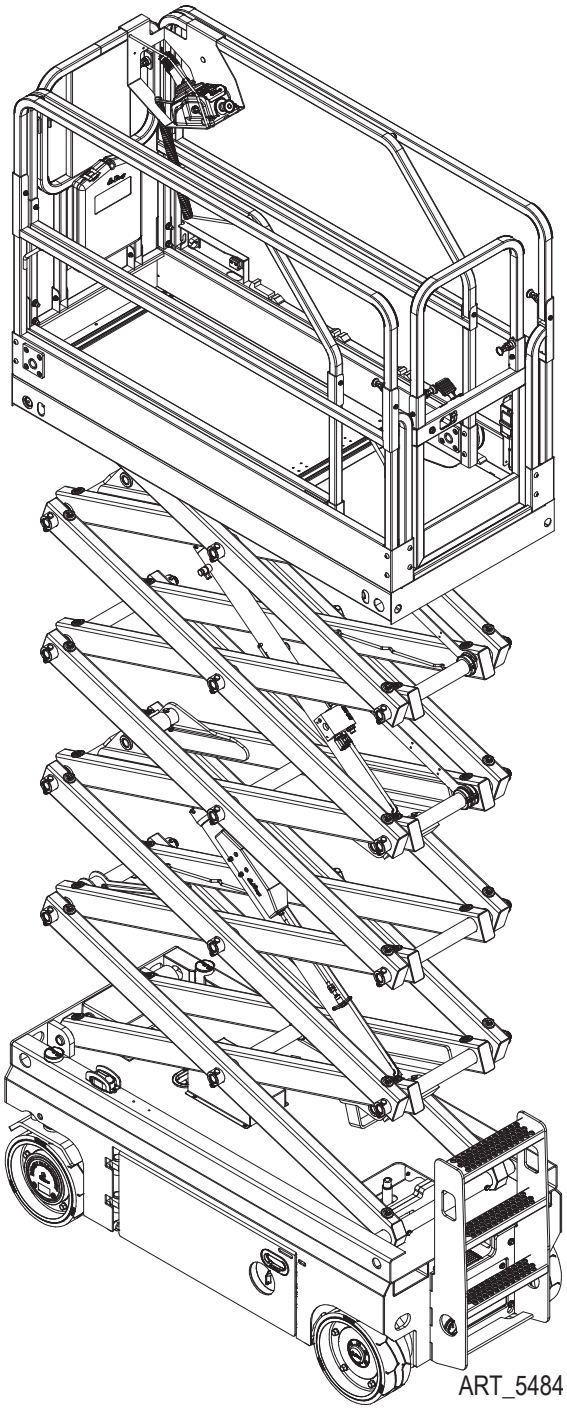
Service & Parts Manual

Micro26^{AC}



ART_5484

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

Serial Number Range 17900100 - Up

Part # 94225
March 2024

Revision History

Date	Reason for Update
March 2022	New Release
July 2023	Platform Capacity increased to 550lbs (250kg)
September 2023	Electrical Schematic updated
November 2023	New electrical harness with serial break #17900459
March 2024	Machine weight increased with serial break #17903700

MEC Aerial Work Platforms

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Table of Contents

Chapter 1 - Service 1

Service Introduction 1

Section 1 - MEC Operator Policy 2
MEC Operator Policy 2

Section 2 - Safety Symbols & General Safety Tips 3
Safety Symbols & General Safety Tips 3

Section 3 - Torque Specifications 4
Bolt Torque Specification - American Standard 4
Bolt Torque Specification - Metric Standard 5
Hydraulic Components Torque Table 6

Section 4 - Specifications 7
Specifications 7

Section 5 - Maintenance Lock 8
Maintenance Lock 8

Section 6 - Machine Systems 10
Machine Systems 10

Section 7 - Components Locations 11
Component Locations 11

Section 8 - Emergency Systems and Procedures 12
Emergency Systems and Procedures 12

Section 9 - Transporting and Lifting Instructions 13
Transporting and Lifting Instructions 13
Driving or Winching onto or off of a Transport Vehicle 14
Lift and Support the Machine 16

Section 10 - Calibration Instructions 17
AC Calibrations 17
ECU Setting and Calibrations 18

Section 11 - Maintenance 23
Daily Maintenance 23
Quarterly Maintenance 26
Semi-annual Maintenance 34
Annual Maintenance 36
Biennial Maintenance 38

Section 12 - Control Components 40
Control Component Locations 40

Section 13 - Battery Charger 41
Battery Charger 41

Section 14 - Fault Codes 42
Fault Codes 42

Section 15 - Schematics 49
Electrical Schematic 49
Hydraulic Schematic 50

Chapter 2 - Parts 52

Parts Introduction 52

Section 16 - Chassis. 53
Steer Linkage and Wheels Assembly 53
Pothole Protection Assembly 55
Battery Pack Module 57
Power Unit Module 59
Hydraulic Tank Assembly 61
Ground Control and Cover Assembly 63
Ground Control Assembly 65
Pump Motor Assembly. 67
Rear Wheel and Ladder 69
Charger Assembly 71
Chassis Accessory Installation 73

Section 17 - Scissor 75
Scissor Assembly 75

Section 18 - Platform 79
Main Platform Assembly 79
Platform Extension Assembly 81
Platform Locking Device Assembly 83
Platform Control Assembly 85
Platform Control Box Assembly 87

Section 19 - Hydraulic System 89
Lower Lift Cylinder Assembly 89
Upper Lift Cylinder Assembly 91
Function Manifold 93
Hydraulic Hoses and Fittings 95

Section 20 - Electrical System 97
Electrical Harness, To Serial #17900458 97
Electrical Harness, From Serial #17900459 99
Power to Platform 101

Section 21 - Options. 103
Leak Containment System. 103

Section 22 - Decals 105
Decals 105

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.

DANGER

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:

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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.

DANGER	**RED and the word DANGER – Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**
WARNING	**ORANGE and the word WARNING – Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**
CAUTION	**YELLOW with alert symbol and the word CAUTION – Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.**
CAUTION	**YELLOW without alert symbol and the word CAUTION – Indicates a potentially hazardous situation which, if not avoided, may result in property damage.**
NOTICE	**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	**5**				**8**			
Cap Screw Size (Inches)								
	Torque				**Torque**			
	Ft. Lbs		**Nm**		**Ft. Lbs**		**Nm**	
	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 (Millimeters)								
	Torque				**Torque**			
	Ft. Lbs		**Nm**		**Ft. Lbs**		**Nm**	
	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 Poppet		Fittings		Hoses	
	Ft. lbs	Nm	Ft. lbs	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

Maximum Working Height*	Indoor	31 ft	9.4 m
	Outdoor	24 ft	7.3 m
Maximum Platform Height	Indoor	25 ft	7.6 m
	Outdoor	18 ft	5.5 m
Stowed Height	Top Guardrail	90.3 in	2.3 m
	Rails Folded	78.75 in	2 m
	Platform Floor	47 in	1.2 m
Guardrail Height		43.5 in	1.1 m
Toeboard Height		6 in	0.15 m
Ground Clearance (Stowed)		3 in	7.62 cm
Length-Stowed	Overall	74 in	1.88 m
	Ladder Removed	68 in	1.73 m
Chassis Width		31.9 in	0.81 m
Platform Length	Extended	103.5 in	2.63 m
	Retracted	68 in	1.73 m
Deck Extension Length		35.5 in	0.9 m
Platform Width (Outside)		29.1 in	0.74 m
Wheelbase		55 in	1.4 m
Maximum Lift Capacity	To #17901279	500 lbs	227 kg
	From #17901280	550 lbs	250 kg
Sheet Material Rack Capacity†		110 lb†	50 kg†
Personnel Capacity	Indoor	2 Person	
	Outdoor	1 Person	
Manual Force	Indoor	90 lbs	400 N
	Outdoor	45 lbs	200 N
Deck Extension Capacity		250 lbs	113 kg
Raise Speed / Lower Speed		30 sec / 25 sec	
Drive Speed	Stowed	2.5 mph	4 km/h
	Elevated	0.5 mph	0.8 km/h
Gradeability		25% (14°)	
Maximum Wind Speed		28 mph	12.5 m/s
Turning Radius (Inside)		6 in	15 cm
Weight**	To #17903699	4,190 lbs	1,900 kg
	From #17903700	4,300 lbs	1,950 kg
Power Source		24 V DC, 240 Ah Battery Pack	
Controls		Proportional	
Tires		12 in × 5 in	30 cm × 12.5 cm
Maximum Wheel Load		1,410 lbs	640 kg
Chassis Inclination		1.5 Side / 3.0 Inline	

Meets or exceeds the requirements of ANSI A92.20-2018 and CSA B354.6.17.
*Working Height adds 6 feet (2 m) to platform height.
**Weight may vary with certain options or configurations.
†Sheet material weight is part of the total platform capacity. This may limit capacity to one occupant.

Maintenance Lock

DEATH OR SERIOUS INJURY HAZARD!

WARNING

NEVER perform work or inspection on the machine with the platform elevated without first blocking the scissor assembly with the Maintenance Lock.

DO NOT engage the Maintenance Lock unless the platform in empty of tools and material.

CAUTION

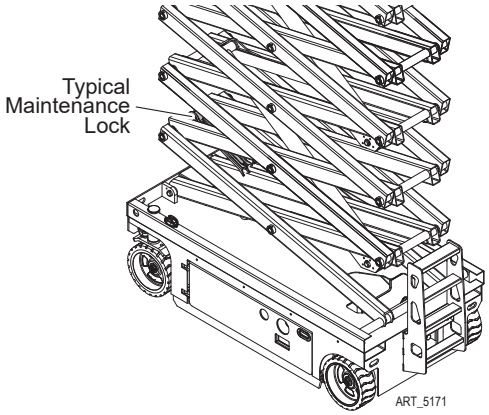
The Maintenance Lock must engage the scissor section above it.

DO NOT set it so that it hangs down. Damage may result.

Setting up the Maintenance Lock

The Maintenance Lock is located at the front of the scissor stack.

1. Raise the platform approximately 10 feet (3 meters) just high enough to rotate the Maintenance Lock into place.
2. Lift the Maintenance Lock, move it to the center of the scissor arm, then rotate it up to a vertical position.
3. Lower the platform until the Maintenance Lock rests securely on the link. Keep clear of the Maintenance Lock when lowering the platform.

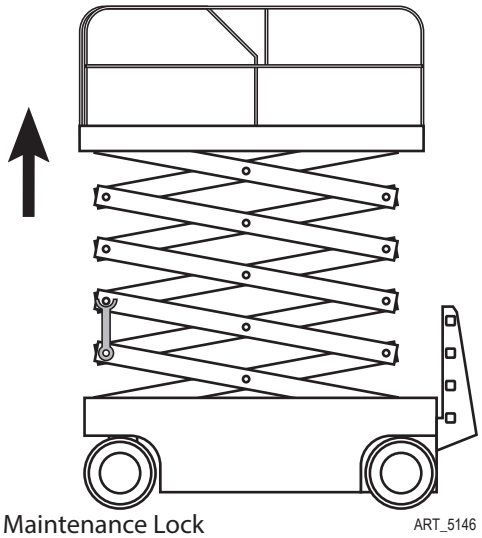


CAUTION

The Maintenance Lock must be stowed before lowering the platform.

Stowing The Maintenance Lock

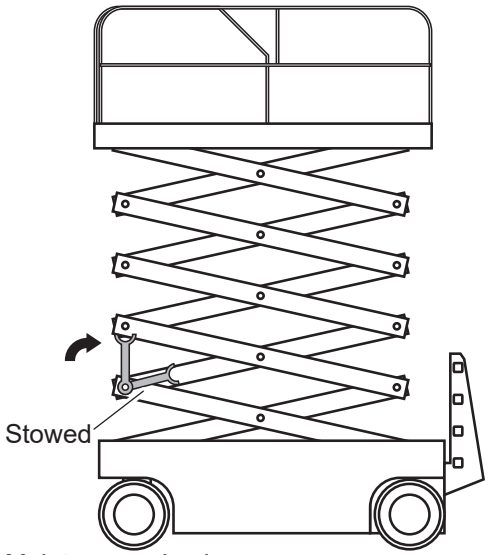
1. Raise the platform approximately 1 feet (0.3 meters) higher so that the Maintenance Lock clears the scissor link cross tubes.
2. Slide the front-end Maintenance Lock to the side and rotate it stowed position.
3. Lower the platform.



Keep clear of the scissor linkage when lowering.

If a Maintenance Lock requires adjustment to stow it correctly, stop the lowering function.

Adjust the maintenance lock while stationary, then return to the lowering function.



Maintenance Locks

Machine Systems

Hydraulic System

WARNING

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

CAUTION

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

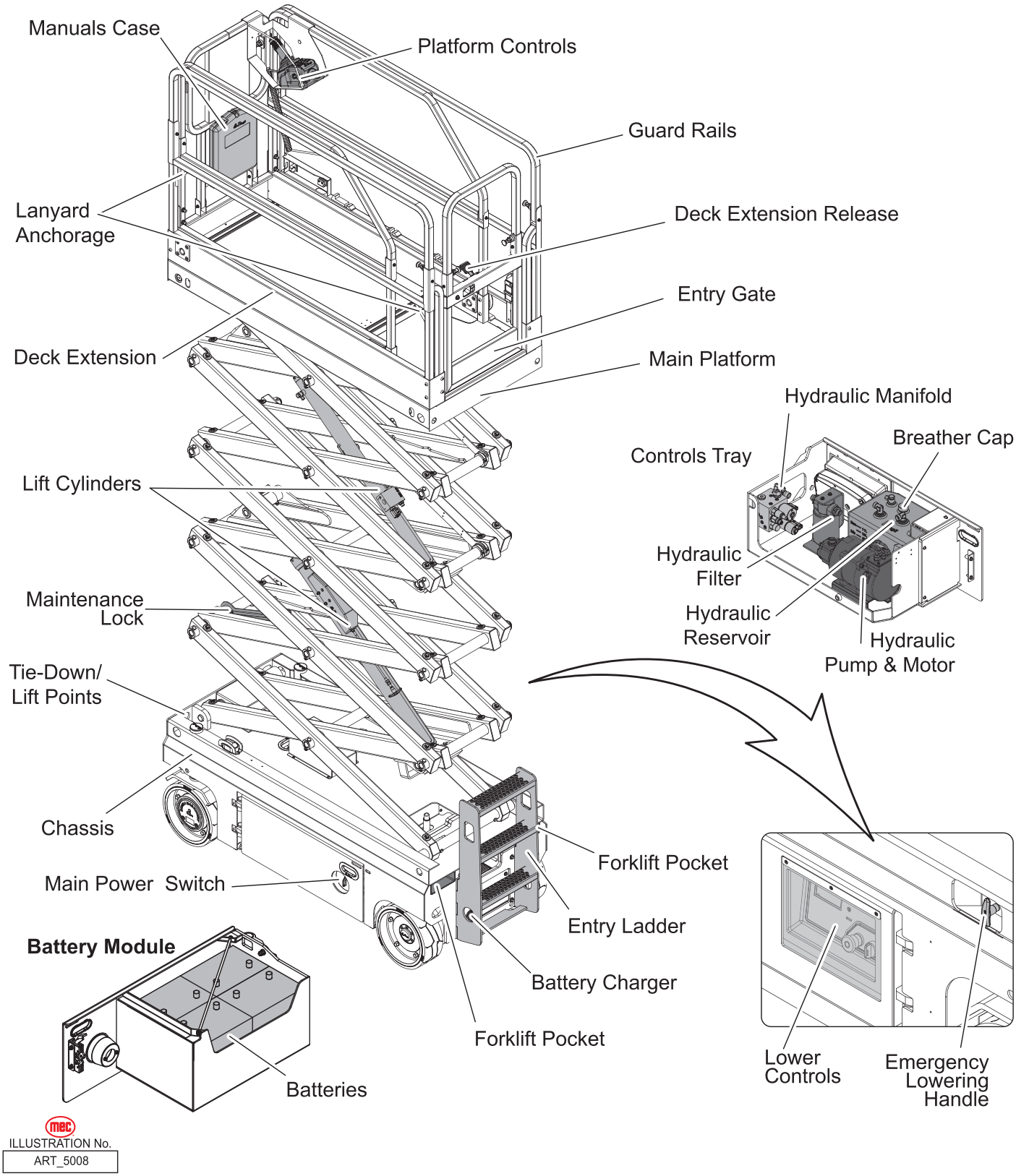
WARNING

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.

Component Locations



Emergency Systems and Procedures

WARNING

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.

Emergency Stop Switch

The machine is equipped with an Emergency Stop switch at the lower controls and the platform control box.

- Push in the Emergency Stop switch at any time to stop all machine functions.
- Turn switch clockwise or pull the switch out to reset it.
- Pressing either switch will stop all machine functions.
- Both switches must be reset (pulled out) or the machine will not operate.

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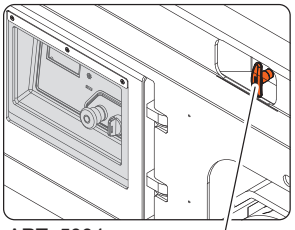
Emergency Lowering

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.



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Transporting and Lifting Instructions

Safety Information

This section is provided for reference and does not supersede any government or company policy regarding the loading, transport or lifting of MEC machinery.

WARNING

Truck drivers are responsible for loading and securing machines, and should be properly trained and authorized to operate MEC machinery. Drivers are also responsible for selecting the correct and appropriate trailer according to government regulations and company policy. Drivers must ensure that the vehicle and chains are strong enough to hold the weight of the machine (see the serial number plate for machine weight).

While loading and unloading, the transport vehicle must be parked on a level surface and secured to prevent rolling.

Free-wheel configuration for Winching or Towing

RUNAWAY HAZARD!

DANGER

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.

Before towing or winching the machine, it is necessary to release the brakes. The machine can be winched or towed short distances at speeds not to exceed 5 mph (8 km/h). Reset the brakes after towing or winching.

Brake Release Operation

1. Chock the wheels to prevent the machine from rolling.
2. Pull out the red Emergency Stop button on the lower control and platform control to the On position (pulled out).
3. Turn the Key Switch to the ground position while pressing and holding down the “Menu Enter Button” button on the ECU panel to enter the password input screen.
4. Press the “Menu Enter Button” 4 times to enter the Menu screen.
5. Press either the “Menu Up Button” or “Menu Down Button” button to switch to the Special mode (“4. Special Mode”)
6. Press the “Menu Enter Button” button to display the Special mode. Press either the “Menu Up Button” or “Menu Down Button” button to switch to the manual push menu (“1. Brake Release”)
7. Press “Menu Enter Button” button to display “long press to confirm release of brake”. Press and hold down the “Menu Enter Button” button to show “Brake Released!” The horn will sound signaling that all brakes have been released.
8. If you want to reset the brakes, turn the key switch to the ground position.

Driving or Winching onto or off of a Transport Vehicle

WARNING

Always attach the machine to a winch when loading or unloading from a truck or trailer by driving.

Read and understand all safety, control, and operating information found on the machine and in this manual before operating the machine.

Before loading or unloading the machine, check that:
- The deck extension, controls and component trays are secure.
- The platform is fully lowered.
- All loose items have been removed.

Before driving or winching the machine:
- Attach the machine to a winch.
- Remove all machine tie downs. Remove wheel chocks.

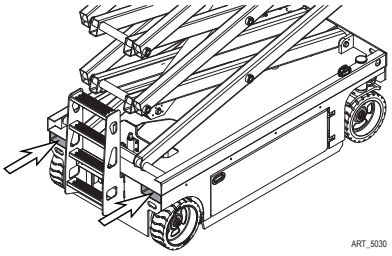
Driving
- Turn the Base Key Switch to the Platform position. Check that the Emergency Stop Switch is reset by turning it clockwise or pulling it out.
- Enter the platform and reset the Platform Emergency Stop Switch (pulled out).
- Test platform control functions.
- Select slow drive speed mode. Carefully drive the machine off the transport vehicle with the winch attached.

Note: The brakes are automatically released for driving and will automatically apply when the machine stops.

Winching
- Disengage brakes (see Free-wheel configuration for Winching or Towing on page 13).
- Carefully operate the winch to lower the machine down the ramp.
- Chock the wheels and engage the brakes.

Lifting The Machine With A Forklift

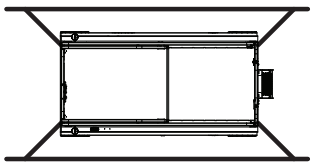
- Position the forklift forks in line with the forklift pockets.
- Drive forward to the full extent of the forks.
- Raise the machine 6in (15 centimeters) and then tilt the forks back slightly to keep the machine secure.
- Be sure the machine is level when lowering the forks.

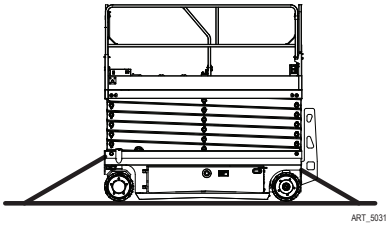


CAUTION

Lifting the machine from the side may result in component damage.

Securing to Truck or Trailer for Transport





- Turn the Key Switch to the Off position and remove the key before transport.
- Inspect the entire machine for loose or unsecured items.
- Chock the wheels
- Use the tie-down points on the chassis for anchoring down to the transport surface.
- Use chains or straps of ample load capacity.
- Use a minimum of four (4) chains or straps.
- Adjust the rigging to prevent damage to the chains and the machine.

Lifting Instructions

Only qualified riggers should rig and lift the machine.

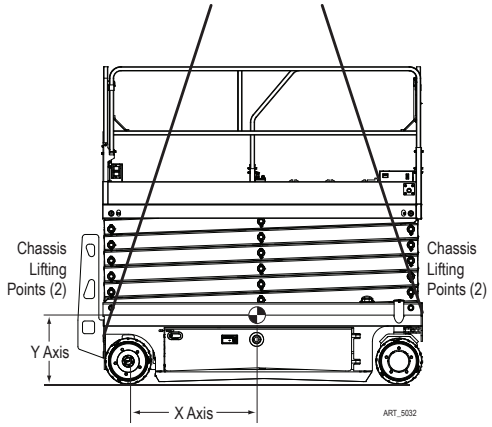
WARNING

Ensure that the crane, loading surfaces, spreader bars, cables, chains and straps are of sufficient capacity to withstand the machine weight. See the serial plate for the machine weight.

Fully lower the platform. Be sure the deck extension is retracted and the controls and component trays are closed and secure. Remove all loose items from the machine.

Determine the center of gravity of the machine. Attach rigging to the designated lift points only. Adjust the rigging to prevent damage to the machine and to keep the machine level.

X Axis	Y Axis
27.5 in (70 cm)	27.2 in (69 cm)



Lift and Support the Machine

DANGER

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 four (4) tons or more.
- Jack stands with a rating of four (4) tons or more.

To raise the machine

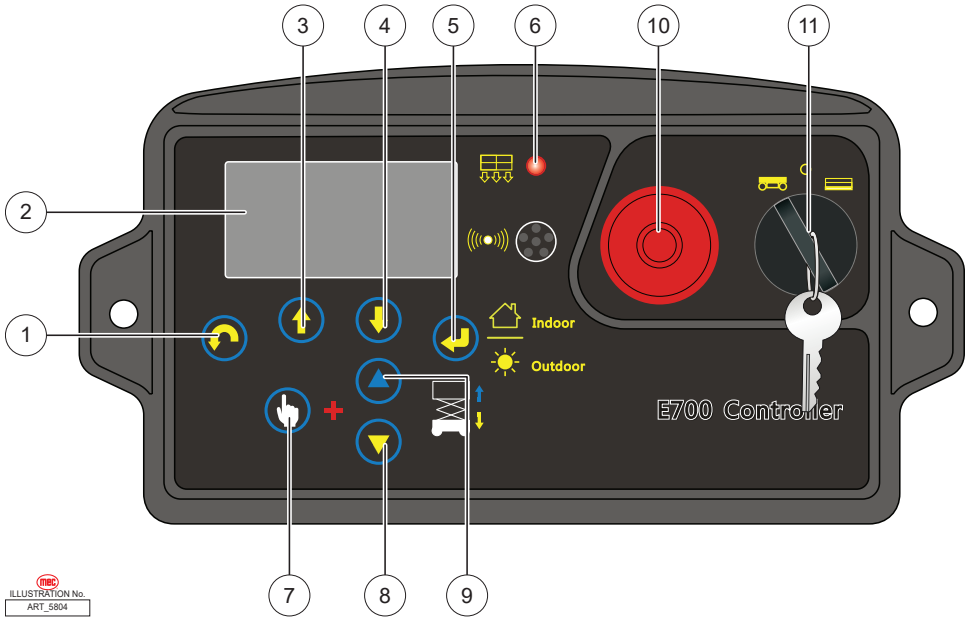
1. Move machine to a firm level surface capable of supporting the weight of the machine. (Refer to Machine Specifications on page 7 for machine weights for your model of scissor lift).
2. Chock tires on one end of machine and raise the other end of machine.
3. Position a jack at the end of the machine 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.

AC Calibrations

ECU Overview



Control		Description	
1	Menu Escape Button	Press this button to exit the Menu screen.	
2	LED Readout Screen	Diagnostic readout and battery charge indicator.	
3	Menu Up Button	Press this button to go up the Menu items.	
4	Menu Down Button	Press this button to go down the Menu items.	
5	Menu Enter Button	Press this button to enter the Menu screen	
6	Overload Indicator Light	Light on indicates when platform is overloaded.	
7	Function Enable Button	Press and hold this button along with either the Platform Down Button (#8) or the Platform Up Button (#9) to activate selected function.	
8	Platform Down Button	Press and hold the Function Enable Button (#7) and this button then the platform with lower.	
9	Platform Up Button	Press and hold the Function Enable Button (#7) and this button then the platform with rise.	
10	Emergency Stop Switch	Press the Emergency Stop switch at any time to stop all machine functions. Pull the button out to the On position to operate the machine.	
11	Key Switch	PLATFORM	Turn the key switch to the platform position and the platform controls will be selected.
		OFF	Turn the key switch to the Off position and the machine will be off.
		BASE	Turn the key switch to the base position and the ground controls will be selected.

