 | Hose | 1 |
| 34 | 41114 | Block | 40 |
| 35 | REF | Lower Lift Cylinder Assembly (Refer to page 74) | 1 |
| 36 | 44050 | Collar | 3 |
| 37 | 53269 | Screw CSCS M05-0.80 x 16 | 3 |
| 38 | 44804 | Inner Arm 2 | 1 |
| 39 | 44805 | Cable Bridge | 2 |
| 40 | 44806 | Inner Arm 3 | 1 |
| 41 | REF | Upper Lift Cylinder Assembly (Refer to page 76) | 1 |
| 42 | 42438 | Cable Bridge | 1 |
| 43 | 44807 | Outer Arm 2 | 6 |
| 44 | 41287 | Bearing | 64 |
| 45 | 43744 | Cable Bridge | 1 |
| 40 | 40144 | Oabie biluge | I |

| 46 | 44808 | Inner Arm 5 | 1 |
|----|-------|-------------|---|
| 47 | 44809 | Outer Arm 5 | 1 |
| 48 | 42457 | Pin | 1 |

REF - Reference

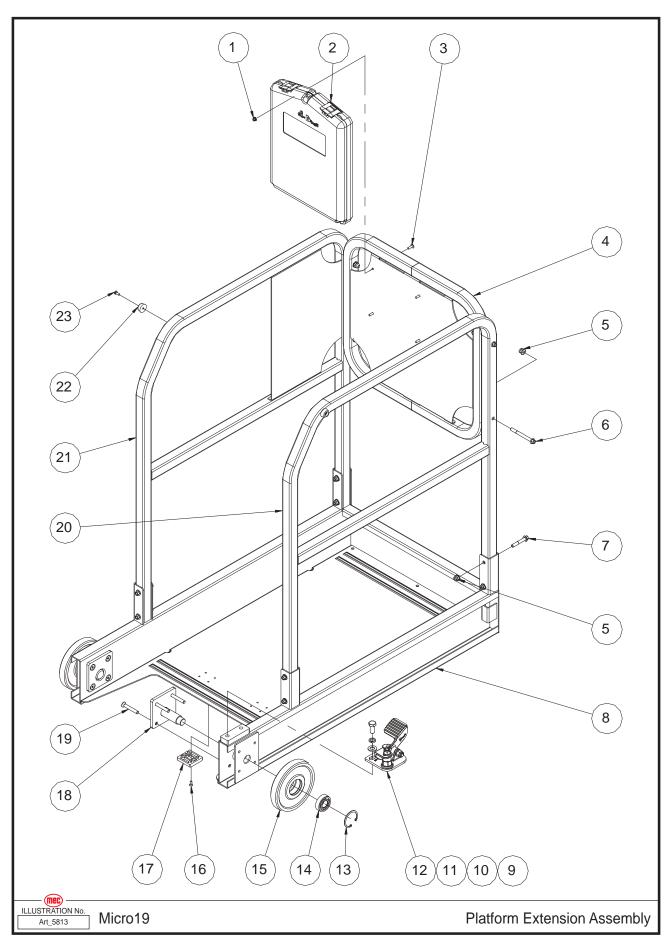
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Main Platform Assembly



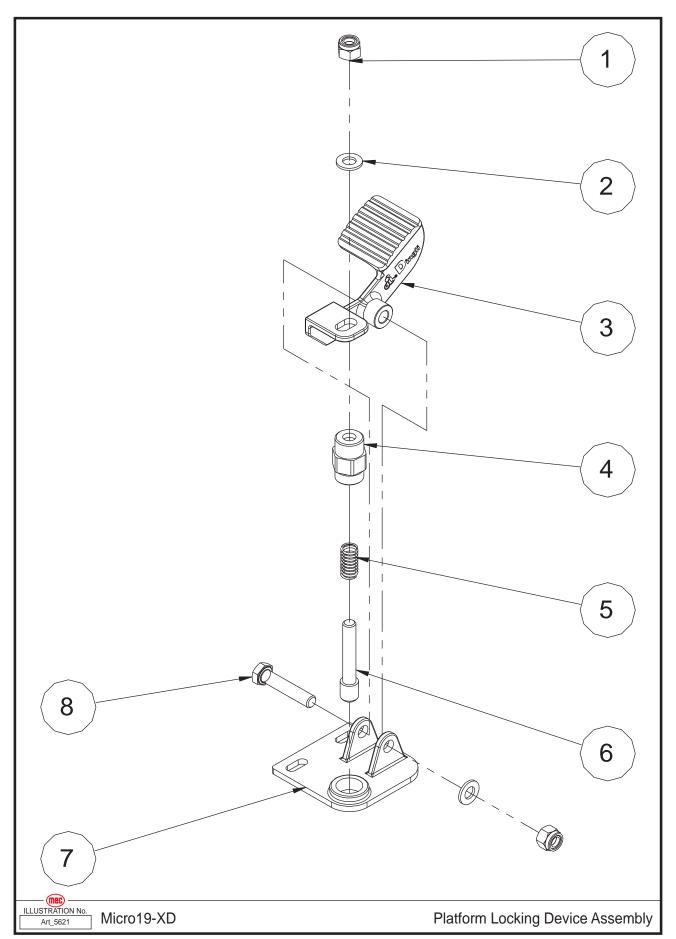
| Item | Part Number | Description | Qty. |
|------|-------------|--|------|
| 1 | 44810 | Left Main Rail | 1 |
| 2 | 44811 | Right Main Rail | 1 |
| 3 | 43618 | Circlips | 2 |
| 4 | 41131 | Bearing | 2 |
| 5 | 41269 | Roller | 2 |
| 6 | 53358 | Screw HHCS M08-1.25 x 50 Flange | 4 |
| 7 | 50313 | Nut NNYL M08-1.25 Flange | 8 |
| 8 | 53275 | Screw CSCS M08-1.25 x 45 | 8 |
| 9 | 41360 | Roller Bracket | 2 |
| 10 | 42461 | Main Deck Weldment | 1 |
| 11 | 53276 | Screw PHMS M04-0.70 x 8 | 2 |
| 12 | 41134 | Clip | 2 |
| 13 | 53273 | Screw HHCS M06-1.00 x 14 Serrated Flange | 12 |
| 14 | 41127 | Hinge A | 1 |
| 15 | 41128 | Hinge B | 1 |
| 16 | 41273 | Water-Proof Joint | 1 |
| 17 | 41046 | Bearing | 2 |
| 18 | 41275 | Sheath | 1 |
| 19 | 42462 | Washer | 4 |
| 20 | 53359 | Screw HHCS M08-1.25 x 55 Flange | 4 |
| 21 | 44584 | Entry Gate | 1 |
| 22 | 53360 | Screw HHCS M06-1.00 x 45 Flange | 1 |
| 23 | 41277 | Spring | 1 |
| 24 | 41278 | Latch Handle | 1 |
| 25 | 50568 | Nut NNYL M06-1.00 Flange | 1 |