Selecting Indoor/Outdoor Mode:

To select the Indoor/Outdoor Mode, press and hold the Menu Enter Button (#5) for a few seconds to switch to Indoor or Outdoor.

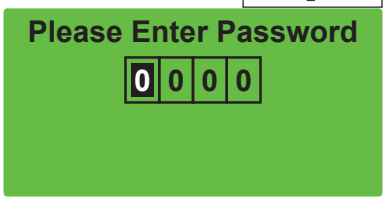
- **INDOOR**
  - Select to allow unrestricted height when not exposed to wind.
- **OUTDOOR**
  - Select to limit the maximum height when exposed to wind.

ECU Setting and Calibrations

ECU Setting and Calibrations

To enter the ECU setting interface, pull out the emergency stop buttons on lower and upper controls. Press & hold the “Enter” button on lower controls and turn the key switch to the ground controls. The Password screen will appear

ILLUSTRATION No.
ART_6019



Enter password “0000” by repeatedly pressing the Enter button.

ECU Setting Table

Main Menu	Items	Value
1. Set Speed	1. Max Fast Speed (Drive)	Current value is: 100 (100 to 0807AC, same below) Edit value is: ___
	2. Max Raised Speed (Drive)	Current value is: 13 (13) Edit value is: ___
	3. Max Liftup Speed	Current value is: 75 (50) Edit value is: ___
	4. Max Slow Speed	Current value is: 50 (50) Edit value is: ___
	5. Steer Boost (Driving state)	Current value is: 30 (30) Edit value is: ___
	6. Neutral Steer (Turn-in-place)	Current value is: 30 (30) Edit value is: ___
	7. Deceleration	Current value is: 10 (5) Edit value is: ___
	8. Raised Steer Boost	Current value is: 20 (20) Edit value is: ___
2. Set Option	1. Machine Type	Hydraulic Drive
		Electrical Drive
		Small Electrical Drive Slabs
	2. Pedal Switch	Disable/Enable
	3. Press Sensor Mode	Voltage Output
		Current Output
	4. Pothole Guard	Disable/Enable
	5. Descent Delay	Disable/Enable
	6. Motion Alarm	Disable/Enable
	7. Load Sensing	Disable/Enable

Main Menu	Items	Value
2. Set Option	8. Joystick Direction	Push to Up
		Pull to Up
	9. Enable Indoor/Outdoor Mode	Indoor Mode
		Outdoor Mode
	10. Lowering Cylinder	Dual Cylinder
		Single Cylinder
	11. Test Mode	**USE WITH CAUTION!**
	12. Drain Alarm Time (After 15 minutes of no operation, an alarm will sound.)	Current value is: 015 Edit value is: ___
	13. Drain Shut Time (After 30 minutes of no operation, the hibernation state is entered.)	Current value is: 030 Edit value is: ___
	14. Battery Low Level	Current value is: 016 Edit value is: ___
	15. Enable Priority	Disable/Enable
	16. Enable PCU Collision	Disable/Enable
	17. X Axis Limit	Do Not Change
	18. Y Axis Limit	Do Not Change
3. Calibration	1. No load Sensing	
	2. Full Load Sensing	
	3. Tilt Sensor	
	4. Angle Sensor	
	5. OL Descent High	
	6. Up Limit	
	7. Down Limit	
	8. Outdoor Limit Height	
4. Special Mode	1. Brake Release	This feature is only available for AC models.
5. Fault History	NO. 1 ErrID: xxx Time: *** Info: ***	
	NO. 2 ErrID: xxx Time: *** Info: ***	
	...	
6.Other	1. Date & Time	
	2. Language	1. English
		2. Chinese
		3. Japanese
		4. French
	3. Revision	ECU: A5 SW-E700-DL-1_M HMI : A5 SW-E700-DL-1_O
	4. Hour Meter Reset	
	5. Fault History Reset	
	6. PC Link	

Calibration

The chart below shows what calibration steps that need to be redone after replacing parts!

	Replaced Part					
Calibration	**ECU**	**PCU**	**ZAPI (Pump)**	**ZAPI (Drive)**	**Angle Sensor**	**Pressure Sensor**
Model Selection	√					
Load Sensing	√					√
Tilt Sensor	√					
Angle Sensor Reset	√				√	
Up Limit	√					

Requirements after replacing ECU:

- After the new ECU is installed, you need to select the Model & set the number of cylinders first. (See 2.1. “Machine Type” & 2.10. “Lowering Cylinder” under “Set Options”)
- Then perform Calibrations in the following order:
  - 3. Tilt Sensor
  - 4. Angle Sensor
  - 5. OL Descent High
  - 7. Down Limit
  - 6. Up Limit
  - 1. No load Sensing
  - 2. Full Load Sensing.

This procedure follows ECU replacement; individual calibrations can be performed as needed.

Load Sensing Calibration

No-Load Calibration

WARNING

After entering the Load Calibration sequence, the platform will automatically raise and lower 3- times for each segment. Make sure that the machine is positioned in an area where it can be elevated to full height before initiating the calibration sequence.

If at any time the automatic elevation must be stopped press the Emergency Stop Switch.

1. With no load on the platform, have the platform stowed and on flat level ground.
2. Enter the “ECU Settings”. (See page 18)
3. Select “3. Calibration”
4. Go to “1. No Load Sensing.” Press and hold the “Enter“ button for 5 seconds. **SEE WARNING!**
5. The machine starts to calibrate automatically. The Overload Indicator light turns on then goes out indicating that the calibration is complete.

Full-Load Calibration

WARNING

After entering the Load Calibration sequence, the platform will automatically raise and lower 3- times for each segment. Make sure that the machine is positioned in an area where it can be elevated to full height before initiating the calibration sequence.

If at any time the automatic elevation must be stopped, press the Emergency Stop Switch.

Note: Load used for calibration needs to be slightly higher than rated load. The suggested weight for when calibrating a full load is 530 lbs (240 kg).

1. With the machine in the stowed state on a flat level surface, have the maximum rated load on the platform.
2. Enter the “ECU Settings”. (See page 18)
3. Select “3. Calibration”
4. Select “2. Full Load Sensing.” Press and hold the “Enter“ button for 5 seconds. **SEE WARNING ABOVE!**
5. The machine starts to calibrate automatically. The Overload indicator light turns on and then goes out indicating that the calibration is complete.

Tilt Sensing

1. Park the platform on a flat level surface.
2. Enter the “ECU Settings”. (See page 18)
3. Select “3. Calibration”
4. Select “3. Tilt Sensor.” Press and hold the “Enter“ button for 5 seconds.
5. The machine starts to calibrate automatically. The Overload indicator light turns on and then goes out indicating that the calibration is complete.

Angle Sensing

1. Park the machine in the stowed state on a flat level surface
2. Enter the “ECU Settings”. (See page 18)
3. Select “3. Calibration”
4. Select “4. Angle Sensor.” Press and hold the “Enter“ button for 5 seconds.
5. The machine starts to calibrate automatically. The Overload indicator light turns on and then goes out indicating that the calibration is complete

Note: After replacing the angle sensor, only the angle sensor calibration is required, no need to re-calibrate other height values.

Height Calibration

1. Have the machine in the stowed state on a flat surface
2. Enter the “ECU Settings”. (See page 18)
3. Select “3. Calibration”
4. Select specific height calibration or perform all. See following instructions.

OL Descent High

Height at which the machine can be lowered when overloaded. Normally, the platform cannot be lowered by controls when overloaded. The emergency lowering cable must be used.

1. Select the “5. OL Descent High.”
2. Keep the machine in the stowed state.
3. Press the “Enter“ button to save the current valve.

Up Limit

After the platform rises to the top, it needs to be lowered slightly to reduce the wear on the lift cylinder.

1. Select the “6. Up Limit.”
2. Lift the platform to the highest height.
3. Press the “Enter“ button to save the current valve.

Down Limit

When the voltage signal of the “Lift down limit switch” changes from 0V to 24V, the height at this time is the “Decent Delay Height”. Therefore, it must be ensured that the “Lift down limit switch” is triggered at the correct height.

1. Select the “7. Down Limit.”
2. Keep the machine in the stowed state.
3. Press the “Enter“ button to save the current valve.

Outdoor Limit Height

This is set to 10% of max height.

1. Select the “8. Outdoor Limit Height.”
2. Lift the platform the maximum outdoor height. then lower 10%.
3. Press the “Enter“ button to save the current valve.

Daily Maintenance

The following maintenance should be done every daily or 8 hours of operation whichever comes first.

1) Inspect the Manuals and Decals

Maintaining the operator's manual in good condition is essential to safe machine operation. Manuals are included with each machine and should be stored in the container provided in the platform. An illegible or missing manual will not provide safety and operational information necessary for a safe operating condition.

In addition, maintaining all of the safety and instructional decals in good condition is mandatory for safe machine operation. Decals alert operators and personnel to the many possible hazards associated with using this machine. They also provide users with operation and maintenance information. An illegible decal will fail to alert personnel of a procedure or hazard and could result in unsafe operating conditions.

1. Check to make sure that the operator's manual is present and complete in the storage container on the platform.
2. Examine the pages of manual to be sure that they are legible and in good condition.
   - **Result:** The operator's manual is appropriate for the machine and the manual are legible and in good condition.
   - **Result:** The operator's manual is not appropriate for the machine or the manual is not in good condition or is illegible. Remove the machine from service until the manual is replaced.
3. Open the operator's manual to the decals inspection section. Carefully and thoroughly inspect all decals on the machine for legibility and damage.
   - **Result:** The machine is equipped with all required decals, and all decals are legible and in good condition.
   - **Result:** The machine is not equipped with all required decals, or one or more decals are illegible or in poor condition. Remove the machine from service until the decals are replaced.
4. Always return the manual to the storage container after use.

2) Perform Pre-operation Inspection

Completing a Pre-operation Inspection is essential to safe machine operation. The Pre-operation Inspection is a visual inspection performed by the operator prior to each work shift. The inspection is designed to discover if anything is apparently wrong with a machine before the operator performs the function tests. The Pre-operation Inspection also serves to determine if routine maintenance procedures are required.

Complete information to perform this procedure is available in the appropriate operator's manual. Refer to the operator's manual on your machine.

3) Check the Batteries

- New parts maybe be required to perform this procedure.

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

Note: This check is not required for machines with lithium batteries, sealed batteries, or Maintenance- free batteries.

WARNING **Electrocution hazard. Contact with hot or live circuits may result in death or serious injury. Remove all rings, watches and other jewelry.**

WARNING **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. Be sure that the battery cable connections are tight and free of corrosion.
3. Be sure that the battery hold-down bars are secure.
4. Remove the battery vent caps.
5. Check the battery acid level. If needed, replenish with distilled water to the bottom of the battery fill tube. Do not overfill.
6. Install the vent caps.

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

4) Check the Hydraulic Oil Level

- New parts maybe be required to perform this procedure.

Maintaining the hydraulic oil at the proper level is essential to machine operation. Improper hydraulic oil levels can damage hydraulic components. Daily checks allow the inspector to identify changes in oil level that might indicate the presence of hydraulic system problems.

NOTICE **Perform this procedure with the platform in the stowed position.**

1. Visually inspect the sight of hydraulic oil level from the side of the hydraulic oil tank.
   - **Result:** The hydraulic oil level should be at the 12 scale line mark of the fuel tank. Add oil if necessary. Do not overfill.

Customers shall choose the appropriate hydraulic oil according to the ambient temperature used.
- Original Hydraulic oil specifications: L-HV46

5) Perform Function Tests

Completing the function tests is essential to safe machine operation. Function tests are designed to discover any malfunctions before the machine is put into service. A malfunctioning machine must never be used. If malfunctions are discovered, the machine must be tagged and removed from service.

Complete information to perform this procedure is available in the appropriate operator's manual. Refer to the operator's manual on your machine.

6) Perform 30 Day Service

- Tools maybe be required to perform this procedure.
- New parts maybe be required to perform this procedure.

The 30 day maintenance procedure is a one time procedure to be performed after the first 30 days or 40 hours of usage. After this interval, refer to the maintenance tables for continued scheduled maintenance.

Perform the following Quarterly Maintenance:

- Inspect the Tires, Wheels and Castle Nut Torque (See page 27)

Perform the following Annual Maintenance:

- Replace the Hydraulic Tank Return Filter Element (See page 36)

Quarterly Maintenance

The following maintenance should be done every quarter or 250 hours of operation, whichever comes first.

1) Inspect the Batteries

- Tools maybe be required to perform this procedure.
- New parts maybe be required to perform this procedure.

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

WARNING **Electrocution / burn hazard. Contact with electrically charged circuits could result in death or serious injury. Remove all rings, watches and other jewelry.**

WARNING **Bodily injury hazard. Batteries contain acid. Avoid spilling or contacting battery acid. Neutralize battery acid spills with baking soda and water.**

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1. Put on protective clothing and eye wear.
2. Release the battery pack latch and rotate the battery pack out and away 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.
8. 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.

The following must be measured and recorded once the battery has been fully charged, after a waiting time of at least 12 hours:

- Total voltage
- Individual voltage of the block battery

If significant changes to previous measurements or differences between the block batteries are identified, then customer service must be contacted for further testing or repairs.

2) Inspect the Electrical Wiring

- Tools maybe be required to perform this procedure.

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.

WARNING **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 underside of the chassis for damaged or missing ground strap(s).
2. Inspect the following areas for burnt, chafed, corroded and loose wires:
   - Ground control panel
   - Hydraulic power unit module tray
   - Battery pack module tray
   - Platform controls
3. Turn the key switch to platform control. Pull out the platform and ground red Emergency Stop button to the on position.
4. Raise the platform until the distance of the two sets of scissor at least 19.7in (0.5 meters).
5. Lift the safety arm, move it to the center of the scissor arm and rotate up to a vertical position.
6. Lower the platform until the safety arm rests securely on the link. Keep clear of the safety arm when lowering the platform.

WARNING **Crushing hazard. Keep hands clear of the safety arm when lowering the platform.**

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

3) Inspect the Tires and Wheels (including castle nut torque)

- Tools maybe be required to perform this procedure.
- New parts maybe be required to perform this procedure.

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. Check each bolt for proper torque.

Bolt Torque, Dry	92.2 ft-lbs (125 Nm)
Bolt Torque, Lubricated	84.8 ft-lbs (115 Nm)

4) Test the Emergency Stop

A properly functioning Emergency Stop 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 the ground controls will override the platform controls, except the platform red Emergency Stop button.

1. Turn the key switch to ground control. Pull out the platform and ground red Emergency Stop button to the on position.
2. Push in the red Emergency Stop button at the ground controls to the off position.
   - **Result:** No machine functions should operate.
3. Turn the key switch to platform control. Pull out the platform and ground red Emergency Stop button to the on position.
4. Push in the red Emergency Stop button at the platform controls to the off position.
   - **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.

5) Test the 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 out the platform and ground red Emergency Stop button to the on position.
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.
   - **Result:** No function should operate.

6) Test the Automotive-style 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. Pull out the platform and ground red Emergency Stop button to the on position.
2. Push down the horn button at the platform controls.
   - **Result:** The horn should sound.

7) Test the Drive Brakes

- Tools maybe be required to perform this procedure.
- New parts maybe be required to perform this procedure.

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. Pull out the platform and ground red Emergency Stop button to the on position.
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 test line.
6. 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.
7. Measure the distance between the test line and your machine reference point.
   - **Result:** The machine stops within the specified braking distance. No action required.
   - **Result:** The machine does not stop within the specified braking distance

Braking Distance, Maximum	
High Range On Paved Surface	24 in±11.8 in 61 cm±30 cm

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

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

8) Test the Drive Speed - Stowed Position

- Tools maybe be required to perform this procedure.

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 ft (12.2 meters) apart.
2. Turn the key switch to platform control. Pull out the platform and ground red Emergency Stop

button to the on position.
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. Refer to specifications.

9) Test the Drive Speed - Raised Position

- Tools maybe be required to perform this procedure.

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 ft (12.2 meters) apart.
2. Turn the key switch to platform control. Pull out the platform and ground red Emergency Stop button to the on position.
3. Press the lift function select button.
4. Press and hold the function enable switch on the joystick.
5. Raise the platform approximately 78.7in (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. Refer to specifications.

10) Test the Slow Drive Speed

- Tools maybe be required to perform this procedure.

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 ft (12.2 meters) apart.
2. Turn the key switch to platform control. Pull out the platform and ground red Emergency Stop button to the on position.
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 is less than 25 sec.

11) Perform Hydraulic Oil Analysis

- Tools maybe be required to perform this procedure.
- New parts maybe be required to perform this procedure.
- Dealer service may be required to perform this procedure.

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.

If the hydraulic oil is not replaced at the two year inspection, test the oil quarterly. Replace the oil when it fails the test.

See page 38 for Test or Replace the Hydraulic Oil.

12) Inspect the Hydraulic Tank Cap Venting System

- Tools maybe be required to perform this procedure.

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.
2. 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.

13) Check the Module Tray Latch Components

- Tools maybe be required to perform this procedure.
- New parts maybe be required to perform this procedure.

Maintaining the module tray latch components in good condition is essential to good performance and service life. Failure to detect worn out latch components may result in module trays opening

unexpectedly, creating an unsafe operating condition.

1. Inspect each module tray rotary latch and related components for wear. Tighten any loose fasteners.
2. Lubricate each module tray rotary latch. Using light oil, apply a few drops to each of the springs and to the sides of the rotary latch mechanism.

14) Test the Down Limit Switch, the Pothole Limit Switches and the Level Sensor

- Tools maybe be required to perform this procedure.

Maintaining the limit switches is essential to safe operation and good machine performance. Operating the machine with a faulty limit switch could result in reduced machine performance and a potentially unsafe operating condition.

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

Level Sensor

1. Remove the platform controls from the platform.
2. Turn the key switch to platform control. Pull out the platform and ground red Emergency Stop button to the on position.
3. Press the drive function select button
4. Move the machine onto a grade which exceeds the rating of the level sensor. Refer to the serial label on the machine.
5. Press the lift function select button. Standing on the up-hill side of the machine, attempt to raise the platform to approximately 94.5in (2.4 meters).
   - **Result:** The LED readout screen shows code LL, an alarm sounds, and the machine stops lifting after the pothole guards are deployed. The machine is functioning properly.
   - **Result:** The LED readout screen does not show code LL, the alarm does not sound and the machine will continue to lift the platform after the pothole guards are deployed. Adjust or replace the level sensor.
6. Press the drive function select button. Standing on the up-hill side of the machine, attempt to steer and drive the machine.
   - **Result:** The LED readout screen shows code LL, an alarm sounds, and the machine will not steer or drive. The machine is functioning properly.
   - **Result:** The LED readout screen does not show code LL, the alarm does not sound and the steer and drive functions operate. Adjust or replace the level sensor.

Pothole Limit Switches

1. Lower the platform to the stowed position. Move the machine onto a firm, level surface.
2. Place a wooden block approximately 5in (5 centimeters) tall under the right pothole guard.
3. Press the lift function select button. Attempt to raise the platform approximately 94.5in (2.4 meters).
   - **Result:** The pothole guard contacts the block and does not fully deploy, the LED readout screen shows code 18, an alarm sounds and the platform will lift to 94.5in (2.4 meters) or beyond. The machine is functioning properly.
   - **Result:** The pothole guard contacts the block and does not fully deploy, the LED readout screen does not show code 18, the alarm does not sound and the machine will continue to lift

the platform after the pothole guards are deployed. Adjust or replace the pothole limit switch.

4. Press the drive function select button. Attempt to steer or drive the machine.
   - **Result:** The LED readout screen shows code 18, an alarm sounds, and the machine will not steer or drive. The machine is functioning properly.
   - **Result:** The LED readout screen does not show code 18, the alarm does not sound and the steer and drive functions operate. Adjust or replace the down limit switch.
5. Lower the platform to the stowed position and remove the block under the right pothole guard.
6. Repeat this procedure beginning with step 34 for the left pothole guard.
7. Lower the platform to the stowed position, remove the block under the left pothole guard.
8. Turn off the machine.

Semi-annual Maintenance

The following maintenance should be done every 6 months or 500 hours of operation, whichever comes first.

1) Test the Platform Overload System

- Tools maybe be required to perform this procedure.
- Dealer service may be required to perform this procedure.

Testing the platform overload system regularly is essential to safe machine operation. Continued use of an improperly operating platform overload system could result in the system not sensing an overloaded platform condition. Machine stability could be compromised resulting in the machine tipping over.

The platform overload system is designed to prevent machine operation in the event the platform is overloaded. Models equipped with the platform overload option are provided with two additional machine control components: the overload pressure sensor and the platform height sensor.

The overload pressure transducer, located at the valve of the lift cylinder, is used to determine the pressure inside the lift cylinder.

The platform height sensor, located at the steer end of the chassis, battery side, is used to determine the height of the platform.

The overload pressure transducer and the platform height sensor provide the GCON with necessary information to determine the load in the platform.

Note: The overload system will not measure loads at or below the height of the Down Limit.

Note: Perform this test from the ground with the platform controller. Do not stand in the platform.

WARNING **Perform this procedure with the machine on a firm, level surface.**

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1. Turn the key switch to platform controls. Pull out the platform and ground red Emergency Stop button to the on position.
2. Determine the maximum platform capacity.
3. Using a suitable lifting device, place an appropriate test weight equal to the maximum platform capacity in the center of the platform floor. Raise the platform.
   - **Result:** The overload alarm not sounds during the whole trip, indicating a normal condition.
   - **Result:** The overload alarm sounds during the whole trip. Calibrate the platform overload system.
4. The platform should lower to the stowed position
5. Add an additional weight to the platform not to exceed 20% of the maximum rated load. Raise the platform.
   - **Result:** The overload alarm at the platform controls sound, indicating a normal condition.
   - **Result:** The overload alarm at the platform controls does not sound. Calibrate the platform

overload system.

6. Test all machine functions from the platform controls.
   - **Result:** All platform control functions should not operate.
7. Turn the key switch to ground control.
8. Test all machine functions from the ground controls
   - **Result:** All ground control functions should not operate.
9. Lift the test weight off the platform floor using a suitable lifting device.
10. The platform should lower to the stowed position.

2) Replace the Hydraulic Tank Breather Cap

- New parts maybe be required to perform this procedure.

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.

Annual Maintenance

The following maintenance should be done every year or 1,000 hours of operation, whichever comes first.

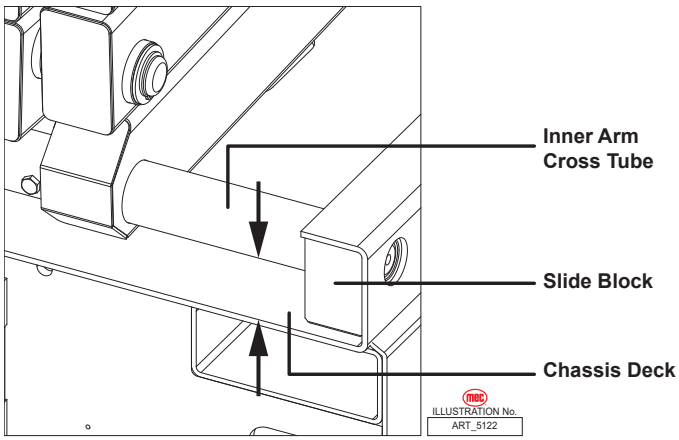
1) Check the Scissor Arm Wear Pads

- Tools maybe be required to perform this procedure.
- New parts maybe be required to perform this procedure.

Maintaining the condition of the scissor arm wear pads 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 arm cross tube and the chassis deck at the ground controls side of the non-steer end of the machine.
   - **Result:** The measurement is 0.9in (23 millimeters) or more. Proceed to step 2.
   - **Result:** The measurement is less than 0.9in (23 millimeters). Replace both wear pads.
2. Measure the distance between the number one arm cross tube and the chassis deck at the battery pack side of the non-steer end of the machine.
   - **Result:** The measurement is 0.9in (23 millimeters) or more. Proceed to step 3.
   - **Result:** The measurement is less than 0.9in (23 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.



2) Replace the Hydraulic Tank Return Filter Element

- Tools maybe be required to perform this procedure.
- New parts maybe be required to perform this procedure.

Replacement of the hydraulic tank return filter is essential for good machine performance and service life. A dirty or clogged filter may cause the machine to perform poorly and continued use may cause component damage. Extremely dirty conditions may require that the filter be replaced more often.

CAUTION **Beware of hot oil. Contact with hot oil may cause severe burns.**

WARNING **The hydraulic tank return filter is mounted on the bracket between the function manifold and the hydraulic power unit.**

1. Clean the area around the oil filter. Remove the filter with an oil filter wrench.
2. Apply a thin layer of oil to the new oil filter gasket.
3. Install the new filter and tighten it securely by hand.
4. Use a permanent ink marker to write the date and number of hours from the hour meter onto the filter.
5. Turn the key switch to ground control. Pull out the platform and ground red Emergency Stop button to the on position.
6. Activate and hold the platform up toggle switch.
7. Inspect the filter and related components to be sure that there are no leaks.
8. Clean up any oil that may have spilled.

Biennial Maintenance

The following maintenance should be done every two years or 2,000 hours of operation, whichever comes first.

1) Test or Replace the Hydraulic Oil

- Tools maybe be required to perform this procedure.
- New parts maybe be required to perform this procedure.
- Dealer service may be required to perform this procedure.

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.

If the hydraulic oil is not replaced at the two year 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. Disconnect the battery pack from the machine.

WARNING **Electrocution / burn hazard: Contact with electrically charged circuits could result in death or serious injury. Remove all rings, watches and other jewelry.**

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2. Open the power unit module tray.
3. Remove the oil drain plug at bottom.
4. Drain all of the oil into a suitable container.
5. Tag and disconnect the hydraulic tank return line from the hydraulic filter head and remove the line from the tank. Cap the fitting on the filter head.
6. Tag and disconnect the hydraulic pump inlet line and remove the line from the tank. Cap the fitting on the pump.
7. Remove the hydraulic tank retaining fasteners and remove the hydraulic tank from the machine.

WARNING **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.**

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8. Clean up any oil that may have spilled. Properly discard the used oil.
9. Clean the inside of the hydraulic tank using a mild solvent. Allow the tank to dry completely.

10. Install a new filter onto the tank.
11. Tighten the drain plug and torque to specification.

Torque Specifications	
Hydraulic Tank Drain Plug, Dry	10 in-lbs (4.5 Nm)
Hydraulic Tank Drain Plug, Lubricated	30 in-lbs (3.4 Nm)

12. Install the hydraulic tank and install and tighten the hydraulic tank retaining fasteners. Torque to specification.

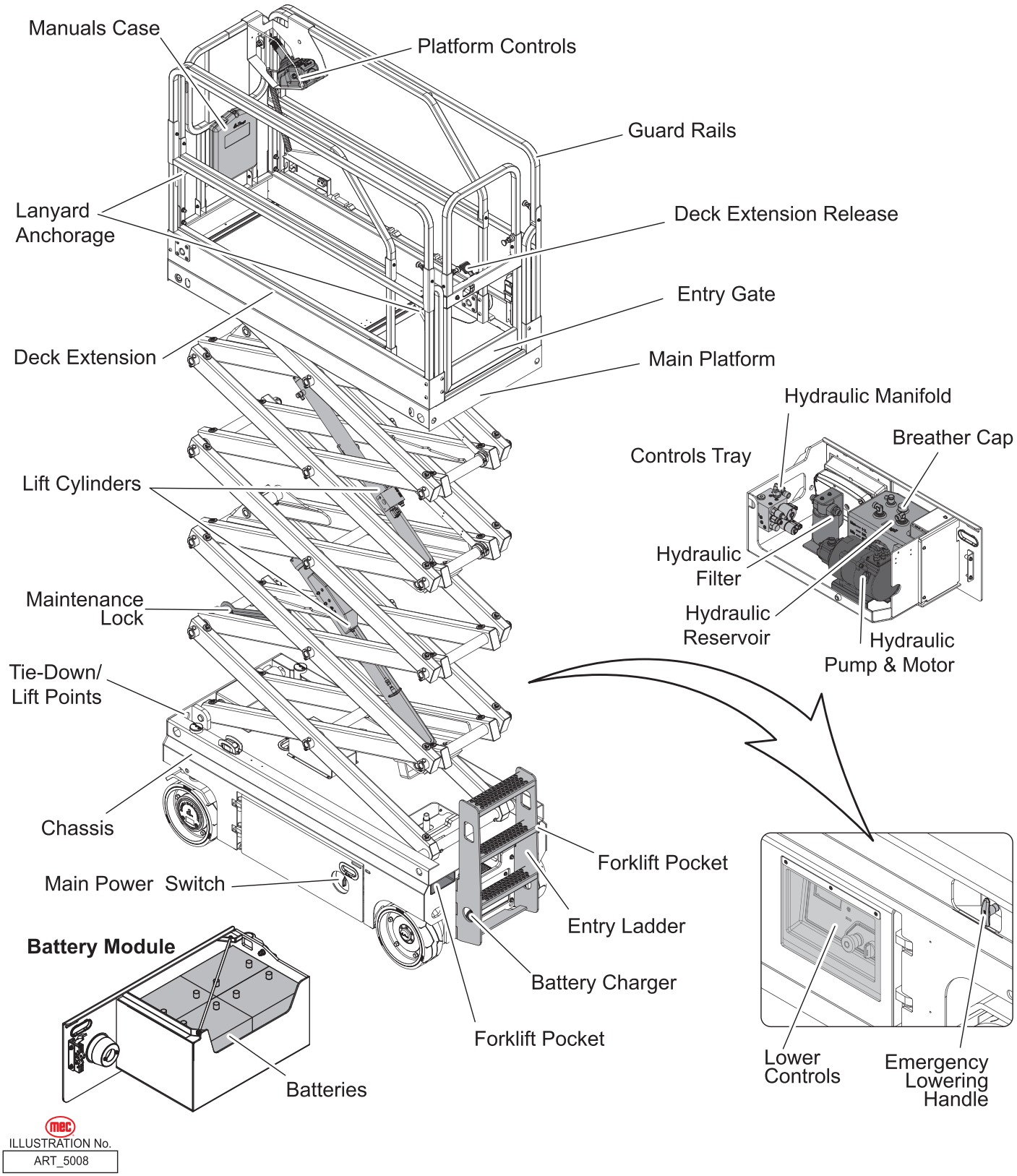
Torque Specifications	
Hydraulic Tank Retaining Fasteners, Dry	35 in-lbs (4 Nm)
Hydraulic Tank Drain Plug, Lubricated	26 in-lbs (2.9 Nm)

13. Install the hydraulic pump inlet line into the tank. Install the fitting onto the pump and torque.
14. Install the hydraulic pump return line into the tank. Install the fitting onto the hydraulic filter head and torque.
15. Fill the tank with hydraulic oil until the fluid is full in the hydraulic tank. Do not overfill.
16. Activate the pump to fill the hydraulic system with oil and bleed the system of air.

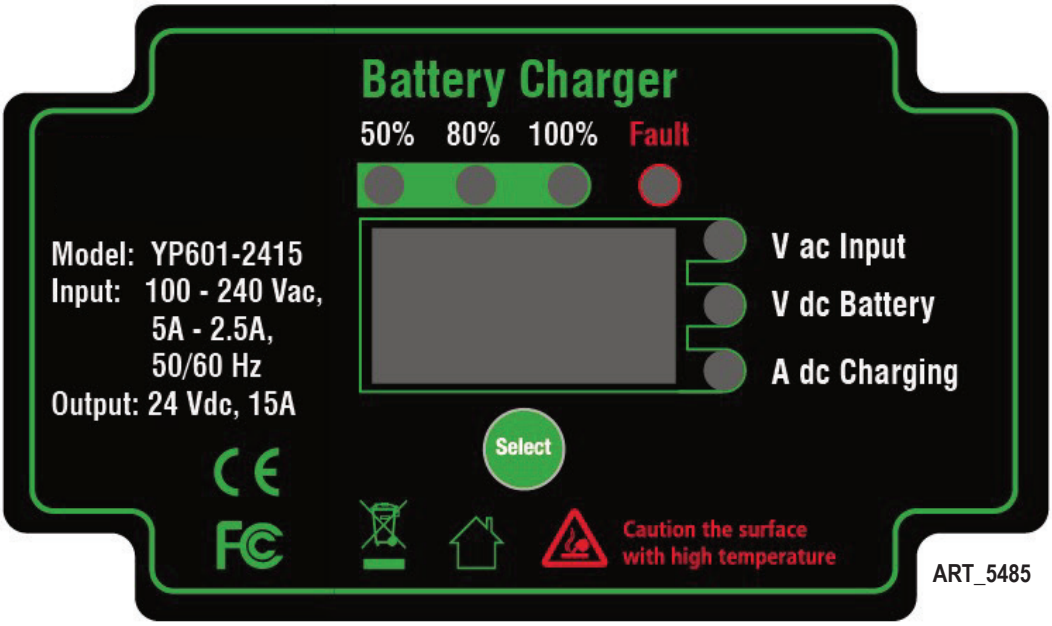
WARNING

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.

Control Component Locations



Battery Charger



1. The LED display shows 50%, 80% and 100% of battery capacity. When battery capacity is less than the LED marker, the display will blink. The display lights up when capacity has reached the marker level.
2. Fault LED lights up when irregularities are encountered, for example: high input voltage, no battery connected or over temperature of charger. When this red LED is on, the error code is on display.
3. The LED display can show input AC voltage, battery voltage and charge current the status. LED lights shows the specified status during the charging cycle.
4. When the AC is connected from the main, all LED displays should turn on for 10 seconds and also show the charge curve number. After this, the charger will start to work and the LED display shows AC input voltage, battery voltage and charge current.

Code	Cause Reason	Description
E01	Wrong battery voltage	Output is not connected to battery or battery is incorrectly connected.
E02	Input voltage is out of range.	Please check the input voltage is in 90V-260V.
E03	Battery temperature is too high.	Please lock the connecting terminal with the battery tightly.
E04	The internal temperature of the charger exceeds limit.	Don’t put anything over the surface of the charger.
E05	Wrong battery system connected.	The battery voltage not fit the charger.

Fault Codes

The LED readout screen displays fault codes that provide information about the machine operating status and about malfunctions. The fault codes listed in the following charts describe malfunctions and can aid in troubleshooting the machine by pinpointing the area or component affected.

Art_5533

List of Fault Codes			
Code	**Description**	**Lift Reaction**	**Failure Reason & Solution**
01	System Initialization Fault	Disables All Motion	System initialization failure if fault last more than a couple seconds. The system will prohibit all actions. **Solution:** 1. Try to power on again.
02	System Communication Fault	Disables All Motion	The CAN bus communication between the upper/lower controller is faulty, and the system will prohibit all actions. 1. The lower or upper communication cable is damaged. 2. The upper control is faulty, replace the platform control box. 3. Measure battery voltage. 4. Check power relay. 5. Replace ECU.
03	Invalid Option Setting Fault	Disables All Motion	The current model code inside the ECU is not set to the correct model. **Solution:** 1. Try to reset the mode code of the corresponding model (for specific operation steps and model codes of each model.
04	Calibration Fault	Warning Only	1. If the angle sensor calibration fails, it may be that the angle sensor analog output changes too little or no change during the calibration process. Check whether the angle sensor is firmly fixed, whether the power supply and wiring are normal. Replace the angle sensor. 2. No-load/full-load calibration fails, it may be that the pressure sensor and angle sensor analog output changes too little or no change during the calibration process, or the machine is not level.
08	Key Switch Error	Disables All Motion	Platform/base control key switch failure or up & down control switching action is too fast. 1. Try to restart the power supply. 2. Replace Key switch.
09	GPS Communication Fault	Warning Only	The built-in GPS module or external GPS module communication failed (if equipped). **Solution:** 1. Check whether the connection between the CAN communication bus of the external GPS module and the CAN bus of the machine is normal.
10	MC Communication Fault	Warning Only	Check whether the wiring of the motor controller is normal, check the wiring from the controller to the drive motor.
11	BMS Communication Fault *(Lithium battery equipped only)*	Warning Only	Lithium battery BMS CAN bus communication failure, only alarm. **Solution:** 1. Check whether the CAN bus communication between the lithium battery and the machine is normal. 2. Replace the lithium battery.

Code	Description	Lift Reaction	Failure Reason & Solution
12	Chassis Up or Down Switch ON	Disable Chassis Control	ECU panel lift buttons failure, ground control operation is prohibited. **Solution:** 1. Check ECU lift switch.
18	Pothole Guard Fault	Disable Lifting and Driving	If it faults with platform elevated: 1. The left or right pothole is obstructed. 2. Pothole limit switches stuck or needs to be adjusted. If it faults when platform is stowed: 1. Check down limit switch (1930SE to 4555SE). 2. Check angle sensor (Micro13 and 19). Calibrate height.
31	Pressure Sensor 1 Fault	Disables All Motion	1. Check the pressure sensor power supply and its wiring. 2. Check whether the signal input of ECU pressure sensor 1 is normal. (Check ECU No. 45 pin) 3. Possible pressure sensor failure.
32	Angle Sensor Fault	Disables All Motion	1. Check the angle sensor power supply and its wiring. 2. Check whether the ECU angle sensor signal input is normal. (ECU 23 pin) 3. Possible angle sensor problem.
35	Pressure Sensor 2 Fault	Disables All Motion	1. Check the pressure sensor power supply and its wiring to ECU. 2. Check whether the signal input of ECU pressure sensor 2 is normal. (Check ECU 46 pin) 3. Possible pressure sensor failure.
36	Battery Discharged Alarm	Drive speed limit	It indicates that the current battery power is low. In order to prevent the battery from over-discharging, the system will prohibit the lifting function and limit the driving speed. **Solution:** 1. The battery needs to be charged in time.
37	Battery Drain Shutdown	Disables All Motion	The battery needs to be charged in time.
42	Platform Left Button ON	Warning Only	The operation handle enable, steer right or steer left button is triggered during power on. **Solution:** 1. Operate the machine 3s after the system is powered on. 2. Replace the joystick handle.
43	Platform Right Button ON	Warning Only	
46	Platform Enable Button ON	Disable Platform Control	
47	Joystick Not In Neutral	Drive speed limit	The joystick is not in the neutral position during power on. 1. Check or replace joystick.
52	Drive Forward Coil Fault	Disable Lifting and Driving	Check ECU Option settings Electric drive models do not have drive coils. 1. Set the correct option code for the machine (for specific operation steps and model codes of each model.
53	Drive Reverse Coil Fault	Disable Lifting and Driving	
54	Lift Up Coil Fault	Disable Lifting and Driving	The platform lifting solenoid valve has open circuit failure, and the lifting and driving functions are prohibited. **Solution:** 1. Check the solenoid valve coil and its wiring at the valve block.
55	Lift Down Coil Fault	Disable Lifting and Driving	Lift solenoid valve open circuit failure when the platform is lowered. **Solution:** 1. Check the lowering solenoid valve coil and its wiring at the lift cylinder valve block.
56	Steer Right Coil Fault	Disable Lifting and Driving	Right/left steer solenoid valve open circuit failure. **Solution:** 1. Check the right turn/left turn solenoid valve coil and its wiring at the valve block.
57	Steer Left Coil Fault	Disable Lifting and Driving	
59	Parallel Coil Fault	Disable Lifting and Driving	1. Check ECU options settings. Electric drive models are not equipped with parallel coils.

Code	Description	Lift Reaction	Failure Reason & Solution
68	Battery Low Voltage	Disables All Motion	It is reminded that the battery power is lower than the preset value, and the machine needs to be charged in time to protect the battery from over- discharge and damage.
80	Platform Load is over 80%	Warning Only	Prompt that the load of the current exceeds 80% / 90% / 99% of the rated load, only an alarm does not limit the action.
90	Platform Load is over 90%	Warning Only	
99	Platform Load is over 99%	Warning Only	
PCU: LL ECU: 100	Machine out of level	Disable Lifting and Driving	Indicates that the machine is in a tilted state in excess of maximum tilt angle value. Lifting and driving operations are prohibited. You need to descend to the lower limit and drive to a solid level surface to work at heights.
PCU: OL ECU: 101	Platform Overloaded	Prohibition of lifting and driving; The platform is forbidden to descend after exceeding the “overload descent height”	It prompts that the current platform load exceeds the rated load. In order to ensure the safe use of the equipment, the system will prohibit the lifting and driving functions at this time, and it is forbidden to descend above the overloaded descending height.
102	Restore Parameters to Default	Warning Only	/
103	Battery is draining	Warning Only	/
104	Motor Controller Fault	Warning Only	Press Yellow Down arrow for the 4-digit fault code. See Motor Controller fault codes listed later in this section.
105	BMS Alarm	Prohibit lifting, limit driving speed	The lithium battery management system has an alarm, and the control system will prohibit the lifting function and limit the driving speed at this time. Disregard if not Lithium
106	BMS Fault	Disable All Motion	Lithium battery management system fails, in order to ensure safety, the control system will prohibit all actions. Disregard if not lithium.
PCU: n1 ECU: 1xxx	Right Drive Motor Controller Fault	Controller Dependent	Motor controller processing.
PCU: n2 ECU: 2xxx	Left Drive Motor Controller Fault	Controller Dependent	Motor controller processing.
PCU: n3 ECU: 3xxx	Pump Motor Controller Fault	Controller Dependent	Motor controller processing.
PCU: UP	Platform up limit position	Warning Only	The system prompts that the platform has reached the upper limit and only gives an alarm.

Motor Controller Fault Codes

E700 receives the fault code sent by the motor controller and displays it, but it does not perform any protection actions or record it in the log. The fault codes of the motor controller are as follows: (1xxx represents the right drive motor controller, 2xxx represents the left drive motor controller, 3xxx represents the pump motor controller, 4xxx represents the steer motor controller).

Code	Fault name	Solution
X008	WATCHDOG	Replace the motor controller.
X017	LOGIC FAILURE #3	Replace the motor controller.
X018	LOGIC FAILURE #2	Replace the motor controller.
X019	LOGIC FAILURE #1	1. Check the battery voltage. 2. Replace the motor controller.
X028	PUMP VMN LOW	
X029	PUMP VMN HIGH	
X030	VMN LOW	1. Motor wiring problem. 2. Check for shorts inside motor. 3. Possible motor-controller problem.

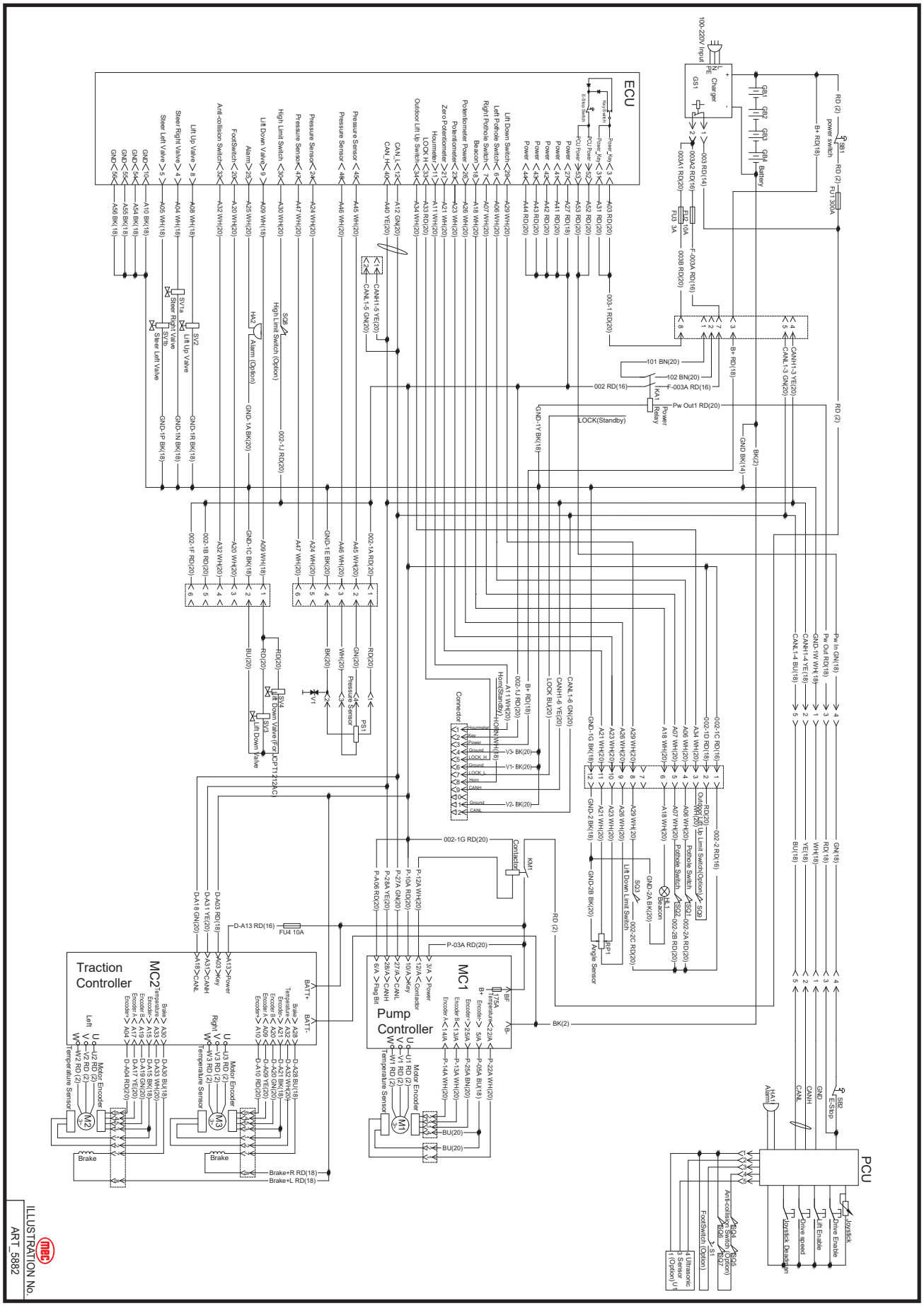
Code	Fault name	Solution
X031	VMN HIGH	1. Motor wiring problem. 2. Check for shorts inside motor. 3. Possible motor-controller problem.
X037	CONTACTOR CLOSED	1. Contactor points stuck closed. 2. The large wire of contactor is short-circuited to the positive terminal. 3. Possible controller problem.
X038	CONTACTOR OPEN	1. Contactor points broken or unable to close. 2. No power to signal wire to contactor or not connected. 3. Big fuse is broken. 4. Possible motor controller problem.
X052	PUMP I=0 EVER	
X053	STBY I HIGH	Motor controller internal current sensor hardware problem, replace the motor controller.
X060	CAPACITOR CHARGE	1. Check for mis-wired motor controller large terminals. 2. Key Switch output shorted. 3. Possible motor controller failure.
X062 X065	TH. PROTECTION MOTOR TEMPERAT.	1. Wait to cool down. 2. If motor controller is cool, replace the motor controller. Wait for the motor to cool down.
X066	BATTERY LOW	Charge the battery.
X074	DRIVER SHORTED	1. The contactor coil is shorted. 2. The coil of the contactor has B+ before it should. 3. Possible motor controller failure.
X075	CONTACTOR DRIVER	1. Contactor coil is broken. 2. Coil wiring error. 3. Possible motor controller problem.
X078	VACC NOT OK	
X079	INCORRECT START	
X080	FORW + BACK	Both directions powered, check the ECU.
X086	PEDAL WIRE KO	
X152	IIC BUS ERROR	Replace the motor controller.
X153	ENCODER ERROR XX	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X154	OUT MISMATCHXX	Replace motor controller.
X155	SP MISMATCHXX	Replace motor controller.
X157	INPUT MISMATCHXX	Replace motor controller.
X158	NOT RDY DRV.POW.	Replace motor controller.
X159	HVIL FAIL	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X160	SENS BAT TEMP KO	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X161	RPM HIGH	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X162	BUMPER STOP	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X163	ED SLIP MISMATCH	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X164	PWM ACQ. ERROR	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.

Code	Fault name	Solution
X168	SIN/COS D.ERR XX	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X169	ENCODER D.ERR XX	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X170	WRONG KEY VOLT.	1. Detect whether there is a sudden change in voltage. 2. Check motor control wiring.
X171	ACQUIRING A.S.	1. The encoder is broken. 2. Motor stuck more than a certain time. 3. Replace the motor controller.
X172	ACQUIRE ABORT	1. The encoder is broken. 2. Motor stuck more than a certain time. 3. Replace the motor controller.
X173	ACQUIRE END	1. The encoder is broken. 2. Motor stuck more than a certain time. 3. Replace the motor controller.
X174	OFFSET SPD.SENS.	Contact ZAPI engineer.
X175	SPEED FB. ERROR	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X176	HOME SENS.ERR XX	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X177	COIL SHOR. EB.	1. Check if the brake wiring is short circuit. 2. Replace the motor controller.
X178	MOTOR TEMP. STOP	1. Whether the motor temperature is actually too high. 2. Whether the motor temperature sensor wiring open circuit. 3. Replace the motor controller.
X179	STEER SENSOR KO	Check voltage and wiring of steering potentiometer.
X180	OVERLOAD	1. Problem with motor/encoder wiring. 2. The motor has excessive resistance to rotation. 3. Possible motor controller problem.
X181	WRONG ENC SET	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X185	TILLER ERROR	
X186	WAIT MOT.P STILL	
X187	LIFT+LOWER	
X188	INT. CANBUSKO	Replace the motor controller.
X189	PUMP INC START	
X190	PUMP VMN NOT OK	
X191	PUMP VACC NOT OK	
X192	PUMP VACC RANGE	
X193	SMARTDRIVER KO	1. Check the brake positive wiring. 2. Check A13 of drive-motor controller, check A3 of pump-motor controller. 3. Parameter in controller is abnormal. 4. Replace the motor controller.
X194	AUX BATT. SHORT.	1. Parameter setting problem. 2. Check if the brake positive wiring and voltage are normal.
X195	POS. EB. SHORTED	1. Check the brake positive wiring. 2. Check A13 of drive-control Check A13 of pump control. 3. Motor controller parameter setting problem. 4. Replace the motor controller.
X196	MOT.PHASE SH.	1. Check whether motor wiring is normal, whether there is leakage to case or water in motor. 2. Possible motor controller problem.