Platform Extension Assembly



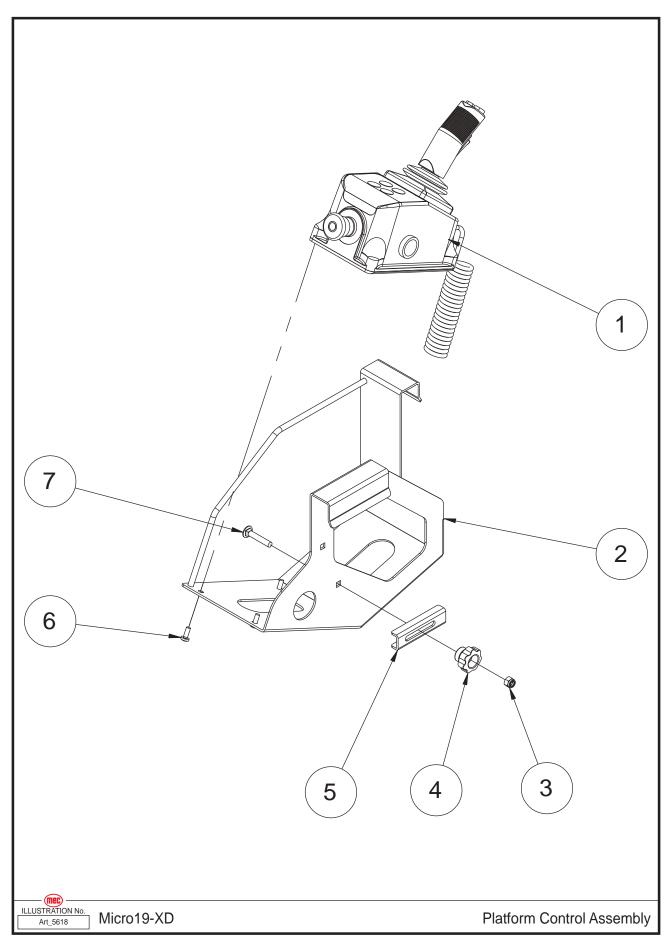
| Item | Part Number | Description | Qty. |
|------|-------------|---|------|
| 1 | 53281 | Nut NNYL M05-0.80 Flange | 4 |
| 2 | 43319 | Manual Box | 1 |
| 3 | 53223 | Screw THMS M05-0.80 x 16 | 4 |
| 4 | 41283 | Front Rail | 1 |
| 5 | 50313 | Nut NNYL M08-1.25 Flange | 12 |
| 6 | 53409 | Screw HHCS M08-1.25 x 80 Flange | 4 |
| 7 | 53358 | Screw HHCS M08-1.25 x 50 Flange | 8 |
| 8 | 44586 | Extension Deck Weldment | 1 |
| 9 | 50038 | Screw HHCS M12-1.50 x 25 | 2 |
| 10 | 53148 | WSHR M12 Spring Washer | 2 |
| 11 | 50003 | WSHR M12 Standard Flat Washer | 2 |
| 12 | 44599 | Platform Locking Device Assembly (Refer to page 66) | 1 |
| 13 | 43618 | Circlips | 2 |
| 14 | 41131 | Bearing | 2 |
| 15 | 41141 | Roller 2 | 2 |
| 16 | 53279 | Screw CSCS M05-0.80 x 12 | 8 |
| 17 | 41284 | Slide Pad | 2 |
| 18 | 41360 | Roller Bracket | 2 |
| 19 | 53280 | Screw CSCS M08-1.25 × 55 | 8 |
| 20 | 44812 | Right Extension Rail | 1 |
| 21 | 44800 | Left Extension Rail | 1 |
| 22 | 41120 | Bumper | 2 |
| 23 | 53378 | Screw PHMS M05-0.80 x 12 | 2 |

Platform Locking Device Assembly



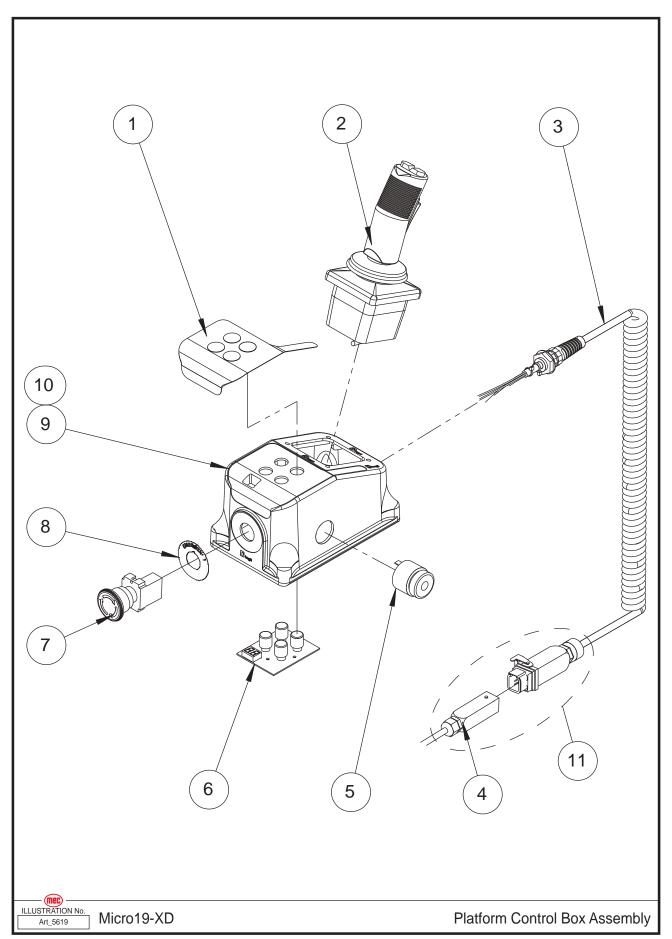
| Item | Part Number | Description | Qty. |
|------|-------------|-------------------------------|------|
| 1 | 50049 | Nut NNYL M10 × 1.50 | 2 |
| 2 | 50002 | WSHR M10 Standard Flat Washer | 2 |
| 3 | 41143 | Foot Pedal | 1 |
| 4 | 41144 | Lock Pin Housing | 1 |
| 5 | 41145 | Spring | 1 |
| 6 | 41146 | Lock Pin | 1 |
| 7 | 44767 | Bracket | 1 |
| 8 | 50020 | Screw HHCS M10-1.50 x 50 | 1 |