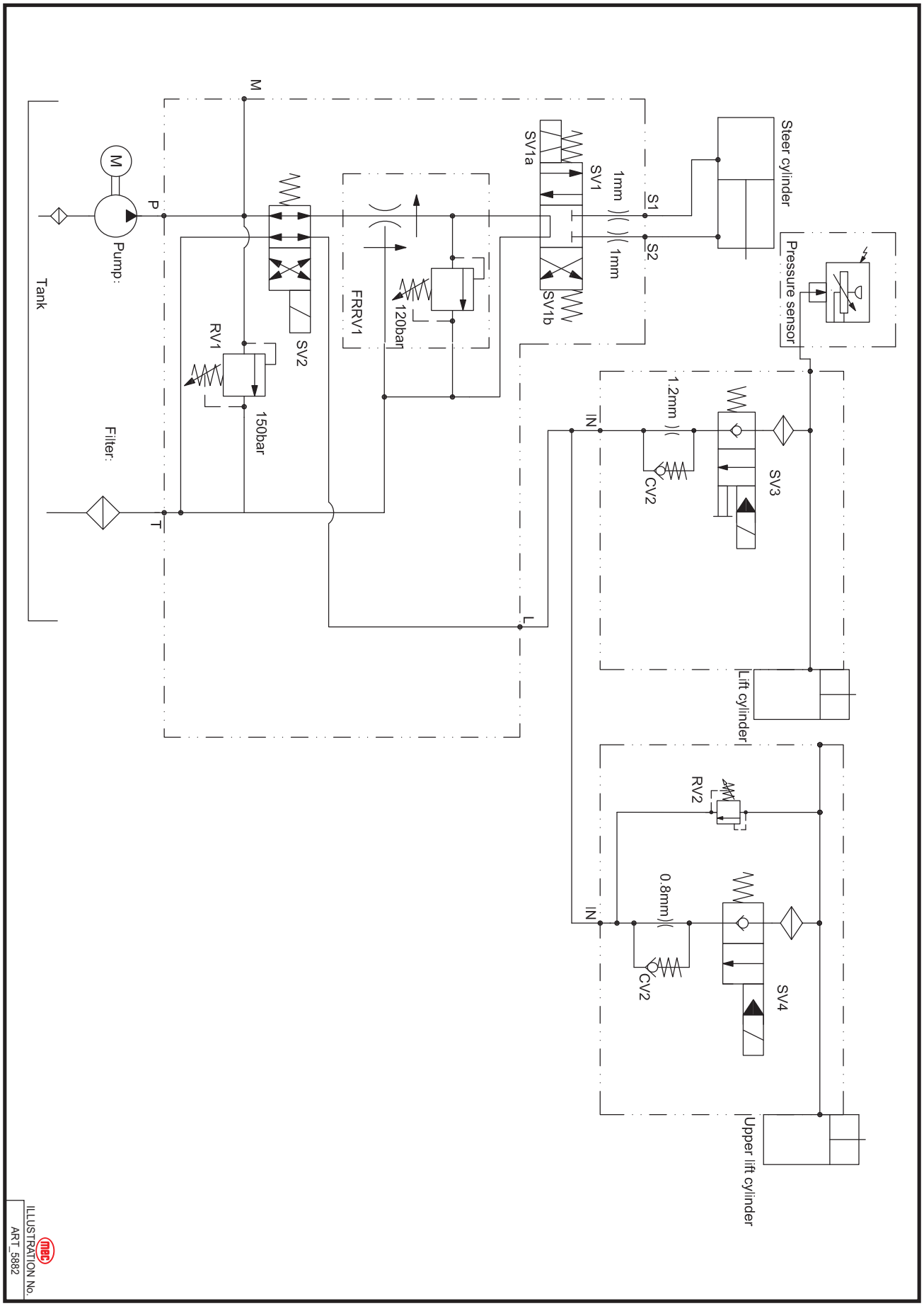
Code	Fault name	Solution
X197	WRONG SLAVE VER.	Flash the correct software.
X198	M/S PAR CHK MISM	Replace Motor controller.
X199	PARAM TRANSFER	Wait a few seconds and power on again.
X200	VDC OFF SHORTED	1. Check the battery. 2. Check motor controller connections.
X201 X202	TORQUE PROFILE	Replace motor controller.
	VDC LINK OVERV.	1. Check for abnormal regenerative braking. 2. One of the external capacitors is damaged. 3. Replace motor controller.
X204	BRAKE RUN OUT	
X205	EPS RELAY OPEN	
X206	INIT VMN HIGH	1. Motor wiring problem. 2. Check whether the motor voltage is leaking to case. 3. Possible motor-controller problem.
X207	INIT VMN LOW	1. Motor wiring problem. 2. Check whether the motor is leaking. 3. Possible motor-controller problem.
X208	EEPROM KO	
X209	PARAM RESTORE	Restart the machine.
X210	WRONG RAM MEM.	1. Power on key switch again. 2. After power on, the problem is still there, replace the motor controller.
X211	STALL ROTOR	1. Excessive resistance to motor shaft rotation. 2. Motor mechanical problem.
X212	POWER MISMATCH	Replace Motor controller.
X213	POSITIVE LC OPEN	1. Contactor coil positive wiring problem. 2. Possible motor controller problem.
X214	EVP COIL OPEN	1. Check the wiring to valve coils. 2. Possible motor controller problem.
X215	EVP DRIV. SHORT.	1. Check the wiring to valve coils. 2. Possible motor controller problem.
X216	EB. COIL OPEN	1. Check for brake coil open circuit. 2. Check if the wiring is open circuit to brake coil. 3. Replace the motor controller.
X217	PEB NOT OK	1. Check the brake positive wiring. 2. Check A13 of drive-motor controller, check A3 of pump-motor controller. 3. Parameter in controller is abnormal. 4. Replace the motor controller.
X218	SENS MOT TEMP KO	1. The actual temperature is too high, let cool. 2. Motor temperature sensor problem or wiring problem.
X220	VKEY OFF SHORTED	1. Check the battery. 2. Possible motor controller problem.
X221	HANDBRAKE	
X223	COIL SHOR.MC	1. Contactor coil short circuit. 2. The contactor signal wire is short-circuited. 3. Possible motor controller problem.
X224	WAITING FOR NODE	Check another node.
X224	WAITING FOR NODE	
X224	WAITING FOR NODE	
X226	VACC OUT RANGE	
X227	HW FAULT	Replace the motor controller.
X228	TILLER OPEN	
X229	HW FAULT EB.	Replace the motor controller.
X230	LC COIL OPEN	1. The coil wire is disconnected. 2. Possible motor controller Problem.

Code	Fault name	Solution
X231	PUMP I NO ZERO	
X232	CONT. DRV. EV	1. Check the ECU options settings. 2. Possible motor controller problem.
X233	POWERMOS SHORTED	1. Motor wiring problem. 2. Check for motor voltage leaking to case. 3. Possible motor-controller problem.
X234	DRV. SHOR. EV	1. Check the ECU options. 2. Replace the motor controller.
X235	CTRAP THRESHOLD	Replace the motor controller.
X236	CURRENT GAIN	Replace the motor controller.
X237	ANALOG INPUT	Replace the motor controller.
X238	HW FAULT EV.	
X239	CONTROLLER MISM.	Check ECU version.
X240	EVP DRIVER OPEN	1. Check the wiring to valve block. 2. Possible motor controller problem.
X241	COIL SHOR. EVAUX	1. Check the wiring to valve block. 2. Replace the motor controller.
X242	OPEN COIL EV.	1. Check the wiring to valve block. 2. Replace the motor controller.
X243	THROTTLE PROG.	
X244	WARNING SLAVE	Check the specific fault of the slave-controller.
X245	IQMISMATCHED	Replace motor controller.
X246	EB. DRIV.OPEN	Replace motor controller.
X247	DATA ACQUISITION	Replace motor controller.
X248	NO CAN MSG.	1. Interference problem, check CAN resistance setting, interference level. 2. For other software setting problems, you need to contact MEC Aerial Work Platforms.
X249	CHECK UP NEEDED	Change the “CHECK UP DONE” parameter to ON.
X250	THERMIC SENS. KO	Replace the motor controller.
X251	WRONG SET BAT.	1. The parameter “battery type” is set incorrectly. 2. External voltage is too low or too high.
X253	FIELD ORIENT. KO	Replace motor controller.
X254	EB. DRIV.SHRT.	1. Check if the brake wiring is shorted. 2. The motor-controller is broken.

Electrical Schematic



Hydraulic Schematic



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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.

Item	Part Number	Description	Qty.

Steer Linkage and Wheels Assembly

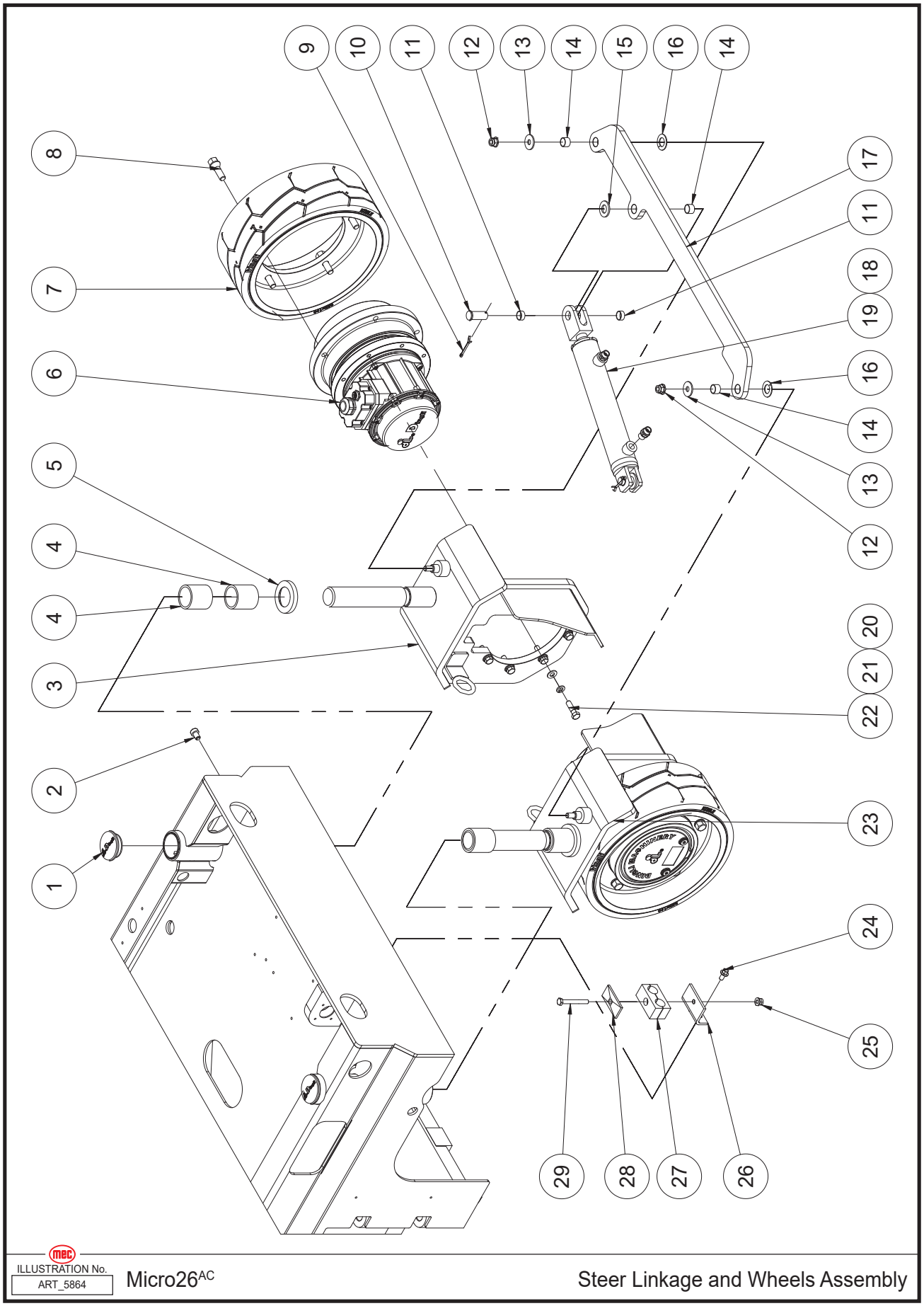

ILLUSTRATION No. ART_5864

Micro26AC

Steer Linkage and Wheels Assembly

Item	Part Number	Description	Qty.
1	45422	Cover	2
2	41794	Screw	2
3	46232	Steer Yoke Weldment	1
4	43556	Bearing	4
5	43557	Washer	2
6	47487	Left Drive, Silver Motor Retrofit Kit (Up To Serial #17900458)	1
	47488	Right Drive, Silver Motor Retrofit Kit (Up To Serial #17900458)	1
6	47483	Drive Motor Assembly, Black Motors (From Serial #17900459)	2
--	47490	Motor (From Serial #17900459)	1
--	46235	Reducer (From Serial #17900459)	1
--	46236	Brake (From Serial #17900459)	1
7	46237	Wheel	2
8	46238	Wheel Bolt	10
9	43563	Cotter Pin	2
10	41321	Pin	2
11	41225	Bearing	4
12	50311	Nut NNYL M10-1.50 Flange	2
13	53375	WSHR M10 Flat Fender Washer	2
14	41210	Bearing	4
15	43564	Washer	1
16	41222	Bearing	2
17	43565	Tie Rod	1
18	43076	Straight Fitting	2
19	41593	Steer Cylinder Assembly	1
--	41594	Seal Kit	1
20	53317	WSHR 3/8 Standard Flat Narrow Washer	12
21	53316	WSHR 3/8 Spring Washer	12
22	53376	Screw HHCS 3/8-16 × 1 3/8	12
23	46239	Steer Yoke Weldment	1
24	53194	Screw HHCS M08-1.25 × 16 Serrated Flange	2
25	50313	Nut NNYL M08-1.25 Flange	1
26	41425	Hose Clamp Support	1
27	46240	Hose Clamp	1
28	46241	Base Plate	1
29	50251	Screw HHCS M08-1.25 × 65	1

Pothole Protection Assembly

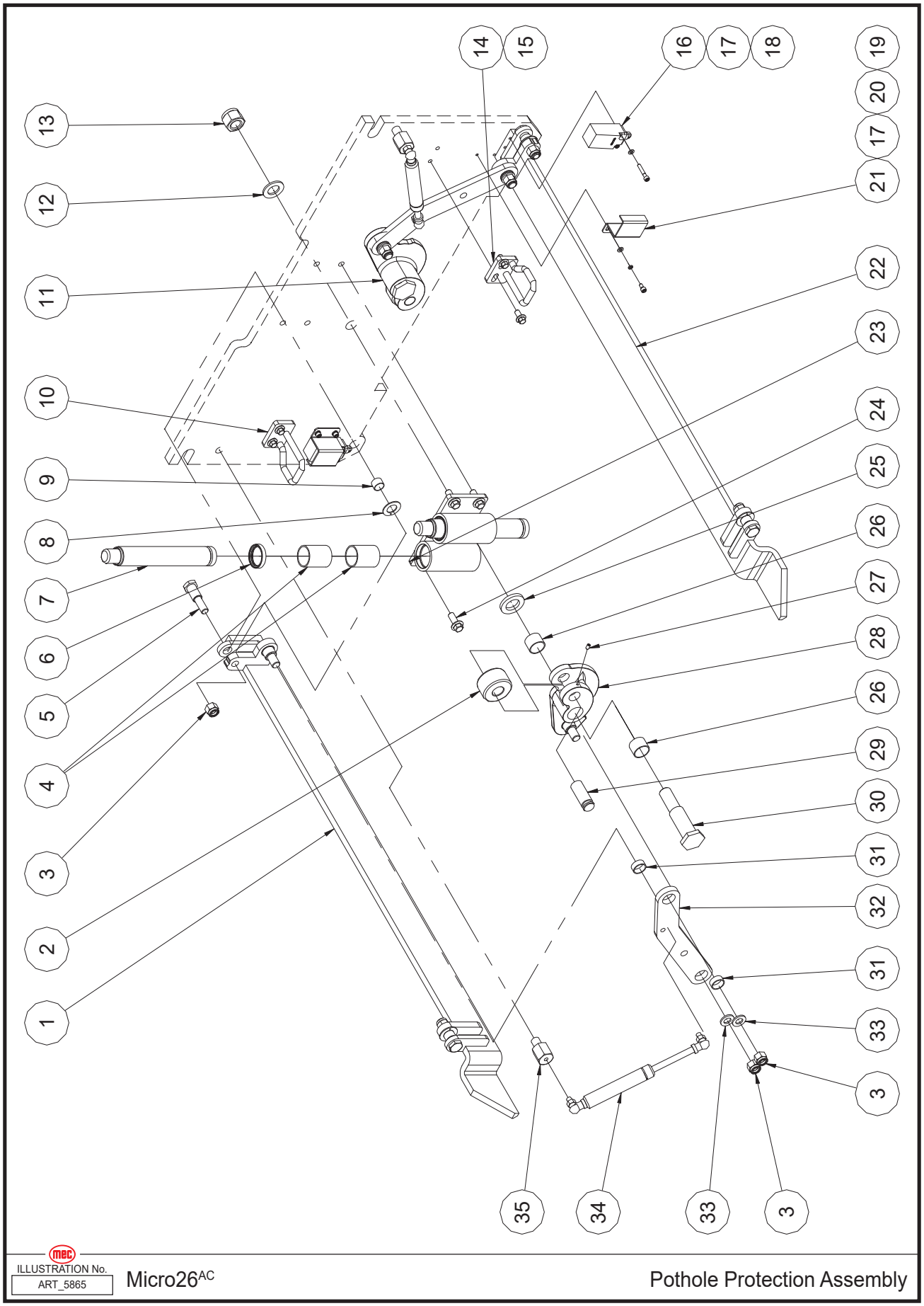

ILLUSTRATION No. ART_5865

Micro26AC

Pothole Protection Assembly

Item	Part Number	Description	Qty.
1	43567	Pothole Guard Weldment	1
2	41049	Roller	2
3	50050	Nut NNYL M12 × 1.75	8
4	43568	Bearing	4
5	41604	Pin	4
6	44889	Seal	2
7	43569	Pothole Hole Pusher Assembly	2
8	41222	Bearing	4
9	41210	Bearing	4
10	41807	Lock Clasp	1
11	47093	Linkage Weldment	1
12	50005	WSHR M20 Standard Flat Washer	2
13	50052	Nut NNYL M20 × 2.50	2
14	41808	Lock Clasp	1
15	53194	Screw HHCS M08-1.25 × 16 Serrated Flange	4
16	46242	Limit Switch	2
17	53038	WSHR M05 Standard Flat Washer	8
18	53171	Screw SHCS M05-0.80 × 30	4
19	53173	Screw SHCS M05-0.80 × 10	4
20	53043	WSHR M05 Spring Washer	4
21	41035	Switch Cover	2
22	43570	Pothole Guard Weldment	1
23	44891	Pothole Guide	1
24	50429	Screw HHCS M10-1.50 × 25 Serrated Flange	4
25	41040	Washer	2
26	41046	Bearing	4
27	53283	Set Screw M05-0.80 × 10 Cone Point	2
28	47092	Linkage Weldment	1
29	41048	Pin	2
30	41047	Pin	2
31	41214	Bearing	4
32	43571	Pothole Link Plate	2
33	50003	WSHR M12 Standard Flat Washer	4
34	41045	Gas Shock	2
35	43573	Gas Shock Strut	2

Battery Pack Module

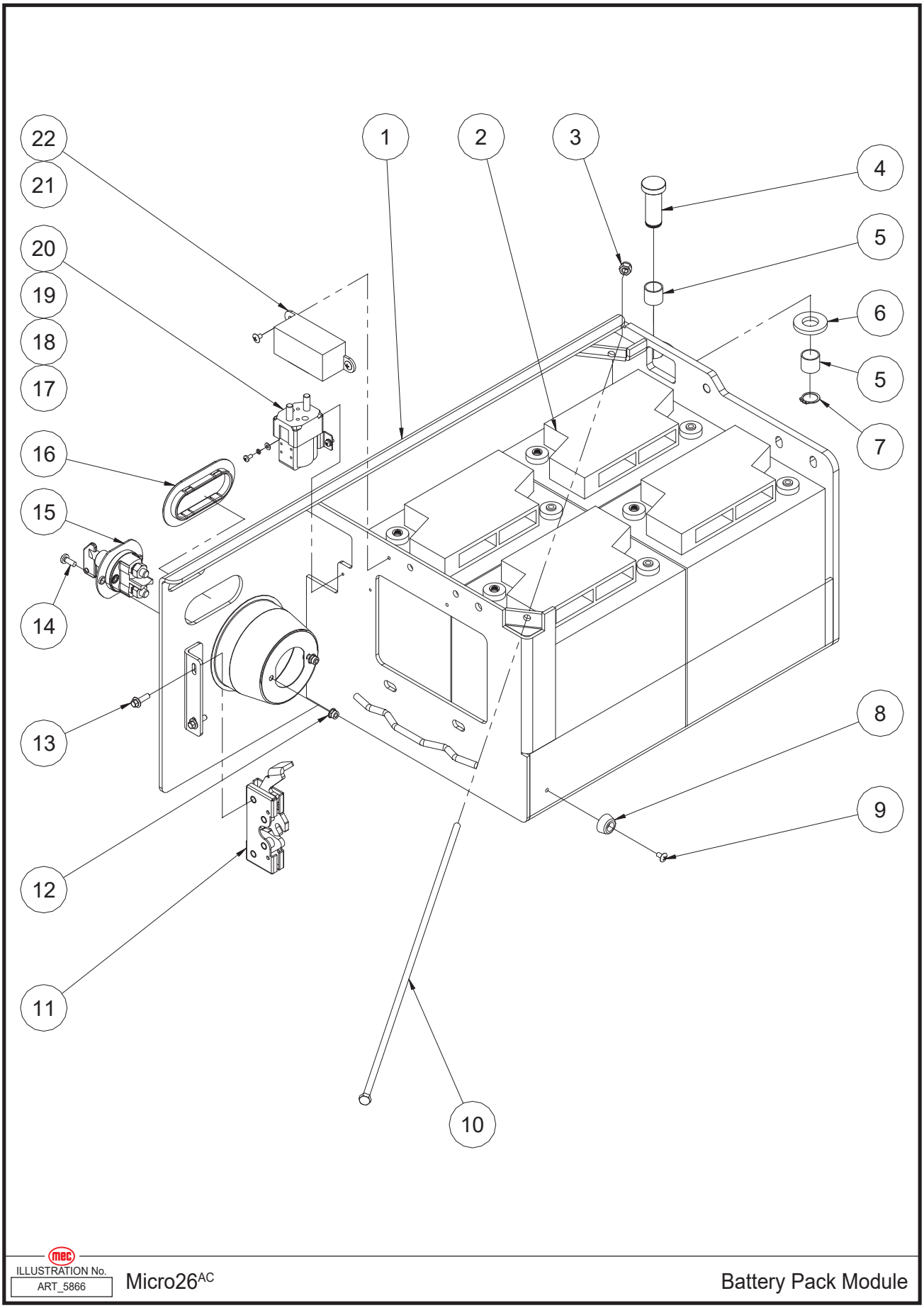

ILLUSTRATION No. ART_5866

Micro26AC

Battery Pack Module

Item	Part Number	Description	Qty.
1	46243	Battery Tray Weldment	1
2	46244	Battery	4
3	50048	Nut NNYL M08 × 1.25	1
4	41813	Hinge Pin	2
5	41037	Bearing	4
6	41814	Washer	2
7	43574	Circlips	2
8	41120	Bumper	1
9	53265	Screw THMS M05-0.80 × 10	1
10	41408	Threaded Rod	1
11	42896	Latch (Left)	1
12	50568	Nut NNYL M06-1.00 Flange	2
13	53255	Screw HHCS M06-1.00 × 20 Serrated Flange	2
14	53231	Screw PHMS M06-1.00 × 16	2
15	46245	Power Switch	1
16	41068	Handle Hole Ring	1
17	53276	Screw PHMS M04-0.70 × 8	2
18	53062	WSHR M04 Spring Washer	2
19	50284	WSHR M04 Standard Flat Washer	2
20	41331	Contactor	1
21	53451	Screw THMS M05-0.80 × 8	2
22	46246	250A Fuse Assembly	1
--	46247	250A Fuse	1
--	46248	Fuse Block	1