Platform Control Assembly



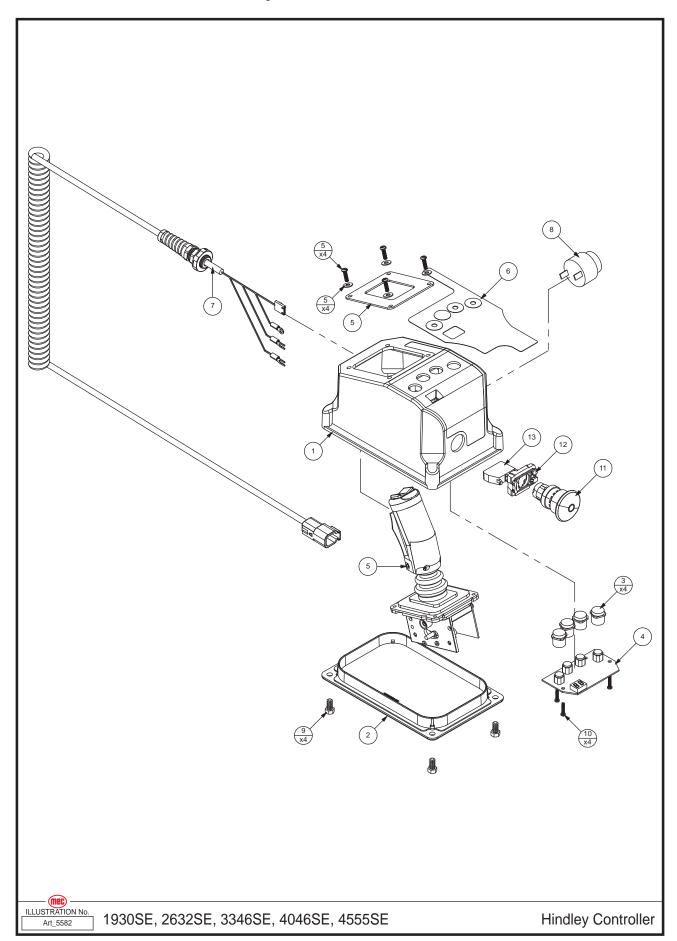
| Item | Part Number | Description | Qty. |
|------|-------------|--|------|
| 1 | 41137 | Platform Control Box Assembly (Refer to page 70) | 1 |
| 2 | 42499 | Platform Control Box Mount Bracket | 1 |
| 3 | 50048 | Nut NNYL M08 x 1.25 | 1 |
| 4 | 42501 | Handle | 1 |
| 5 | 42500 | Locating Plate | 1 |
| 6 | 53231 | Screw PHMS M06-1.00 x 16 | 4 |
| 7 | 53248 | Screw CARB M08-1.25 x 45 | 1 |

Platform Control Box Assembly



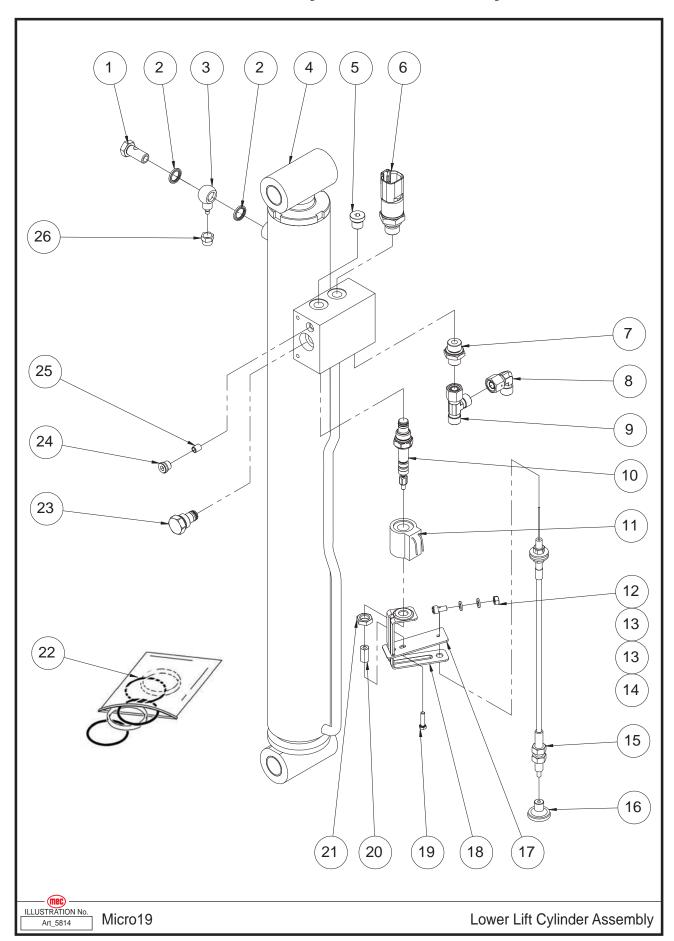
| Item | Part Number | Description | Qty. |
|------|-------------|-------------------------------|------|
| 1 | 41632 | Decal, Platform Control Panel | 1 |
| 2 | 41149 | Joystick | 1 |
| | 43621 | Function Enable Switch | 1 |
| | 41150 | Joystick Cover | 1 |
| | 43622 | Joystick Steer Switch | 1 |
| | 43623 | Switch Boot | 1 |
| 3 | 41152 | Coil Cord | 1 |
| | 43624 | Housing | 1 |
| | 43625 | Male Insert | 1 |
| | 43626 | Male Contacts | 5 |
| | 43627 | Cable Gland | 1 |
| 4 | 42483 | Platform Control Box Harness | 1 |
| | 43628 | Hood | 1 |
| | 43629 | Female Insert | 1 |
| | 43630 | Female Contacts | 5 |
| | 43627 | Cable Gland | 1 |
| 5 | 41568 | Alarm | 1 |
| | 43631 | Alarm Nut | 1 |
| 6 | 41156 | Main Board | 1 |
| | 41155 | Button | 4 |
| 7 | 41157 | Emergency Stop Switch | 1 |
| | 43632 | Red Mushroom Head | 1 |
| | 43633 | Base With 1 NC Contact | 1 |
| 8 | 42915 | Decal, Emergency Stop Panel | 1 |
| 9 | 43634 | Enclosure | 1 |
| 10 | 43635 | Cover Bottom | 1 |
| 11 | 41271 | Connector Kit | 1 |

Hindley Platform Controls



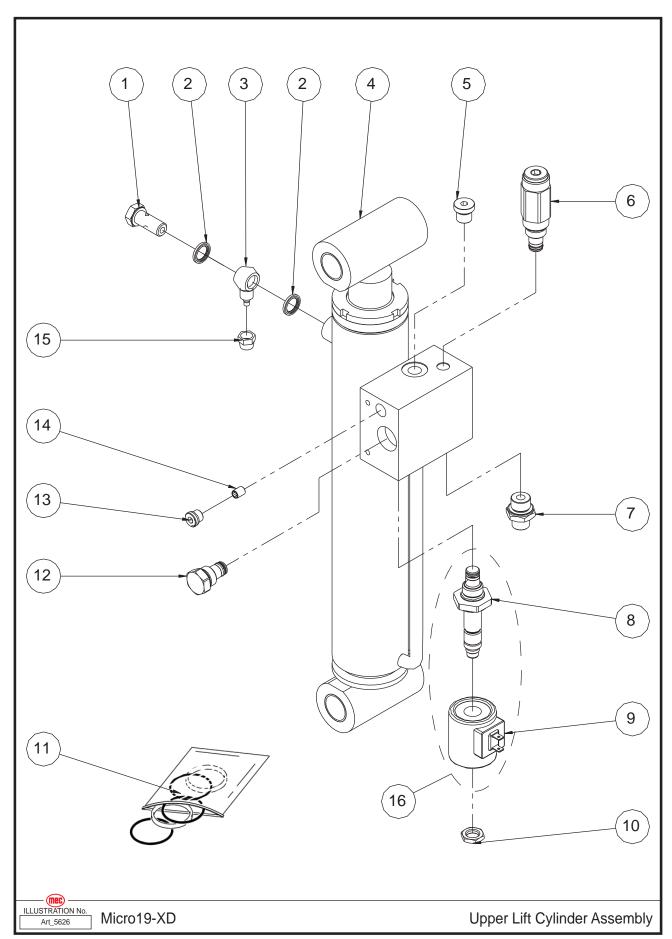
| Item | Part Number | Description | Qty. |
|------|-------------|---|------|
| 1 | 43819 | Enclosure | 1 |
| 2 | 43820 | Control Box Bottom | 1 |
| 3 | 43821 | Clear Switch Actuator | 4 |
| 4 | 43822 | Circuit Bd Push Button | 1 |
| 5 | 43823 | Joystick | 1 |
| 6 | 43835 | Decal, Upper Control Box | 1 |
| 7 | 43824 | Coil Cord Assembly (Includes Connector) | 1 |
| 8 | 43825 | Continuous Tone Alarm, 6-28V | 1 |
| 9 | 53306 | HHMS 1/4-20 x 1/2 | 4 |
| 10 | 43826 | Fastener, Thread Forming, Plastite #4 | 4 |
| 11 | 43827 | E-Stop Button | 1 |
| 12 | 43828 | Switch Mount | 1 |
| 13 | 94433 | Single Contact Block, 1 NC, 22mm, Harmony XB4 | 1 |

Lower Lift Cylinder Assembly



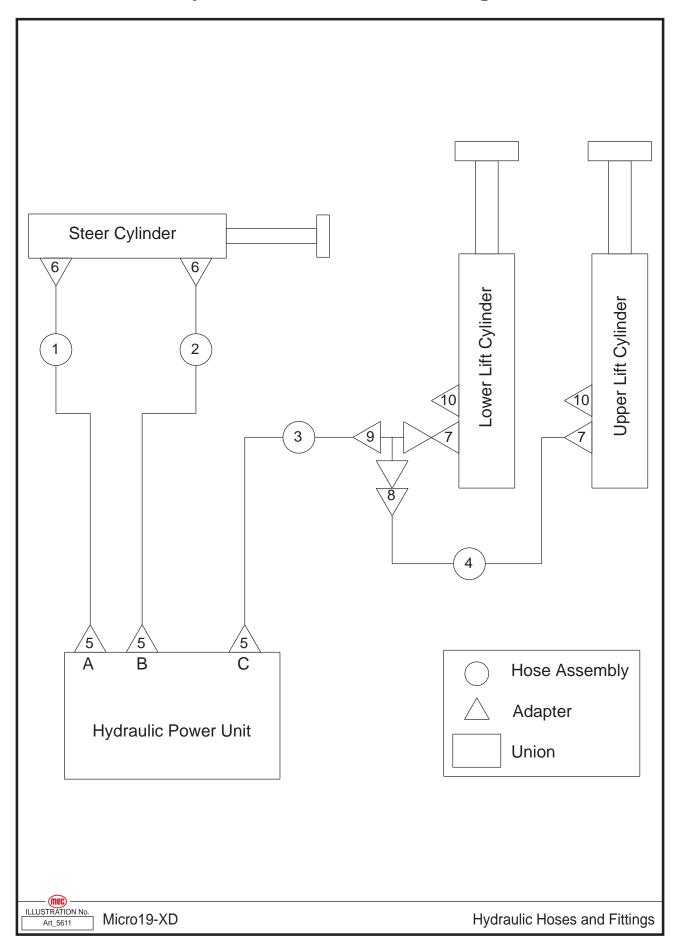
| Item | Part Number | Description | Qty. |
|------|-------------|-------------------------------|------|
| 1 | 41166 | Fitting | 1 |
| 2 | 43361 | Washer | 2 |
| 3 | 41167 | Fitting | 1 |
| 4 | 44832 | Lower Lift Cylinder | 1 |
| 5 | 42480 | Plug | 1 |
| 6 | 44448 | Pressure Sensor | 1 |
| 7 | 43638 | Straight Fitting | 1 |
| 8 | 43639 | Elbow | 1 |
| 9 | 43640 | Tee Fitting | 1 |
| 10 | 44003 | Solenoid Valve Spool | 1 |
| 11 | 41929 | Coil | 1 |
| 12 | 53361 | Nut NHEX M06-1.00 | 1 |
| 13 | 50000 | WSHR M06 Standard Flat Washer | 2 |
| 14 | 42466 | Screw | 1 |
| 15 | 42465 | Emergency Down Cable Assembly | 1 |
| 16 | 41162 | Lowering Knob | 1 |
| 17 | 44833 | Plate | 1 |
| 18 | 44834 | Support | 1 |
| 19 | 53179 | Screw HHCS M05-0.80 x 20 | 1 |
| 20 | 44004 | Cable Connector | 1 |
| 21 | 53362 | Nut NHEX 1/2-20 UNF | 1 |
| 22 | 42470 | Seal Kit | 1 |
| 23 | 43369 | Check Valve | 1 |
| 24 | 42821 | Plug | 1 |
| 25 | 43370 | Orifice | 1 |
| 26 | 41413 | Nut | 1 |