Power Unit Module

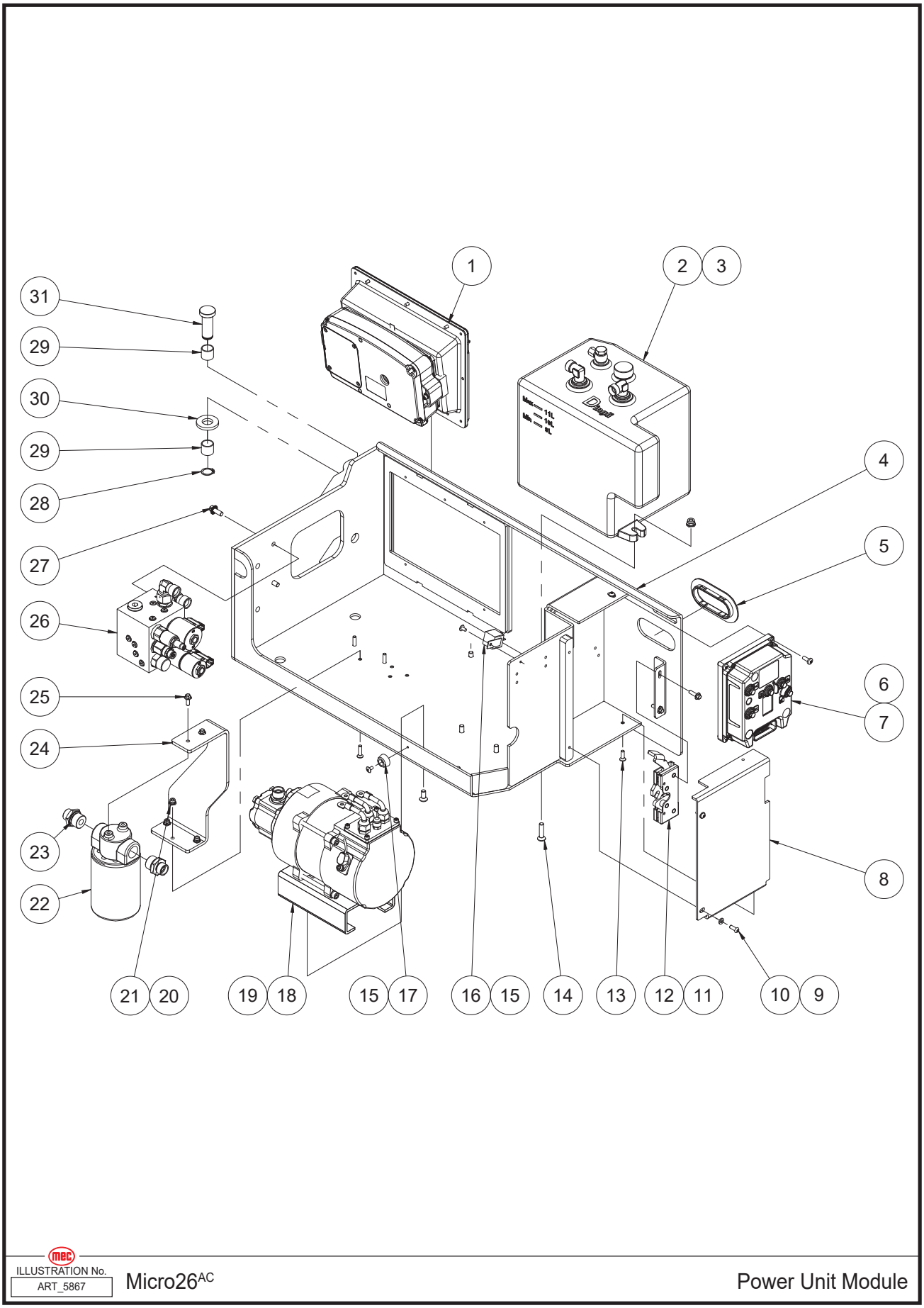

ILLUSTRATION No. ART_5867

Micro26AC

Power Unit Module

Item	Part Number	Description	Qty.
1	REF	Ground Control And Cover Assembly (Refer to page 63)	1
2	REF	Hydraulic Tank Assembly (Refer to page 61)	1
3	50313	Nut NNYL M08-1.25 Flange	2
4	46249	Hydraulic Tray Weldment	1
5	41068	Handle Hole Ring	1
6	53231	Screw PHMS M06-1.00 × 16	4
7	46250	Motor Controller	1
8	46251	Cover	3
9	50000	WSHR M06 Standard Flat Washer	1
10	53448	Screw BHCS M06-1.00 × 16	3
11	53255	Screw HHCS M06-1.00 × 20 Serrated Flange	2
12	41067	Latch (Right)	1
13	50561	Screw CSCS M06-1.00 × 20	1
14	53071	Screw CSCS M08-1.25 × 35	2
15	53265	Screw THMS M05-0.80 × 10	2
16	46252	Relay	1
17	41120	Bumper	1
18	REF	Pump Motor Assembly (Refer to page 67)	1
19	53282	Screw CSCS M08-1.25 × 20	4
20	50386	Screw CSCS M06-1.00 × 25	3
21	50568	Nut NNYL M06-1.00 Flange	3
22	41077	Filter Assembly	1
--	41078	Filter Element	1
23	43576	Straight Fitting	2
24	46253	Filter Bracket	1
25	53256	Screw HHCS M06-1.00 × 16 Serrated Flange	2
26	REF	Function Manifold (Refer to page 93)	1
27	53257	Screw HHCS M08-1.25 × 20 Serrated Flange	4
28	43574	Circlips	2
29	41037	Bearing	4
30	41814	Washer	2
31	41813	Hinge Pin	2

REF - Reference

Hydraulic Tank Assembly

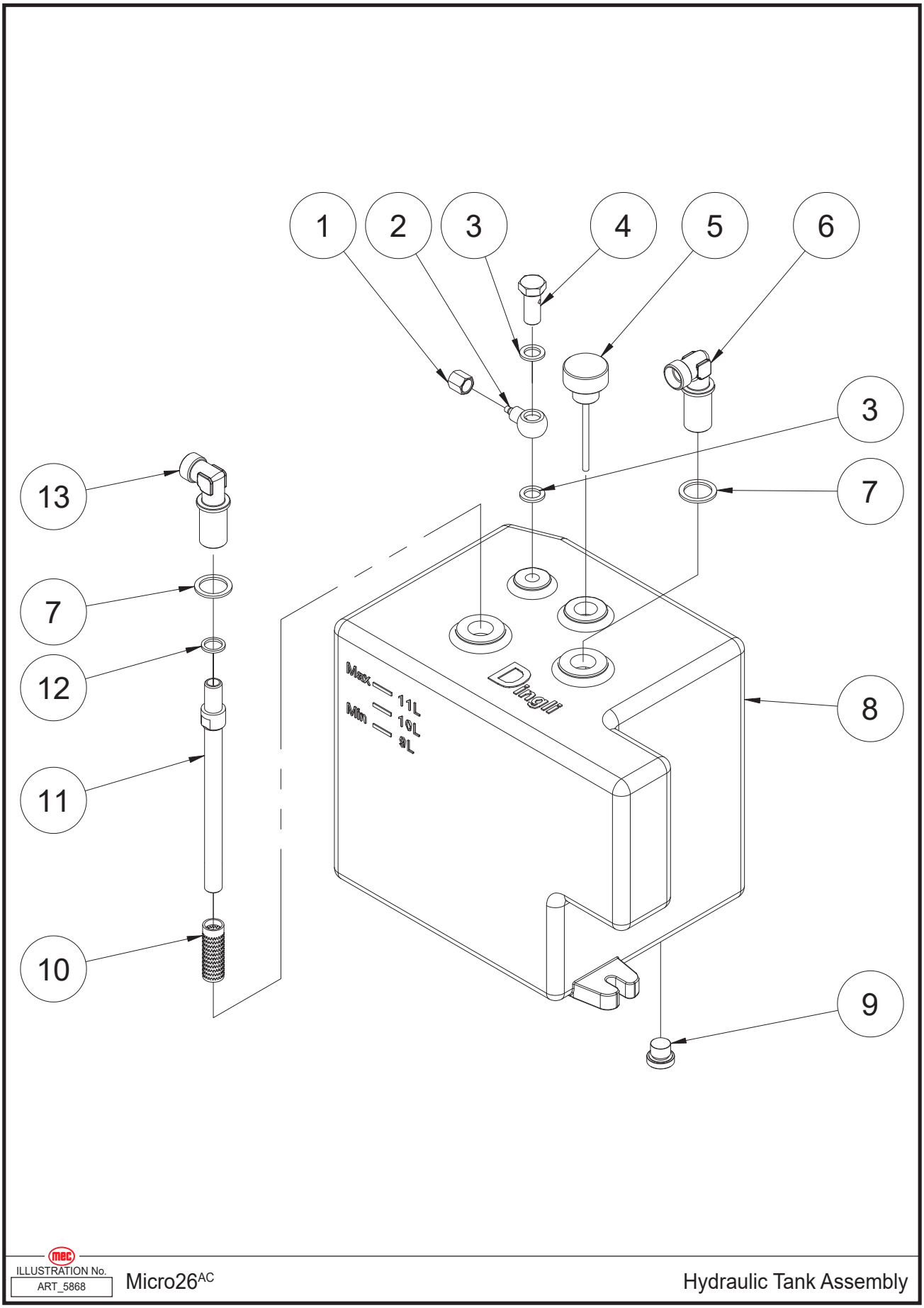

ILLUSTRATION No. ART_5868

Micro26AC

Hydraulic Tank Assembly

Item	Part Number	Description	Qty.
1	41413	Nut	1
2	41167	Fitting	1
3	44002	Washer	2
4	41166	Fitting	1
5	41082	Breather	1
6	41085	Fitting	1
7	41412	Tank	2
8	46254	Tank	1
9	41087	Plug	1
10	41824	Filter	1
11	44568	Suction Pipe	1
12	44567	Washer	1
13	41826	Fitting	1

Ground Control and Cover Assembly

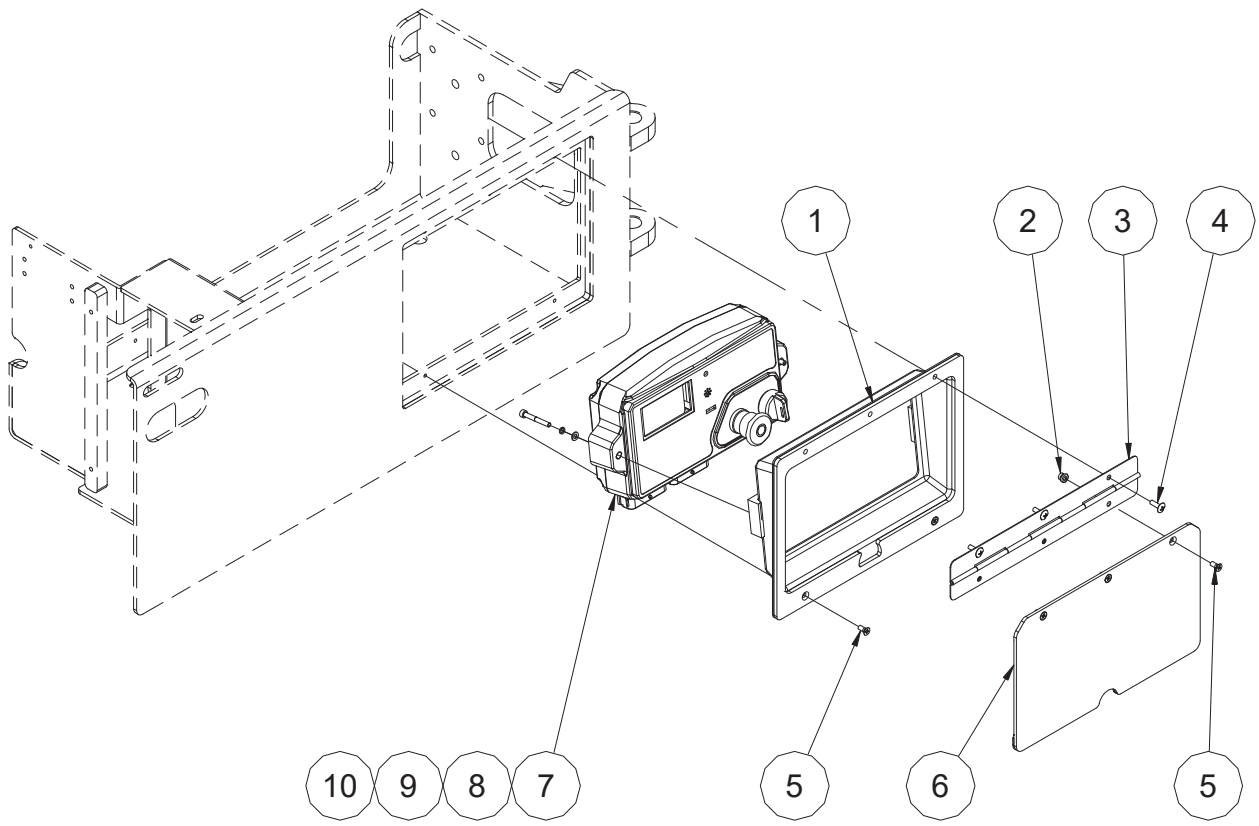

ILLUSTRATION No. ART_5869

Micro26AC

Ground Control and Cover Assembly

Item	Part Number	Description	Qty.
1	46255	Ground Control Bracket	1
2	53281	Nut NNYL M05-0.80 Flange	3
3	46256	Hinge	1
4	53224	Screw THMS M05-0.80 × 12	3
5	53279	Screw CSCS M05-0.80 × 12	5
6	46257	Cover	1
7	46313	Ground Control Assembly (Refer to page 65)	1
8	53038	WSHR M05 Standard Flat Washer	2
9	53043	WSHR M05 Spring Washer	2
10	53067	Screw SHCS M05-0.80 × 40	2

REF - Reference

Ground Control Assembly

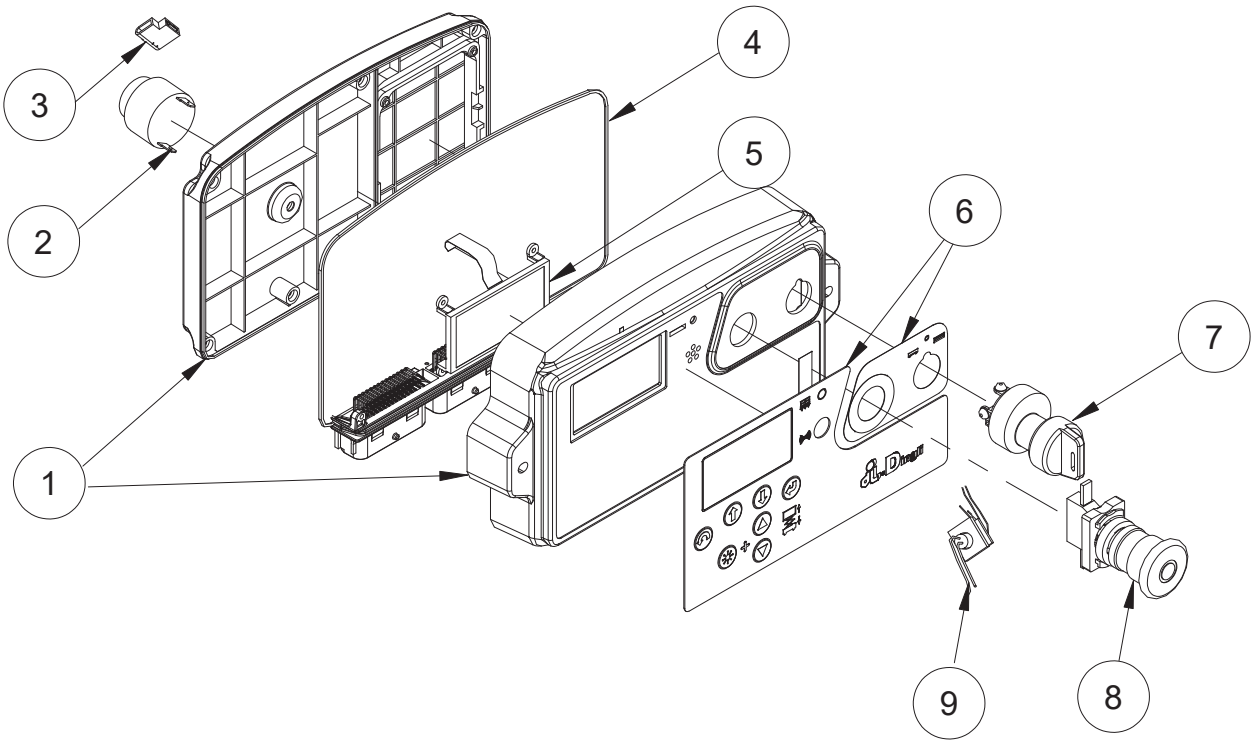

ILLUSTRATION No. ART_5870

Micro26AC

Ground Control Assembly

Item	Part Number	Description	Qty.
1	46258	Shell Components	1
2	41568	Alarm	1
--	43631	Alarm Nut	1
3	44691	Alarm Harness	1
4	44692	Main Board	1
5	44693	Display	1
6	44795	Decal, Ground Control Panel	1
7	41418	Key Switch	1
--	91574	Key	1
8	41157	Emergency Stop Switch	1
--	43632	Red Mushroom Head	1
--	43633	Base With 1 NO Contact	1
9	44694	EMS Switch Harness	1

Pump Motor Assembly

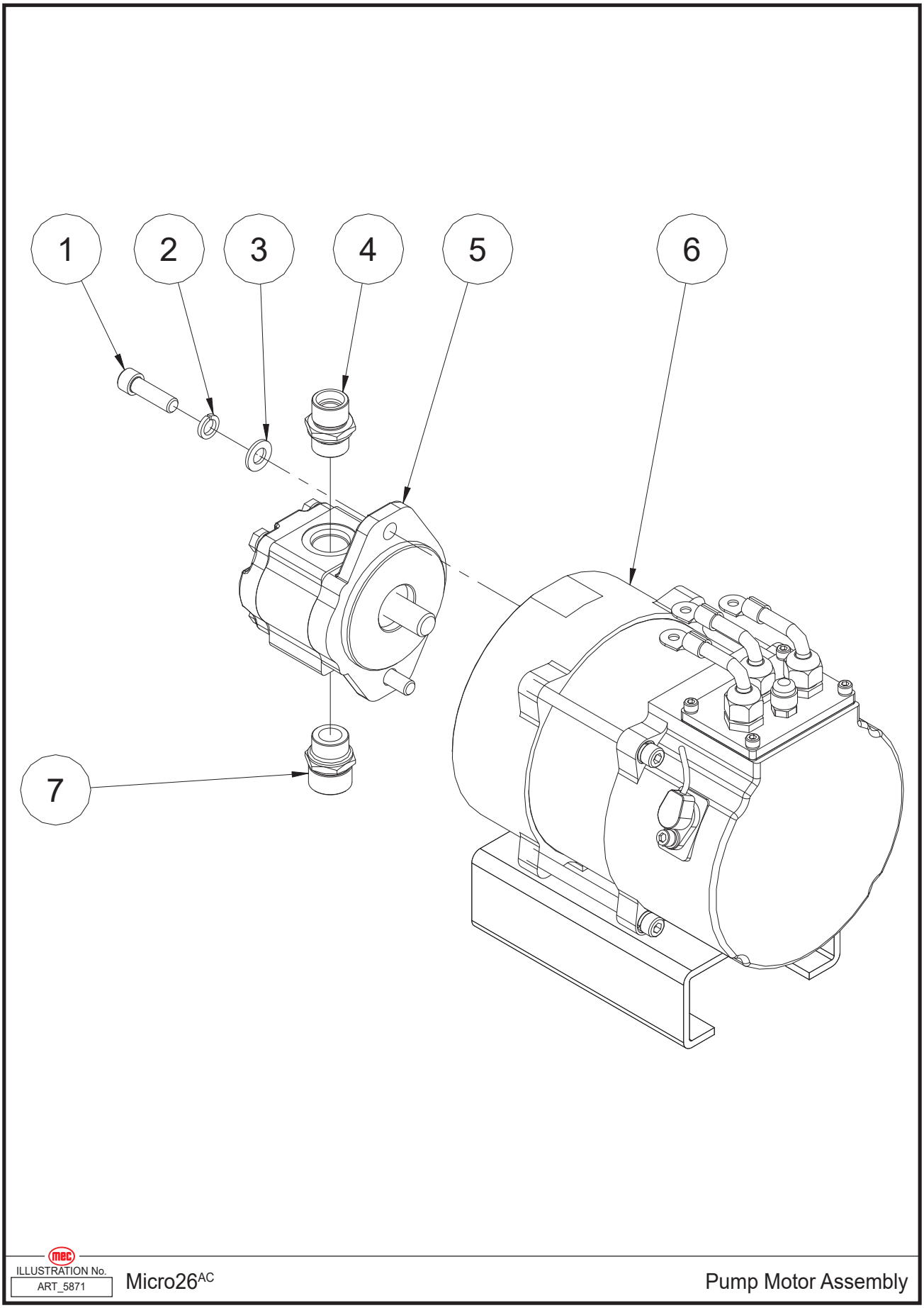

ILLUSTRATION No. ART_5871

Micro26AC

Pump Motor Assembly

Item	Part Number	Description	Qty.
1	53315	Screw SHCS 3/8-24 × 1 1/4	2
2	53054	WSHR M10 Spring Washer	2
3	50002	WSHR M10 Standard Flat Washer	2
4	43205	Straight Fitting	1
5	41426	Pump	1
6	46259	Motor	1
7	46260	Straight Fitting	1

Rear Wheel and Ladder

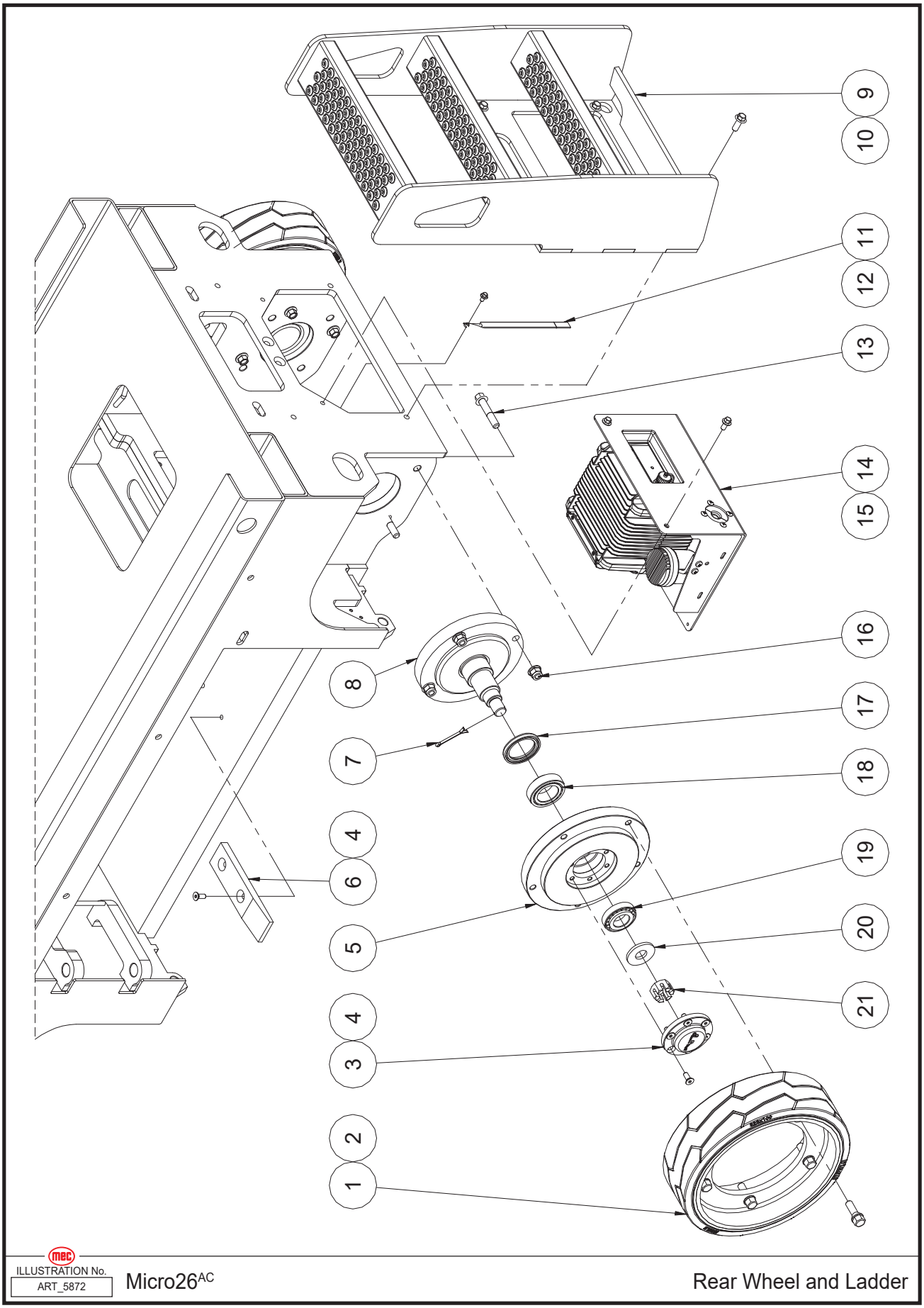

ILLUSTRATION No. ART_5872

Micro26AC

Rear Wheel and Ladder

Item	Part Number	Description	Qty.
1	46237	Wheel	2
2	46238	Bolt	10
3	41328	Cap	2
4	53282	Screw CSCS M08-1.25 × 20	16
5	41025	Bearing Seat	2
6	41002	Spacer	2
7	43585	Cotter Pin	2
8	43586	Spindle	2
9	46261	Ladder	1
10	50429	Screw HHCS M10-1.50 × 25 Serrated Flange	4
11	41003	Ground Strap	1
12	53260	Screw HHCS M06-1.00 × 10 Serrated Flange	1
13	53290	Screw HHCS M12-1.75 × 65 Flange	8
14	REF	Charger Assembly (Refer to page 71)	1
15	53194	Screw HHCS M08-1.25 × 16 Serrated Flange	2
16	53261	Nut NNYL M12-1.75 Flange	8
17	43588	Seal	2
18	41029	Bearing	2
19	41024	Bearing	2
20	41304	Washer	2
21	53262	Castle Nut M22 × 1.50	2