Upper Lift Cylinder Assembly



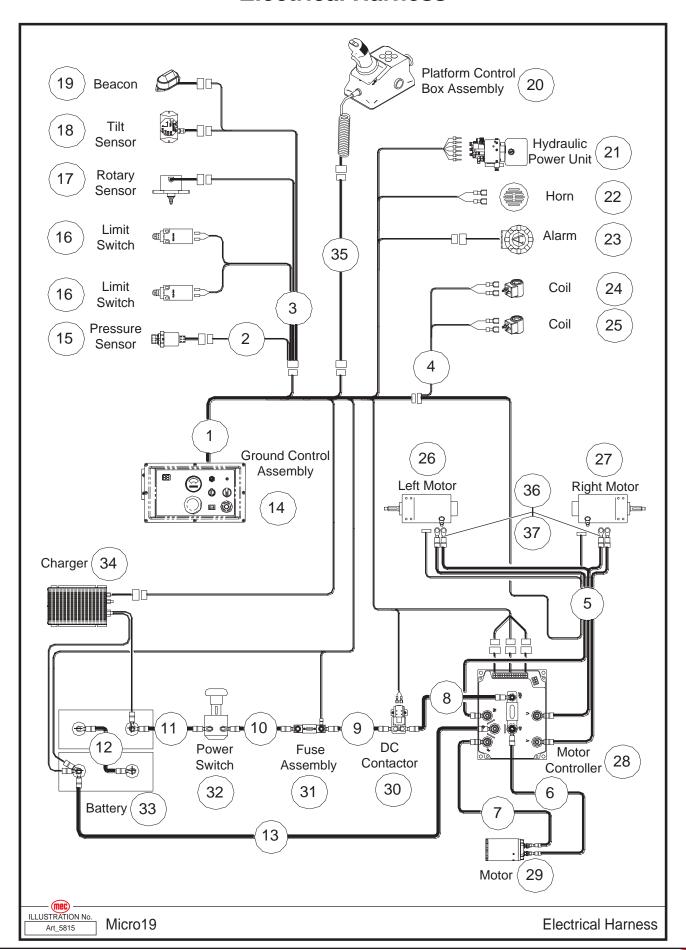
| Item | Part Number | Description | Qty. |
|------|-------------|----------------------|------|
| 1 | 41166 | Fitting | 1 |
| 2 | 43361 | Washer | 2 |
| 3 | 41167 | Fitting | 1 |
| 4 | 44835 | Upper Lift Cylinder | 1 |
| 5 | 42480 | Plug | 1 |
| 6 | 41169 | Relief Valve | 1 |
| 7 | 43638 | Straight Fitting | 1 |
| 8 | 43372 | Solenoid Valve Spool | 1 |
| 9 | 41551 | Coil | 1 |
| 10 | 42795 | Nut | 1 |
| 11 | 42475 | Seal Kit | 1 |
| 12 | 43369 | Check Valve | 1 |
| 13 | 42821 | Plug | 1 |
| 14 | 44017 | Orifice | 1 |
| 15 | 41413 | Nut | 1 |
| 16 | 42473 | Valve with Coil | 1 |

Hydraulic Hoses and Fittings



| Item | Part Number | Description | Qty. |
|------|-------------|------------------|------|
| 1 | 42476 | Hose Assembly | 1 |
| 2 | 42477 | Hose Assembly | 1 |
| 3 | 45185 | Hose Assembly | 1 |
| 4 | 44018 | Hose Assembly | 1 |
| 5 | 41296 | Straight Fitting | 3 |
| 6 | 41298 | Straight Fitting | 2 |
| 7 | 43638 | Straight Fitting | 2 |
| 8 | 43639 | Elbow | 1 |
| 9 | 43640 | Tee Fitting | 1 |
| 10 | 42480 | Plug | 2 |

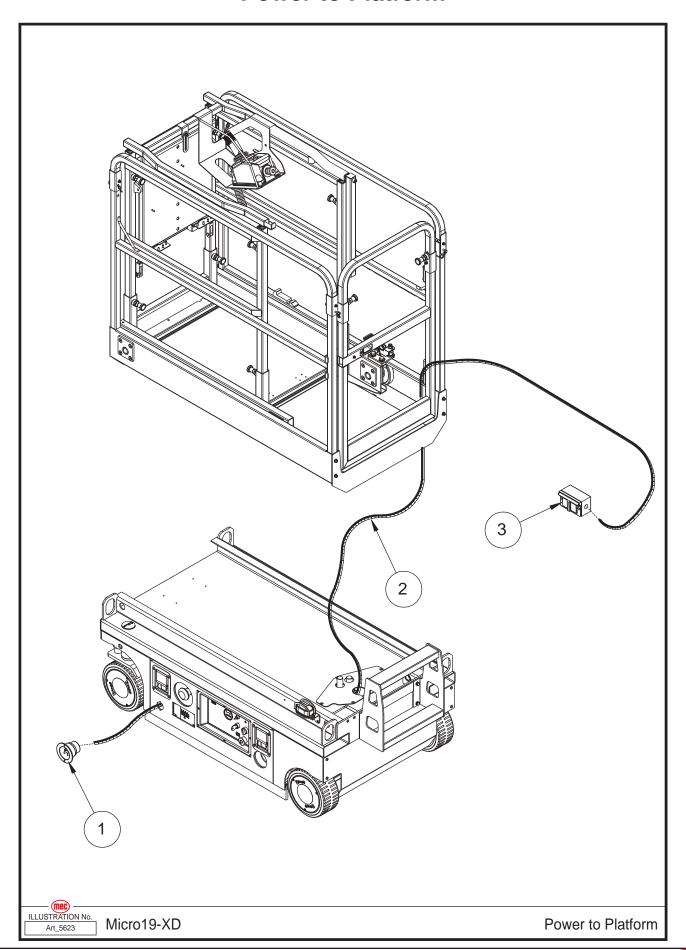
Electrical Harness



| Item | Part Number | Description | Qty. |
|------|-------------|--|------|
| 1 | 42481 | ECU Harness | 1 |
| 2 | 44836 | Pressure Sensor Harness | 1 |
| 3 | 42540 | Accessories Harness | 1 |
| 4 | 43755 | Lowering Valve | 1 |
| 5 | 42484 | Drive Motor Harness | 1 |
| 6 | 41921 | Pump Motor Positive Harness | 1 |
| 7 | 44055 | Pump Motor Negative Harness | 1 |
| 8 | 41917 | Motor Controller Harness | 1 |
| 9 | 42485 | DC Contactor Harness | 1 |
| 10 | 42486 | Fuse Harness | 1 |
| 11 | 42487 | Battery Positive Harness | 1 |
| 12 | 42488 | Battery Harness | 1 |
| 13 | 45189 | Battery Negative Harness | 1 |
| 14 | REF | Ground Control Assembly (Refer to page 54) | 1 |
| 15 | REF | Pressure Sensor (Refer to page 74) | 1 |
| 16 | REF | Limit Switch, Pothole (Refer to page 56) | 2 |
| 17 | REF | Rotary Sensor (Refer to page 56) | 1 |
| 18 | REF | Tilt Sensor (Refer to page 56) | 1 |
| 19 | REF | Beacon (Refer to page 56) | 1 |
| 20 | REF | Platform Control Box Assembly (Refer to page 70) | 1 |
| 21 | REF | Hydraulic Power Unit (Refer to page 50) | 1 |
| 22 | REF | Horn (Refer to page 48) | 1 |
| 23 | REF | Alarm (Refer to page 48) | 1 |
| 24 | REF | Coil (Refer to page 74) | 1 |
| 25 | REF | Coil (Refer to page 76) | 1 |
| 26 | REF | Left Motor (Refer to page 40 and page 44) | 1 |
| 27 | REF | Right Motor (Refer to page 40 and page 44) | 1 |
| 28 | REF | Motor Controller (Refer to page 52) | 1 |
| 29 | REF | Motor (Refer to page 50) | 1 |
| 30 | REF | DC Contactor (Refer to page 52) | 1 |
| 31 | REF | 200A Fuse Assembly (Refer to page 52) | 1 |
| 32 | REF | Power Switch (Refer to page 48) | 1 |
| 33 | REF | Battery (Refer to page 48) | 2 |
| 34 | REF | Charger (Refer to page 48) | 1 |
| 35 | 42483 | Harness, Platform Control Box | 1 |
| 00 | 42883 | Screw Terminal Connector (Serial #16900100-16918098) | 2 |
| 36 | 47281 | Connector, Drive Motor (From Serial #16918099) | 2 |
| 37 | 47282 | Terminal (For 47281 Only) | 4 |

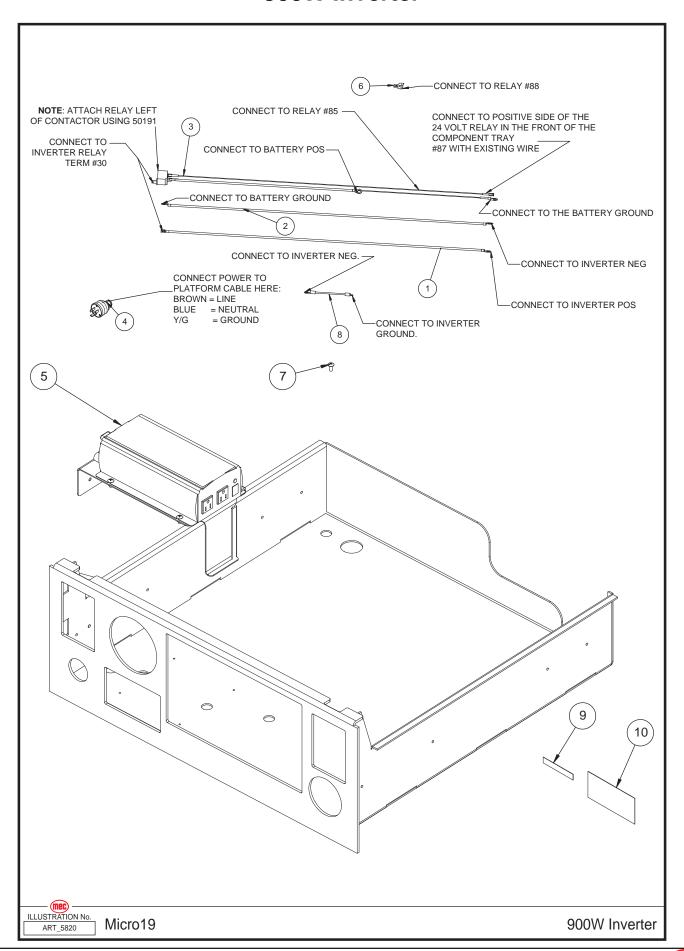
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Power to Platform



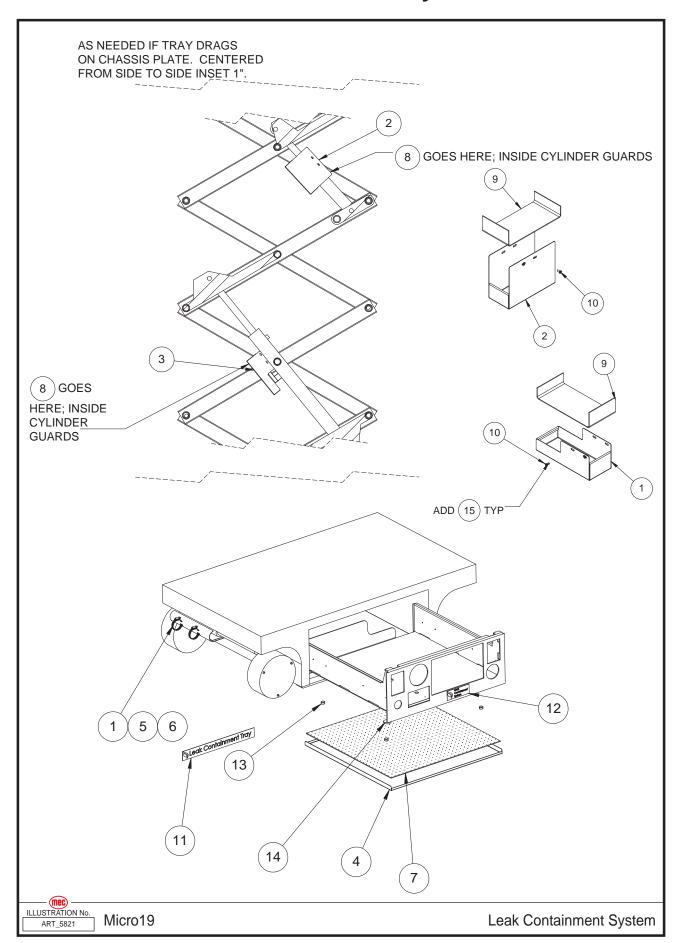
| Item | Part Number | Description | Qty. |
|------|-------------|-------------------------------|------|
| 1 | 41575 | AC Plug (Refer to page 48) | 1 |
| 2 | 44005 | Wire Cable, Platform AC Power | 1 |
| 3 | 42613 | AC Socket | 1 |