REF - Reference

Charger Assembly

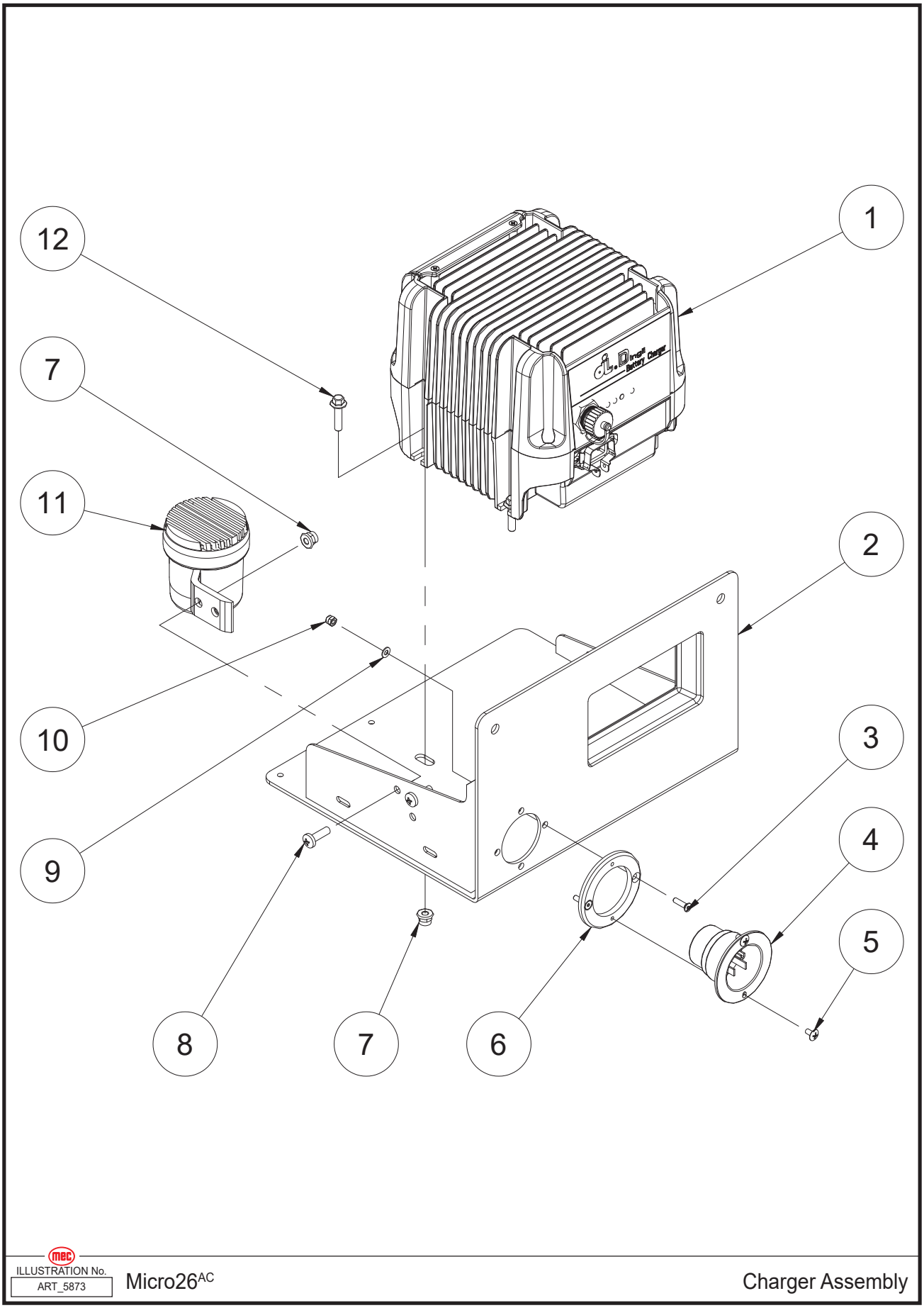

ILLUSTRATION No. ART_5873

Micro26AC

Charger Assembly

Item	Part Number	Description	Qty.
1	42903	Charger	1
2	46262	Charger Bracket Weldment	1
3	53221	Screw CSCS M04-0.70 × 16	2
4	41575	Plug	1
5	53263	Screw THMS M04-0.70 × 8	2
6	43591	Plug Bracket	1
7	50568	Nut NNYL M06-1.00 Flange	6
8	53264	Screw PHMS M06-1.00 × 20	2
9	50284	WSHR M04 Standard Flat Washer	2
10	50285	Nut NNYL M04 × 0.70	2
11	46263	Battery Alarm	1
12	53432	Screw HHCS M06-1.00 × 25 Serrated Flange	4

Chassis Accessory Installation

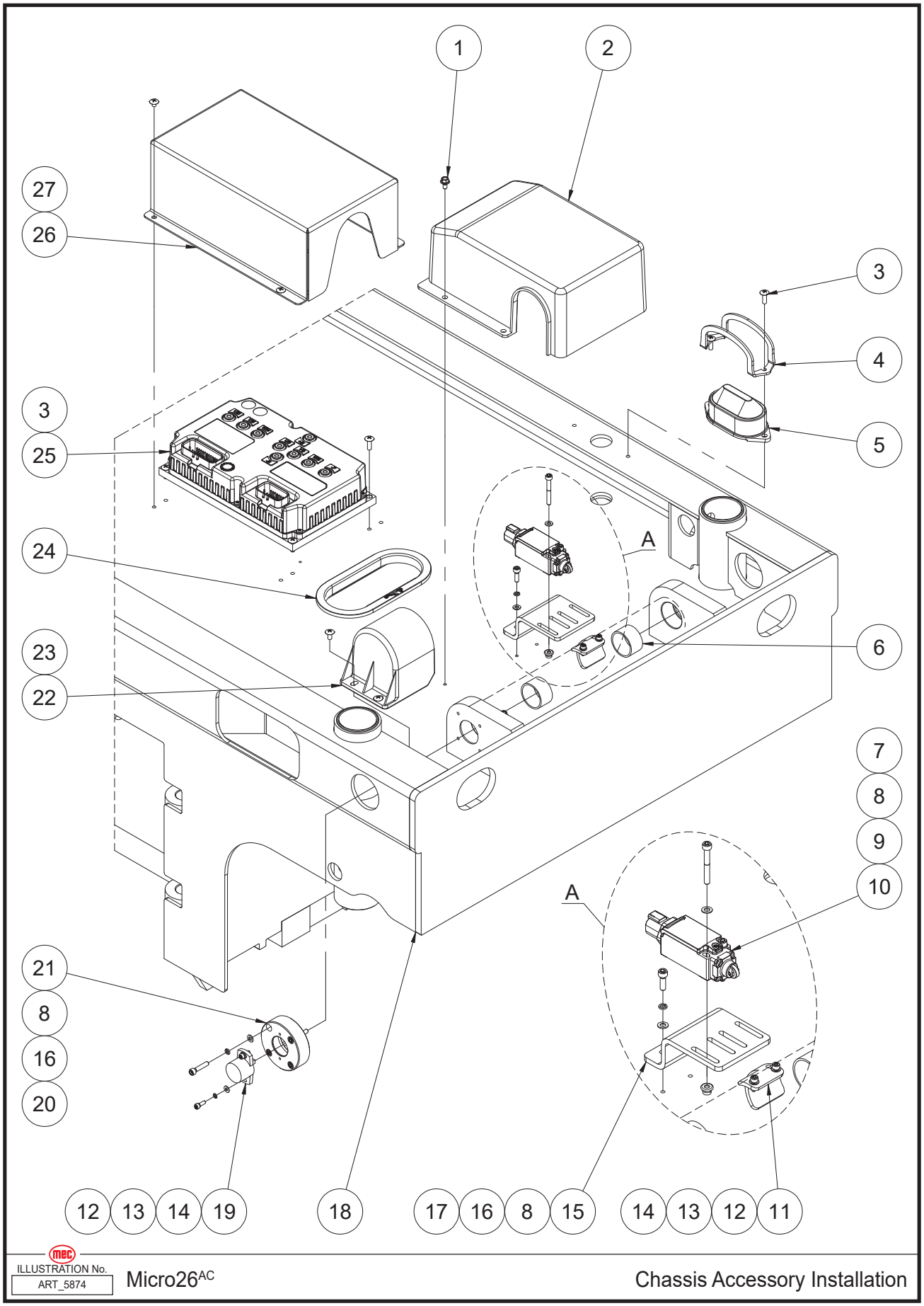

ILLUSTRATION No. ART_5874

Micro26AC

Chassis Accessory Installation

Item	Part Number	Description	Qty.
1	53449	Screw HHCS M05-0.80 × 10 Flange	4
2	44895	Cover	1
3	53223	Screw THMS M05-0.80 × 16	6
4	41309	Beacon Cover	1
5	46264	Beacon	1
6	41051	Bearing	2
7	53067	Screw SHCS M05-0.80 × 40	2
8	53038	WSHR M05 Standard Flat Washer	8
9	53281	Nut NNYL M05-0.80 Flange	2
10	46265	Limit Switch	1
11	43594	Signal Plate	1
12	50423	Screw SHCS M04-0.70 × 12	4
13	53062	WSHR M04 Spring Washer	4
14	50284	WSHR M04 Standard Flat Washer	4
15	43593	Switch Bracket	1
16	53043	WSHR M05 Spring Washer	6
17	50359	Screw SHCS M05-0.80 × 16	6
18	46266	Frame Weldment	1
19	46267	Rotary Sensor	1
20	53356	Screw SHCS M05-0.80 × 25	4
21	46268	Sensor Bracket	1
22	46269	Sensor Cover	1
23	53265	Screw THMS M05-0.80 × 10	2
24	46270	Sheath 2	1
25	46271	Motor Controller	1
26	46272	Cover	1
27	53266	Screw THMS M05-0.80 × 6	4

Scissor Assembly

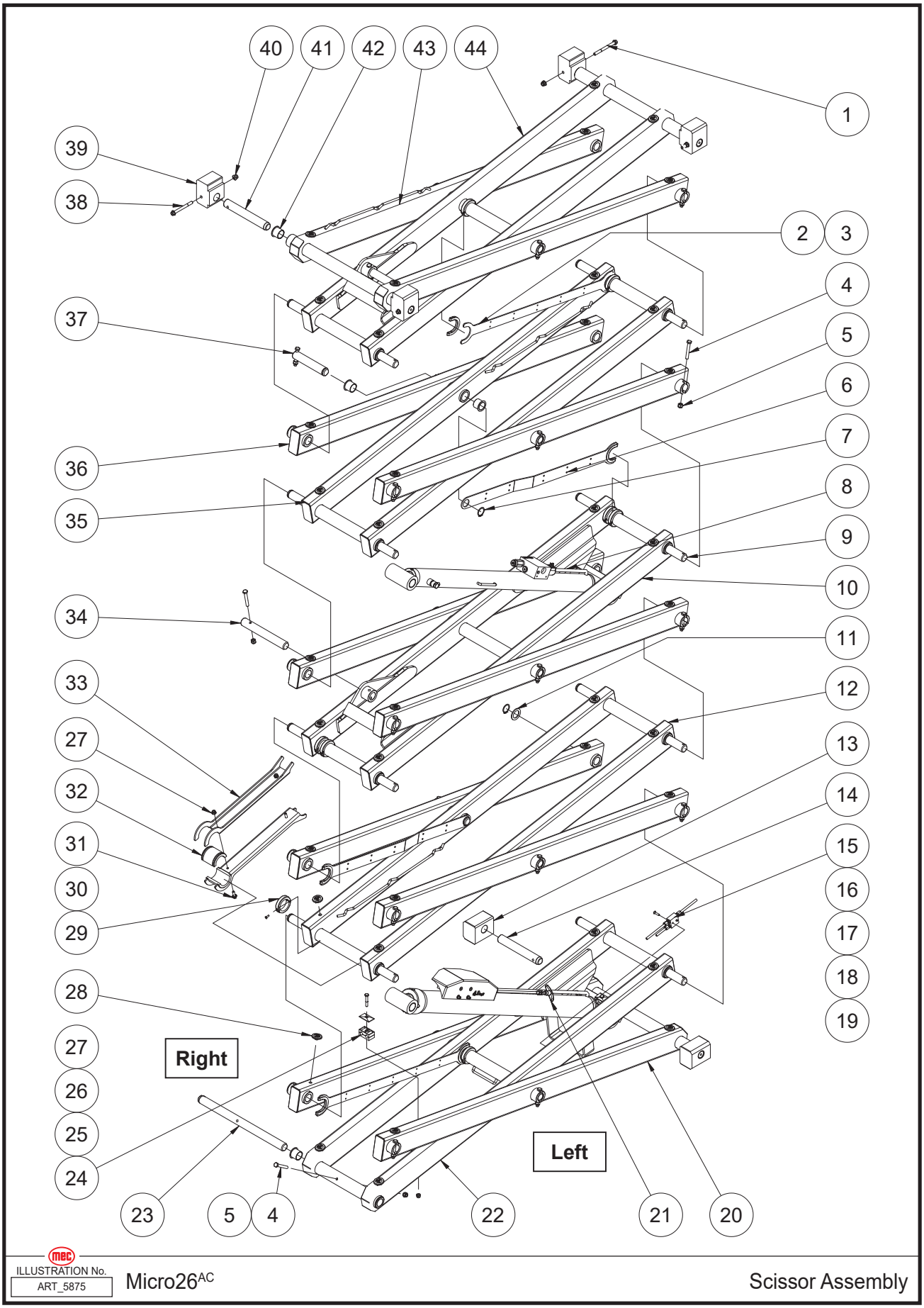

ILLUSTRATION No. ART_5875

Micro26AC

Scissor Assembly

Item	Part Number	Description	Qty.
1	53267	Screw HHCS M10-1.50 × 110 Flange	2
2	43595	Cable Bridge	2
3	44533	Clamp	6
4	50022	Screw HHCS M10-1.50 × 70	22
5	50049	Nut NNYL M10 × 1.50	22
6	43596	Cable Bridge	2
7	43597	Circlips	15
8	REF	Upper Lift Cylinder Assembly (Refer to page 91)	1
9	41686	Pin	11
10	46273	Inner Arm 3	1
11	41688	Washer	13
12	43599	Inner Arm 2	1
13	41710	Chassis Slider	2
14	41692	Pin	2
15	41112	Hydraulic Hoses Manifolds	1
16	50386	Screw CSCS M06-1.00 × 25	2
17	43600	Hose (To Lower Lift Cylinder)	1
18	43601	Hose (To Hydraulic Tank)	1
19	46274	Hose (To Upper Lift Cylinder)	1
20	43602	Outer Arm 1	1
21	REF	Lower Lift Cylinder Assembly (Refer to page 89)	1
22	46275	Inner Arm 1	1
23	46276	Pin	1
24	46277	Clamp	2
25	50015	Screw HHCS M08-1.25 × 50	2
26	41415	Clamp Plate	2
27	50313	Nut NNYL M08-1.25 Flange	4
28	41114	Block	40
29	44884	Collar	8
30	53269	Screw CSCS M05-0.80 × 16	8
31	53270	Screw HHCS M08-1.25 × 25 Serrated Flange	2
32	41616	Safety Arm Bushing	2
33	41615	Safety Arm	2
34	41687	Pin	4
35	43605	Inner Arm 4	1
36	43606	Outer Arm 2	3
--	46278	Left Single Link	1
--	46279	Right Single Link	1
37	41689	Pin	4
38	53271	Screw HHCS M10-1.50 × 100 Flange	2
39	43607	Platform Slider	4
40	50311	Nut NNYL M10-1.50 Flange	4
41	41685	Pin	4
42	41706	Bearing	36
43	43608	Outer Arm 4	1

44	43609	Inner Arm 5	1

REF - Reference

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Main Platform Assembly

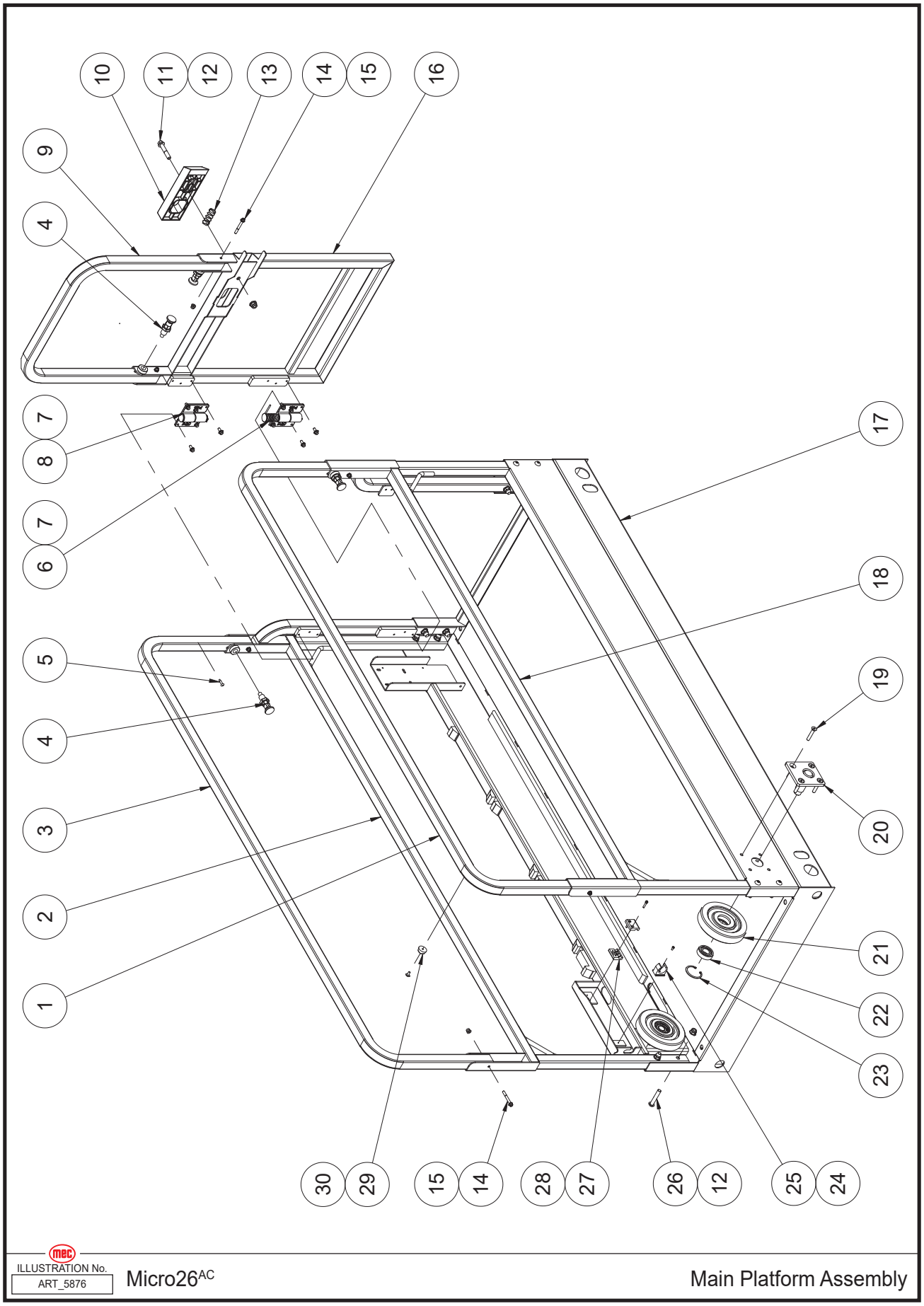


ILLUSTRATION No. ART_5876

Micro26AC

Main Platform Assembly

Item	Part Number	Description	Qty.
1	46280	Upper Main Rail, Left	1
2	46281	Lower Main Rail, Right	1
3	46282	Upper Main Rail, Right	1
4	43337	Lock Pin	4
5	43301	Rivet	1
6	41128	Hinge B	1
7	53273	Screw HHCS M06-1.00 × 14 Serrated Flange	12
8	41127	Hinge A	1
9	43613	Door Rail	1
10	41124	Latch Handle	1
11	53272	Screw HHCS M10-1.50 × 55 Flange	1
12	50311	Nut NNYL M10-1.50 Flange	13
13	41125	Spring	1
14	53274	Screw HHCS M06-1.00 × 50 Flange	6
15	50568	Nut NNYL M06-1.00 Flange	6
16	43614	Entry Gate	1
17	46283	Main Deck Weldment	1
18	46284	Lower Main Rail, Left	1
19	53275	Screw CSCS M08-1.25 × 45	8
20	41360	Roller Bracket	2
21	43617	Roller	2
22	41131	Bearing	2
23	43618	Circlips	2
24	53276	Screw PHMS M04-0.70 × 8	1
25	41134	Clip	1
26	53277	Screw BHCS M10-1.50 × 55	12
27	41059	Wire Clip	2
28	53278	Screw SHCS M04-0.70 × 20	2
29	41120	Bumper	1
30	53224	Screw THMS M05-0.80 × 12	1

Platform Extension Assembly

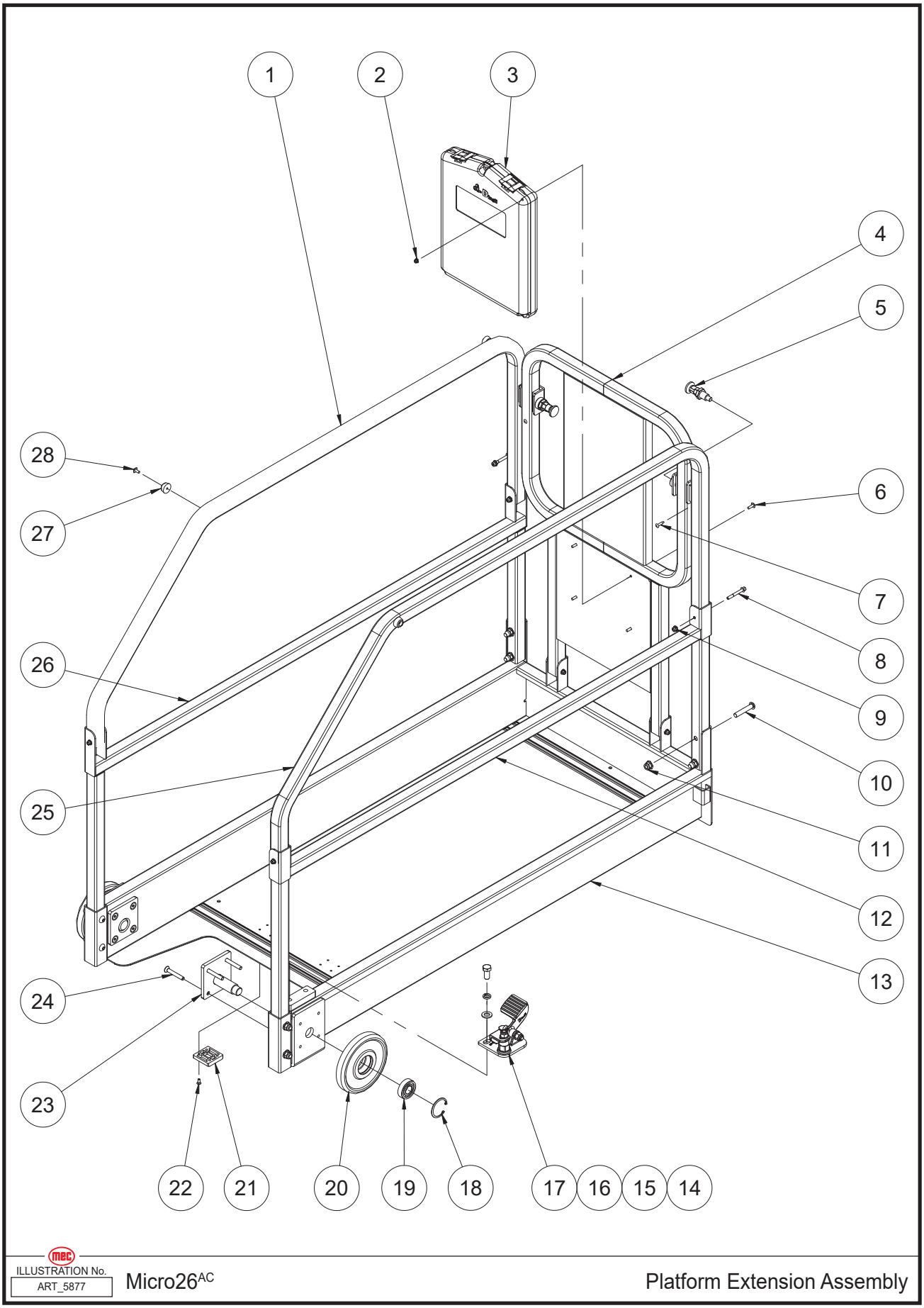


ILLUSTRATION No. ART_5877 Micro26AC Platform Extension Assembly

Item	Part Number	Description	Qty.
1	46285	Upper Extension Rail, Left	1
2	53281	Nut NNYL M05-0.80 Flange	4
3	43319	Manual Box	1
4	46286	Front Rail	1
5	43337	Inserted Pin	2
6	53223	Screw THMS M05-0.80 × 16	4
7	43301	Rivet	2
8	53274	Screw HHCS M06-1.00 × 50 Flange	7
9	50568	Nut NNYL M06-1.00 Flange	7
10	53277	Screw BHCS M10-1.50 × 55	8
11	50311	Nut NNYL M10-1.50 Flange	8
12	41626	Lower Extension Rail, Right	1
13	46287	Extension Deck Weldment	1
14	50038	Screw HHCS M12-1.50 × 25	2
15	53148	WSHR M12 Spring Washer	2
16	50003	WSHR M12 Standard Flat Washer	2
17	REF	Platform Locking Device Assembly (Refer to page 83)	1
18	43618	Circlips	2
19	41131	Bearing	2
20	41141	Roller	2
21	41284	Slide Pad	2
22	53279	Screw CSCS M05-0.80 × 12	8
23	41360	Roller Bracket	2
24	53280	Screw CSCS M08-1.25 × 55	8
25	46288	Upper Extension Rail, Right	1
26	41625	Lower Extension Rail, Left	1
27	41120	Bumper	3
28	53224	Screw THMS M05-0.80 × 12	3

REF - Reference

Platform Locking Device Assembly

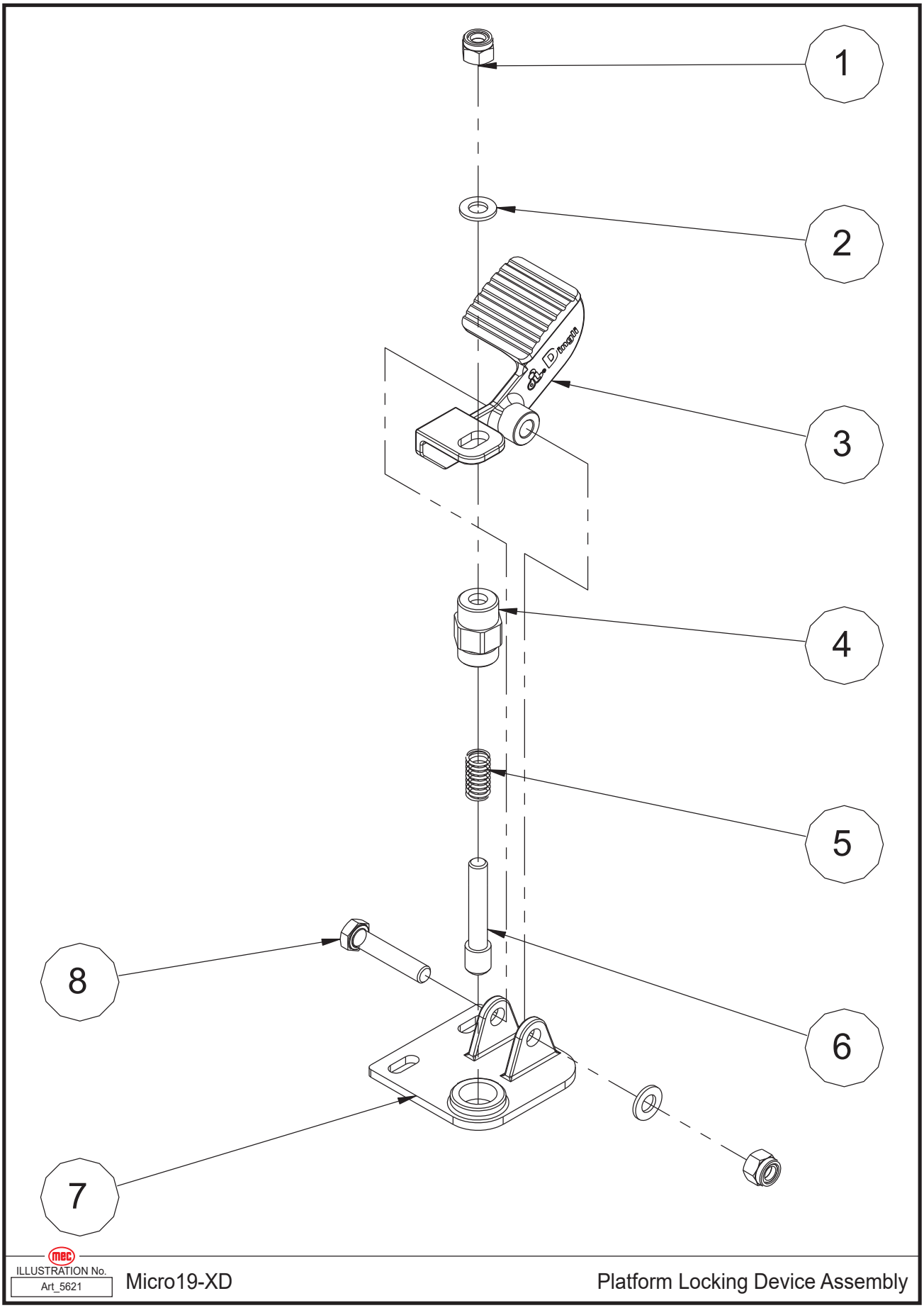


ILLUSTRATION No. Art_5621 Micro19-XD Platform Locking Device Assembly

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 × 50	1

Platform Control Assembly

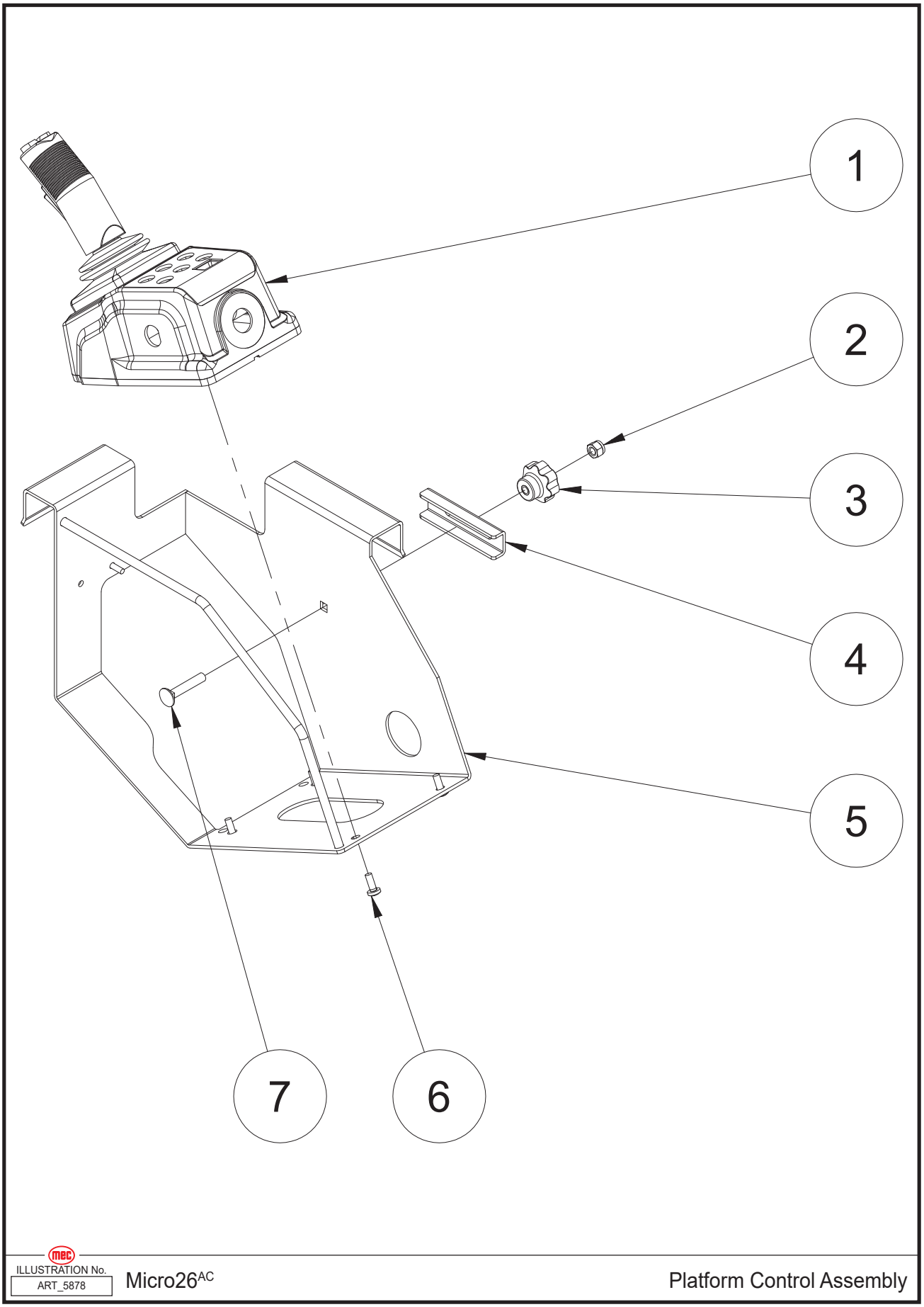


ILLUSTRATION No. ART_5878

Micro26AC

Platform Control Assembly

Item	Part Number	Description	Qty.
1	46315	Platform Control Box Assembly (Refer to page 87)	1
2	50048	Nut NNYL M08 × 1.25	1
3	42501	Handle	1
4	42500	Locating Plate	1
5	41764	Platform Control Box Mount Bracket	1
6	53231	Screw PHMS M06-1.00 × 16	4
7	53248	Screw CARB M08-1.25 × 45	1

Platform Control Box Assembly

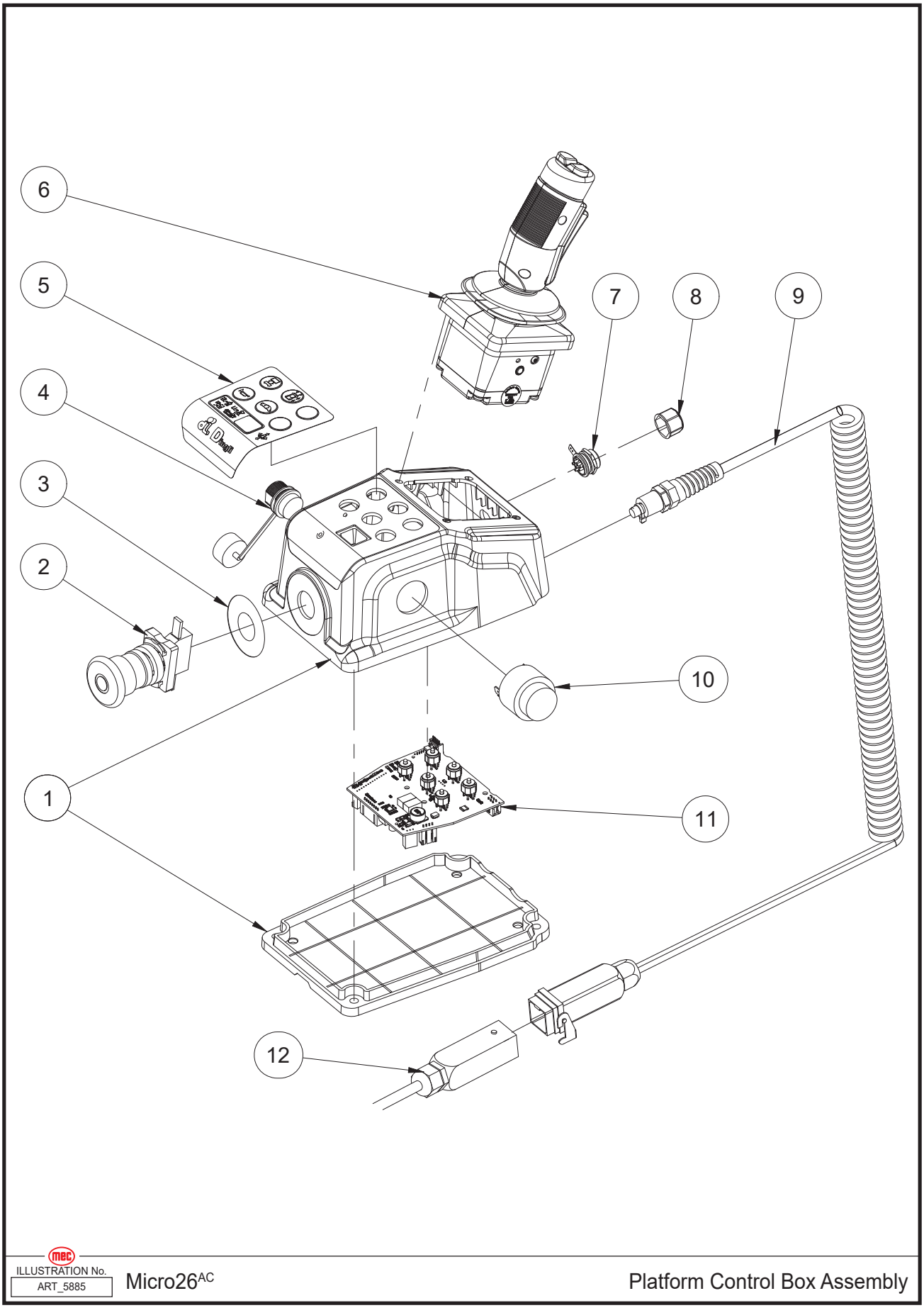


ILLUSTRATION No. ART_5885

Micro26AC

Platform Control Box Assembly

Item	Part Number	Description	Qty.
1	44768	Shell Components	1
2	41157	Emergency Stop Switch	1
--	43632	Red Mushroom Head	1
--	43633	Base With 1 NO Contact	1
3	42915	Decal, Emergency Stop Panel	1
4	44769	USB Cable	1
5	44797	Decal, Platform Control Panel	1
6	46289	Joystick	1
--	43621	Function Enable Switch	1
--	46290	Joystick Cover	1
--	43622	Joystick Steer Switch	1
--	43623	Switch Boot	1
7	44770	Connector	1
8	44771	Connector Cap	1
9	44772	Coil Cord	1
--	44773	Hood	1
--	44774	Female Insert	1
--	44775	Female Contacts	5
--	43627	Cable Gland	1
10	41568	Alarm	1
--	43631	Alarm Nut	1
11	44776	PCU Main Board	1
12	46291	Platform Control Box Harness	1
--	44778	Housing	1
--	44779	Male Insert	1
--	44780	Male Contacts	5
--	43627	Cable Gland	1

Lower Lift Cylinder Assembly

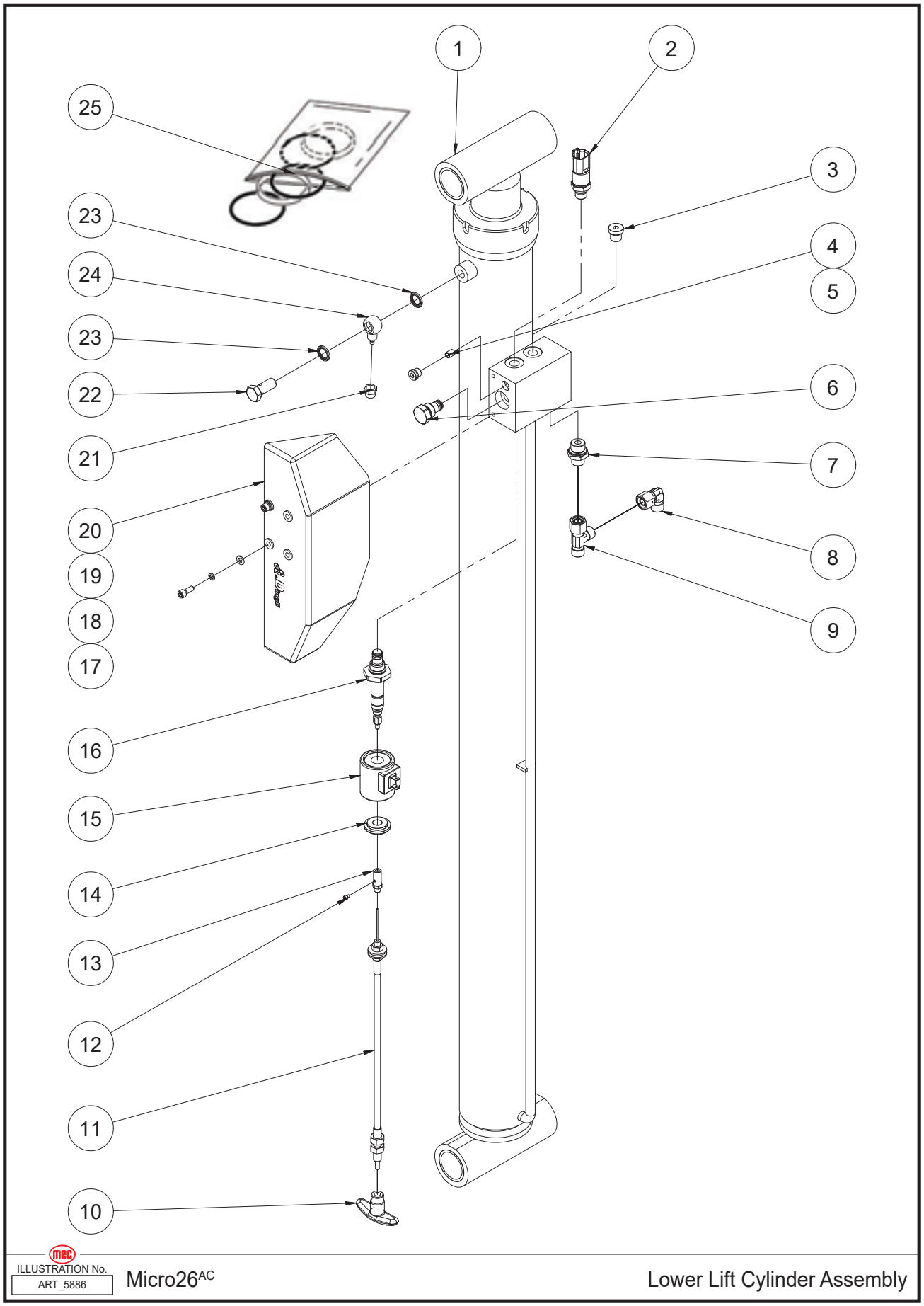


ILLUSTRATION No. ART_5886

Micro26AC

Lower Lift Cylinder Assembly

Item	Part Number	Description	Qty.
1	43636	Lower Lift Cylinder	1
2	44448	Pressure Sensor	1
3	42480	Plug	1
4	43637	Orifice	1
5	42821	Plug	1
6	43369	Check Valve	1
7	43638	Straight Fitting	1
8	43639	Elbow	1
9	43640	Tee Fitting	1
10	41162	Lowering Knob	1
11	41832	Emergency Down Cable Assembly	1
12	50423	Screw SHCS M04-0.70 × 12	1
13	43365	Cable Connector	1
14	43364	Nut	1
15	41550	Coil	1
16	41363	Solenoid Valve Spool	1
17	53138	Screw SHCS M06-1.00 × 16	2
18	53046	WSHR M06 Spring Washer	2
19	50000	WSHR M06 Standard Flat Washer	2
20	41164	Valve Cover	1
21	41413	Nut	1
22	41166	Fitting	1
23	43361	Washer	2
24	41167	Fitting	1
25	41630	Seal Kit	1

Upper Lift Cylinder Assembly

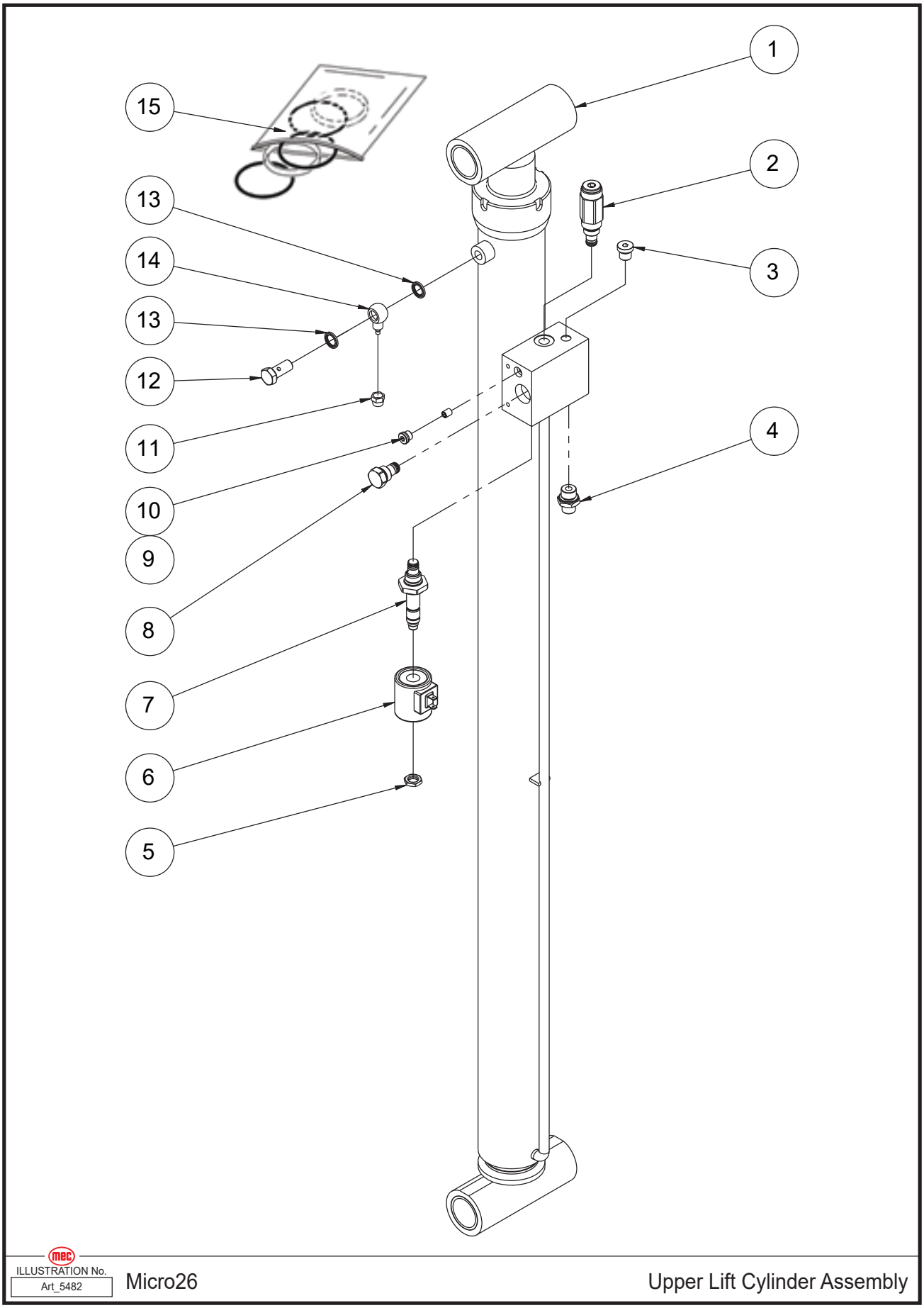


ILLUSTRATION No. Art_5482 Micro26 Upper Lift Cylinder Assembly

Item	Part Number	Description	Qty.
1	43641	Upper Lift Cylinder	1
2	41169	Relief Valve	1
3	42480	Plug	1
4	43638	Straight Fitting	1
5	42795	Nut	1
6	41551	Coil	1
7	43372	Solenoid Valve Spool	1
8	43369	Check Valve	1
9	43374	Orifice	1
10	42821	Plug	1
11	41413	Nut	1
12	41166	Fitting	1
13	43361	Washer	2
14	41167	Fitting	1
15	43642	Seal Kit	1