900W Inverter



| Item | Part Number | Description | Qty. |
|------|-------------|---|------|
| 1 | 41673 | Option, Inverter Positive Cable 1330 & Micro19 | 1 |
| 2 | 41674 | Option, Inverter Negative Cable 1330 & Micro19 | 1 |
| 3 | 42489 | Inverter Relay Harness | 1 |
| 4 | 91544 | Plug, Male 3 Prong 15 Amp | 1 |
| 5 | 43764 | Inverter, Bracket Assy | 1 |
| | 42508 | Bracket, Inverter | 1 |
| | 50191 | THMS #10-32X00.50 ZP | 4 |
| | 50238 | NNYL #10-32 05 Z | 4 |
| | 92535-1 | Trimlok 150B2X1/4, 3/4 in | 1 |
| | 92535-2 | Trimlok 150B2X1/4, 2-1/2 in | 1 |
| | 92535-3 | Trimlok 150B2X1/4, 4-1/2 in | 1 |
| | 92535-4 | Trimlok 150B2X1/4, 6 in | 1 |
| | 94359 | Power Inverter, 900W 24V DC To AC | 1 |
| 6 | 94416 | Quick-Disconnect Terminal Splitter, Side-by-side, Male, 0.25" | 1 |
| 7 | 50191 | THMS #10-32X00.50 ZP | 1 |
| 8 | 43754 | Inverter Option: Ground Cable | 1 |
| 9 | 90750 | Decal, Battery Charger | 1 |
| 10 | 94648 | Decal, AC/DC Inverter | 1 |

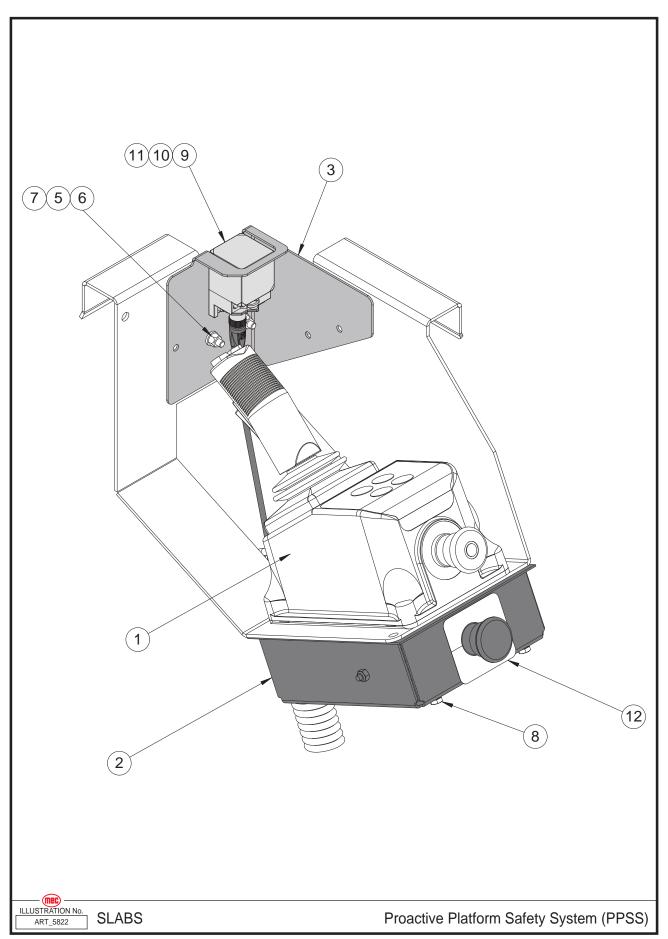
Leak Containment System



| Item | Part Number | Description | Qty. |
|------|-------------|--|------|
| 1 | 7545 | Clamp Hose #28 1 5/16-2 1/4 | 2 |
| 2 | 31415 | Upper Cylinder Guard | 1 |
| 3 | 31416 | Lower Cylinder Guard | 1 |
| 4 | 41979 | Oil Containment Tray | 1 |
| 5 | 42897 | Steer Cylinder Tray | 1 |
| 6 | 42932 | Absorbent Pad For Steer Cylinder | 1 |
| 7 | 42935 | Absorbent Pad For Tray | 1 |
| 8 | 44238 | Cylinder Guard Hose Wrap | 2 |
| 9 | 44266 | Absorbent Pad For LCS Cylinder Guards | 2 |
| 10 | 53370 | SHCS M6 X 10 Black Oxide Ultra Low Profile | 4 |
| 11 | 94866 | Decal, Leak Containment System, Long | 2 |
| 12 | 94867 | Decal, Leak Containment System, Short | 1 |
| 13 | 95048 | Magnet 30 LB (Max Pull Force) | 4 |
| 14 | 95082 | Disc Magnet 44 LB | 1 |
| 15 | A0005 | Loctite 565 | REF |

REF - Reference

Proactive Platform Safety System (PPSS)

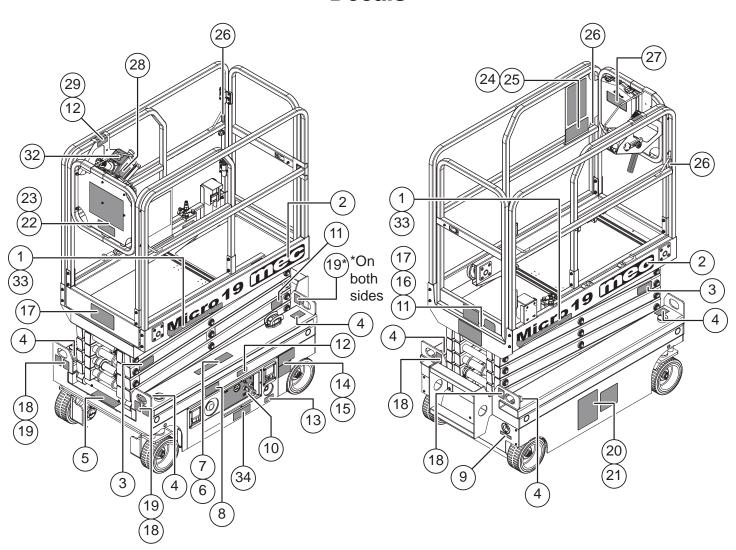


| Item | Part Number | Description | Qty. |
|------|-------------|------------------------------|------|
| 1 | 41137 | Upper Control Box | REF |
| 2 | 41974 | Slab PPSS Box Assembly | 1 |
| 3 | 41949 | PPSS Bracket | 1 |
| 4 | | | |
| 5 | 50000 | WSHR M06 ZP Standard Flat | 2 |
| 6 | 50028 | HHCS M06-1.00X020 08 ZP F | 2 |
| 7 | 50047 | NNYL M06X1.00 08 ZP Nylock | 2 |
| 8 | 50291 | HHCS M06-1.00X80 08 ZP P | 4 |
| 9 | 50524 | NNYL M05-0.80 Nylon Lock Nut | 2 |
| 10 | 53035 | BHCS M05-0.80 X 16, G08, ZP | 2 |
| 11 | 94143 | Sensor, Ultrasonic, UC4000 | 1 |
| 12 | 95681 | Decal, PPSS Override | 1 |

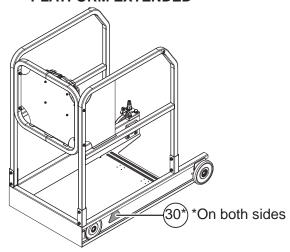
REF - Reference

Section 20 - Decals August 2024

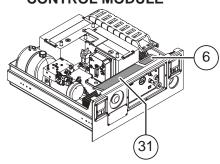
Decals



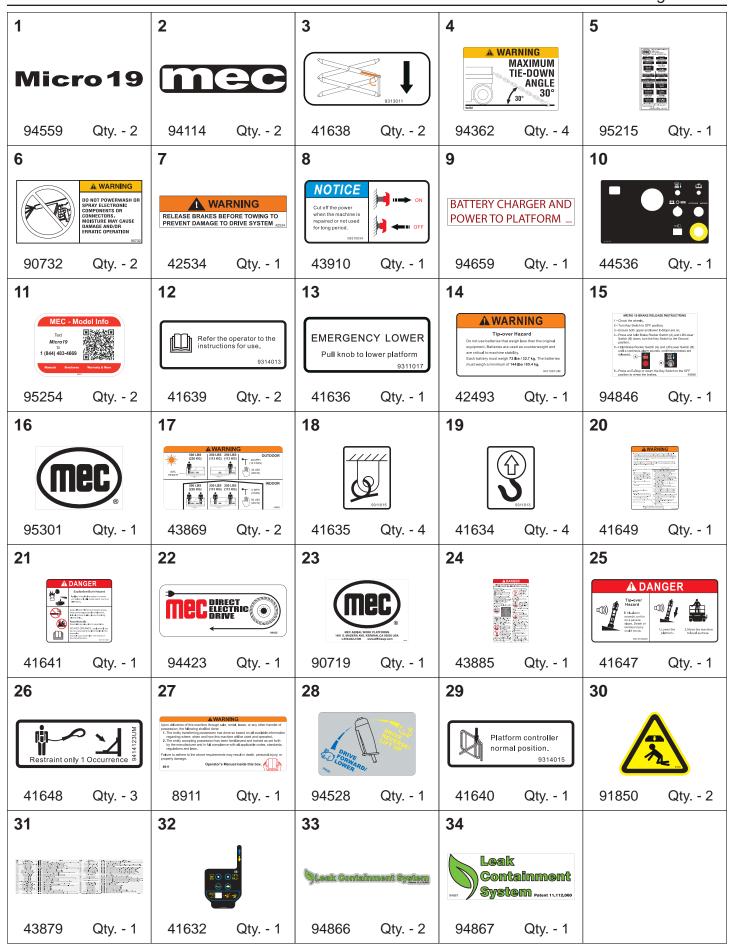
PLATFORM EXTENDED



CONTROL MODULE



Section 20 - Decals August 2024



Notes



Notes





MEC Parts Order Form

Phone: 559-842-1523 **Fax:** 559-400-6723

Email: Parts@mecawp.com

Please Fill Out Completely:

| Account: | Your Fax N | By: lo.: to: | |
|----------------|---|--|-------|
| | | Ship VIA**Fed Ex shipments require Fed Ex ad | |
| Part Number | Description | Quantity | Price |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| unless noted b | ed parts will be shipped when available via the selow: Ship complete order only - No Backorders Ship all available parts and contact custom Other (Please specify) | | |



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MEC Aerial Platform Sales Corp. warrants its equipment to the original purchaser against defects in material and/or workmanship under normal use and service for one (1) year from date of registered sale or date the unit left the factory if not registered. MEC Aerial Platform Sales Corp. further warrants the structural weldments of the main frame and scissor arms to be free from defects in material or workmanship for five (5) years from date of registered sale or date unit left the factory if not registered. Excluded from such warranty is the battery(s) which carries a ninety (90) day warranty from described purchase date. Warranty claims within such warranty period shall be limited to repair or replacement, MEC Aerial Platform Sales Corp's option, of the defective part in question and labor to perform the necessary repair or replacement based on MEC Aerial Platform Sales Corp's then current flat rate, provided the defective part in question is shipped prepaid to MEC Aerial Platform Sales Corp. and is found upon inspection by MEC Aerial Platform Sales Corp. to be defective in material and/or workmanship. MEC Aerial Platform Sales Corp. shall not be liable for any consequential, incidental or contingent damages whatsoever. Use of other than factory authorized parts; misuse, improper maintenance, or modification of the equipment voids this warranty. The foregoing warranty is exclusive and in lieu of all other warranties, express or implied. All such other warranties, including implied warranties of merchantability and of fitness for a particular purpose, are hereby excluded. No Dealer, Sales Representative, or other person purporting to act on behalf of MEC Aerial Platform Sales Corp. is authorized to alter the terms of this warranty, or in any manner assume on behalf of MEC Aerial Platform Sales Corp. any liability or obligation which exceeds MEC Aerial Platform Sales Corp's obligations under this warranty.



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