Function Manifold

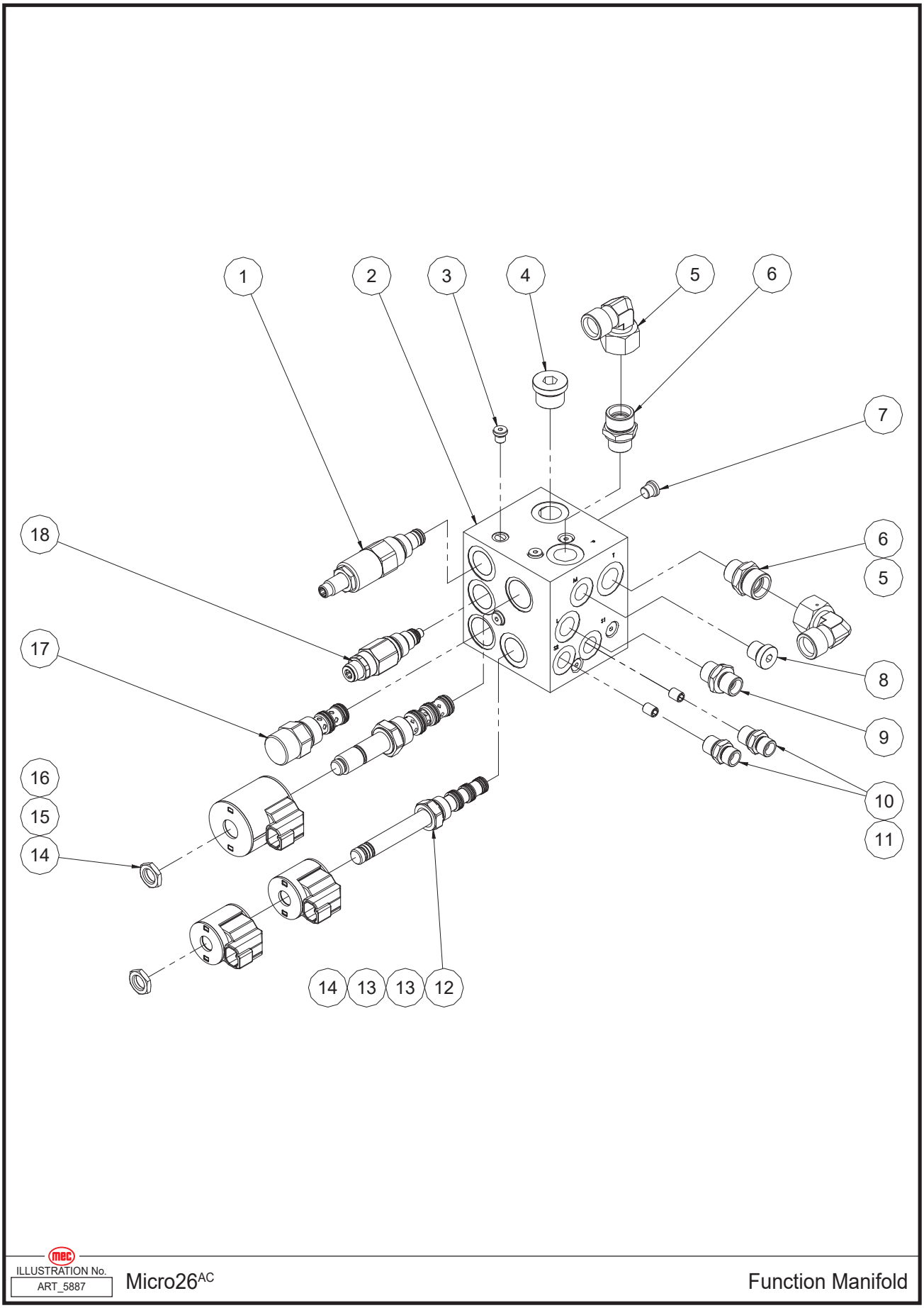


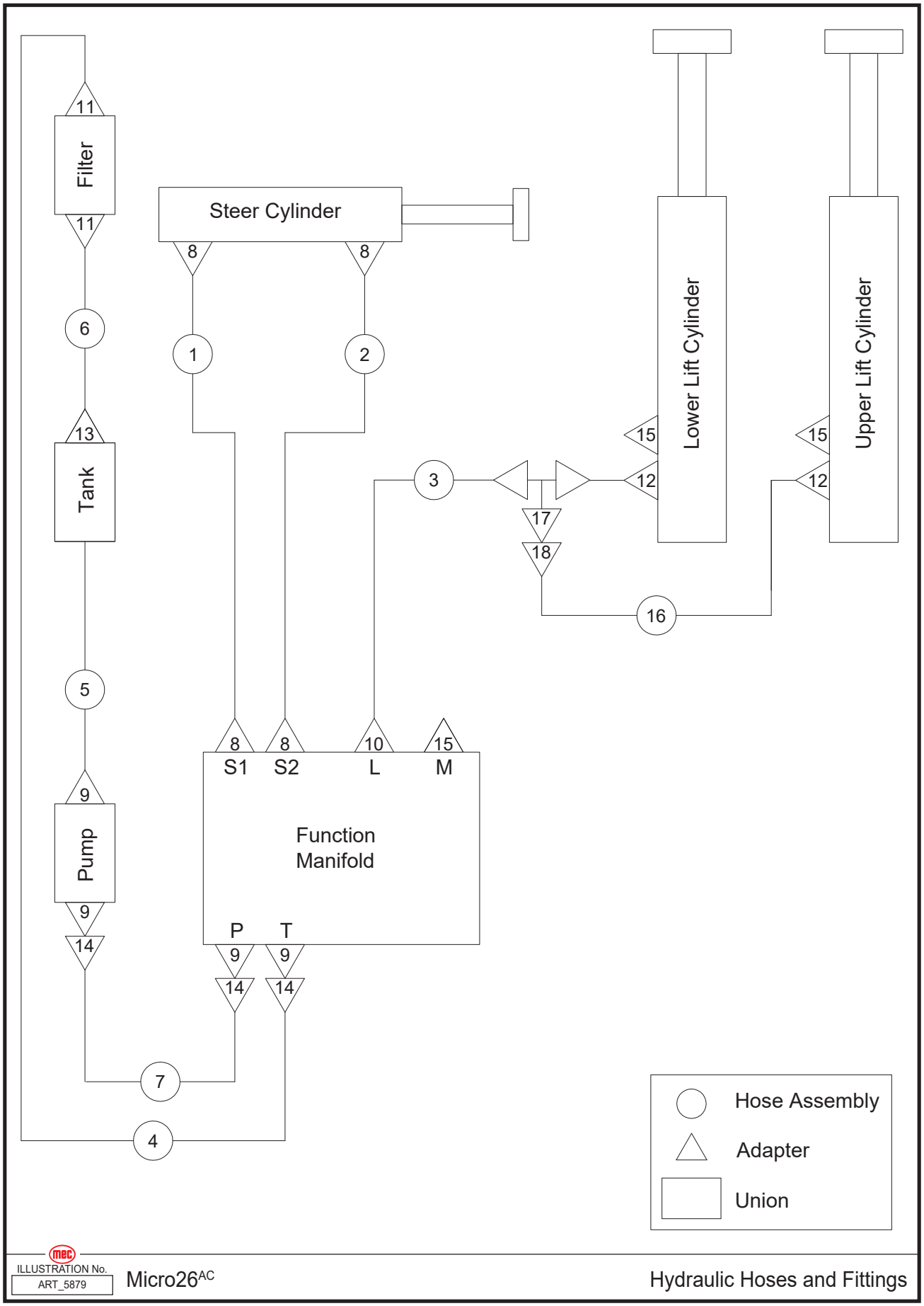
ILLUSTRATION No. ART_5887

Micro26AC

Function Manifold

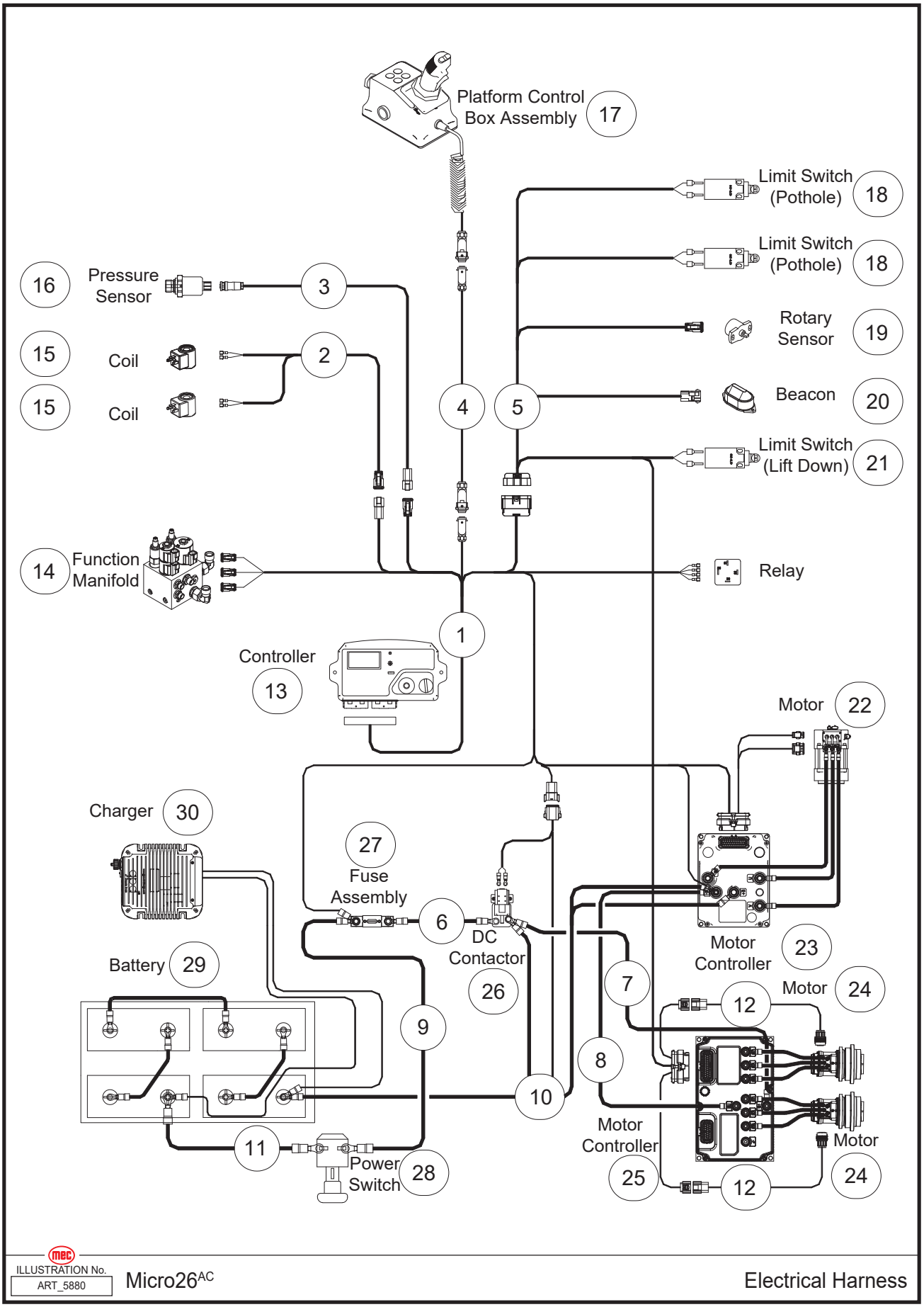
Item	Part Number	Description	Qty.
1	46292	Relief Valve	1
2	46293	Valve Body	1
3	43465	Plug	13
4	43079	Plug	1
5	43206	Elbow	2
6	43582	Straight Fitting	2
7	43643	Plug	3
8	42480	Plug	1
9	43644	Straight Fitting	1
10	43076	Straight Fitting	2
11	43645	Orifice	2
12	41537	Solenoid Valve Spool	1
13	46294	Coil	2
14	42795	Nut	2
15	46295	Coil	1
16	41548	Solenoid Valve Spool	1
17	46296	Flow Control Valve	1
18	46297	Relief Valve	1

Hydraulic Hoses and Fittings



Item	Part Number	Description	Qty.
1	41839	Hose Assembly	1
2	43709	Hose Assembly	1
3	44915	Hose Assembly	1
4	46298	Hose Assembly	1
5	46299	Hose Assembly	1
6	46300	Hose Assembly	1
7	46301	Hose Assembly	1
8	43076	Straight Fitting	4
9	43582	Straight Fitting	4
10	43644	Straight Fitting	1
11	43576	Straight Fitting	2
12	43638	Straight Fitting	2
13	41085	Fitting	1
14	43206	Elbow	4
15	42480	Plug	3
16	44249	Hose Assembly	1
17	43640	Tee Fitting	1
18	43639	Elbow	1

Electrical Harness, To Serial #17900458



Item	Part Number	Description	Qty.
1	46302	ECU Harness	1
2	46303	Lowering Valve Harness	1
3	46304	Pressure Sensor Harness	1
4	46291	Platform Control Box Harness	1
5	46305	Limit Switch and Drive Motor Harness	1
6	46306	Power Harness	1
7	46307	Power Harness	1
8	46308	Power Harness	1
9	46309	Power Harness	1
10	46310	Power Harness	1
11	46311	Power Harness	1
12	46312	Drive Motor Encoder Harness	2
13	46313	Ground Control Assembly	1
14	46314	Function Manifold	1
15	41550	Coil, Lift Down	1
16	44448	Pressure Sensor	1
17	46315	Platform Control Box Assembly	1
18	46242	Limit Switch, Pothole	2
19	46267	Rotary Sensor	1
20	46264	Beacon	1
21	46265	Limit Switch, Lift Down	2
22	46259	Motor	1
23	46250	Motor Controller	1
24	46233	Drive Motor Assembly, Silver Motors	2
25	46271	Motor Controller	1
26	41331	DC Contactor	1
27	46246	250A Fuse	1
28	46245	Power Switch	1
29	44893	Battery	4
30	42903	Charger	1

Electrical Harness, From Serial #17900459

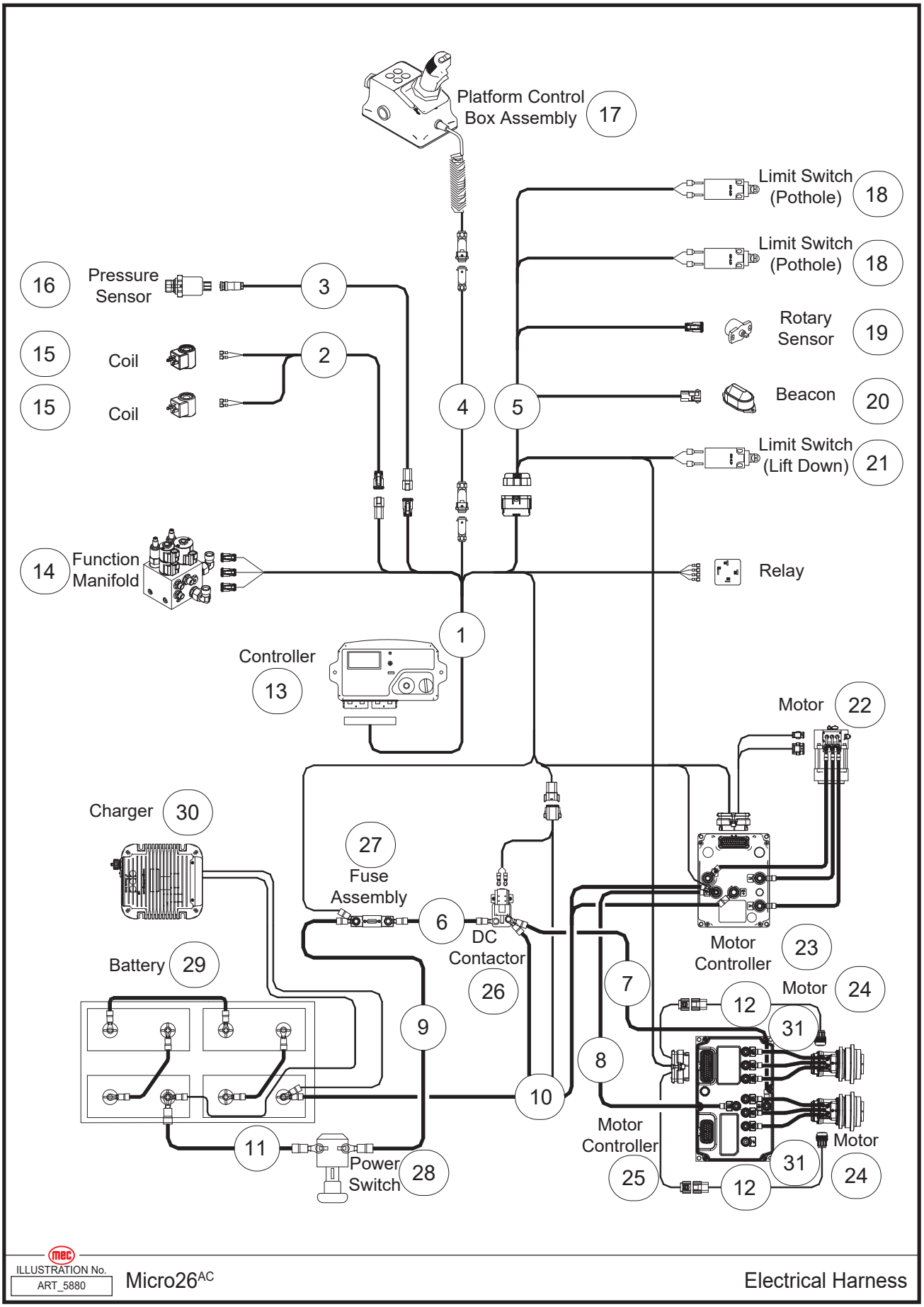


ILLUSTRATION No. ART_5880

Micro26AC

Electrical Harness

Item	Part Number	Description	Qty.
1	46302	ECU Harness	1
2	46303	Lowering Valve Harness	1
3	46304	Pressure Sensor Harness	1
4	46291	Platform Control Box Harness	1
5	46305	Limit Switch and Drive Motor Harness	1
6	46306	Power Harness	1
7	46307	Power Harness	1
8	46308	Power Harness	1
9	46309	Power Harness	1
10	46310	Power Harness	1
11	46311	Power Harness	1
12	--	--	--
13	46313	Ground Control Assembly	1
14	46314	Function Manifold	1
15	41550	Coil, Lift Down	1
16	44448	Pressure Sensor	1
17	46315	Platform Control Box Assembly	1
18	46242	Limit Switch, Pothole	2
19	46267	Rotary Sensor	1
20	46264	Beacon	1
21	46265	Limit Switch, Lift Down	2
22	46259	Motor	1
23	46250	Motor Controller	1
24	47483	Drive Motor Assembly, Black Motors	2
25	46271	Motor Controller	1
26	41331	DC Contactor	1
27	46246	250A Fuse	1
28	46245	Power Switch	1
29	44893	Battery	4
30	42903	Charger	1
31	47482	Drive Motor Harness	2

Power to Platform

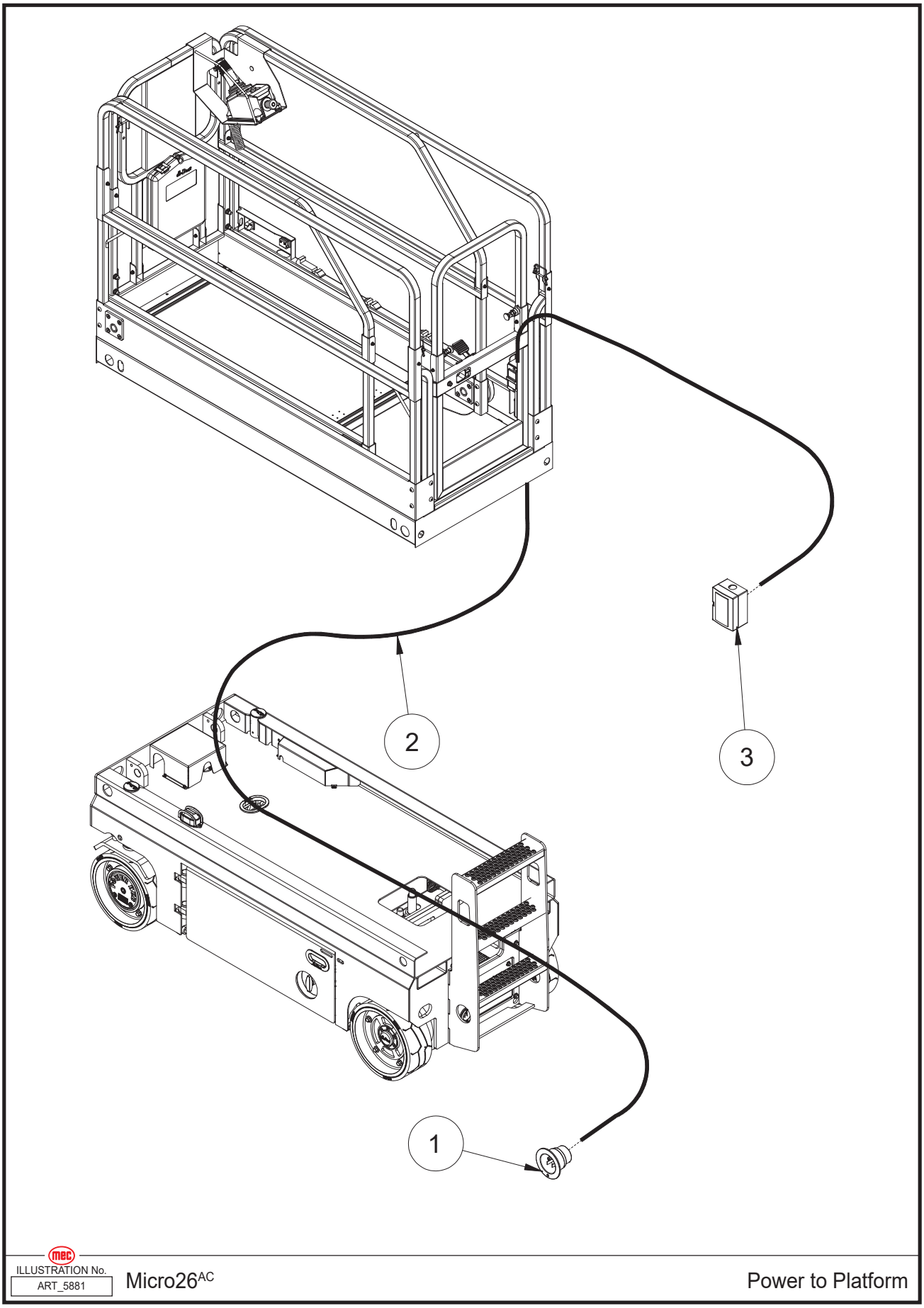


ILLUSTRATION No. ART_5881

Micro26AC

Power to Platform

Item	Part Number	Description	Qty.
1	REF	AC Plug (Refer to page 71)	1
2	43721	Wire Cable, Platform AC Power	1
3	42613	AC socket	1

REF - Reference

Leak Containment System

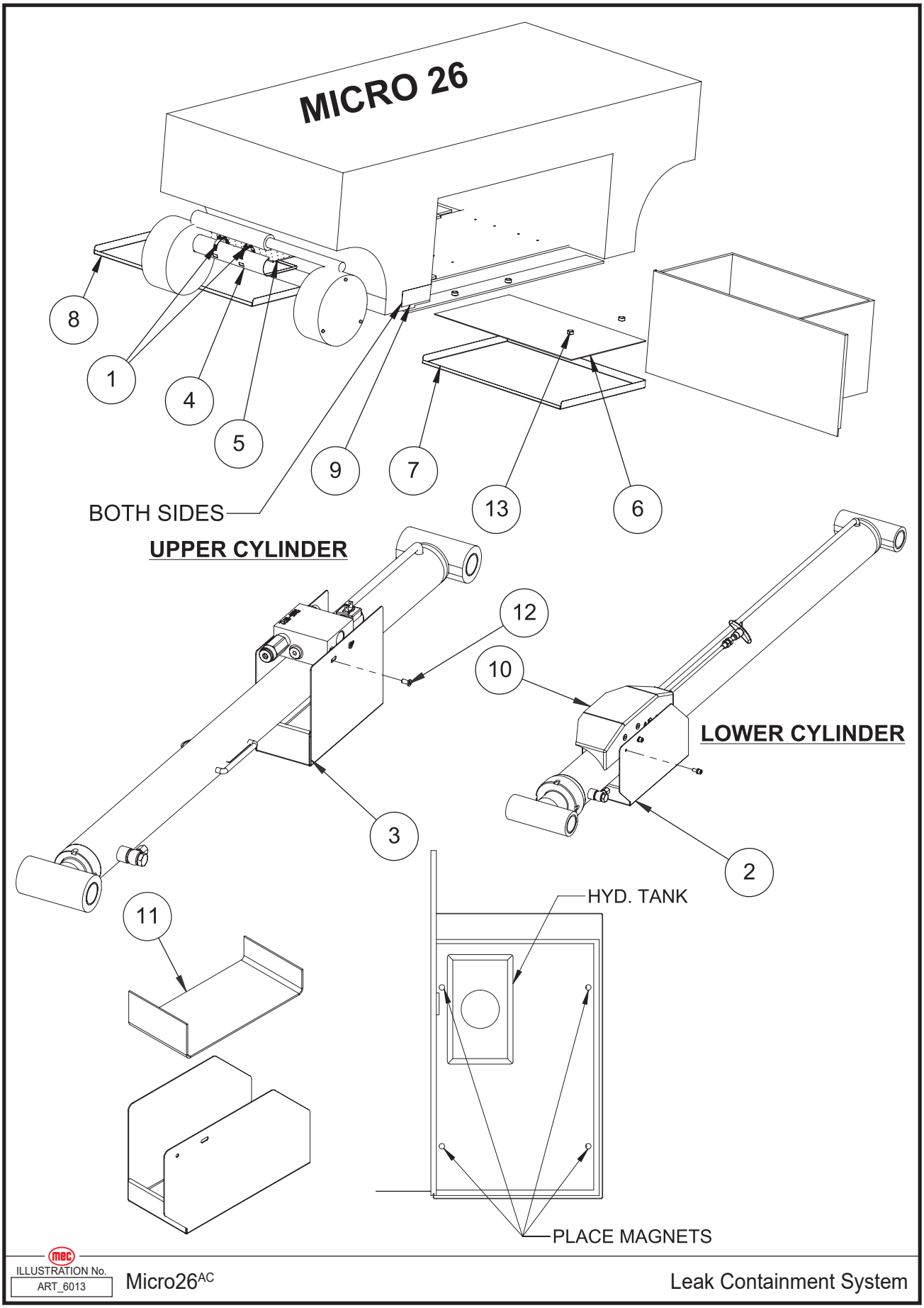


ILLUSTRATION No. ART_6013

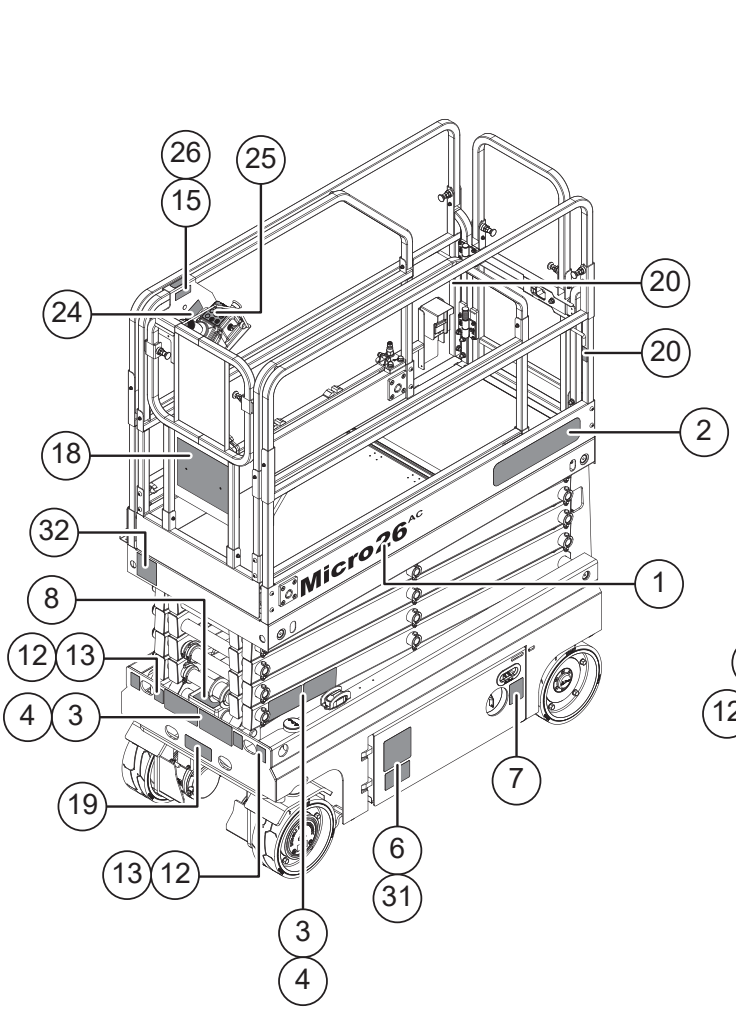
Micro26AC

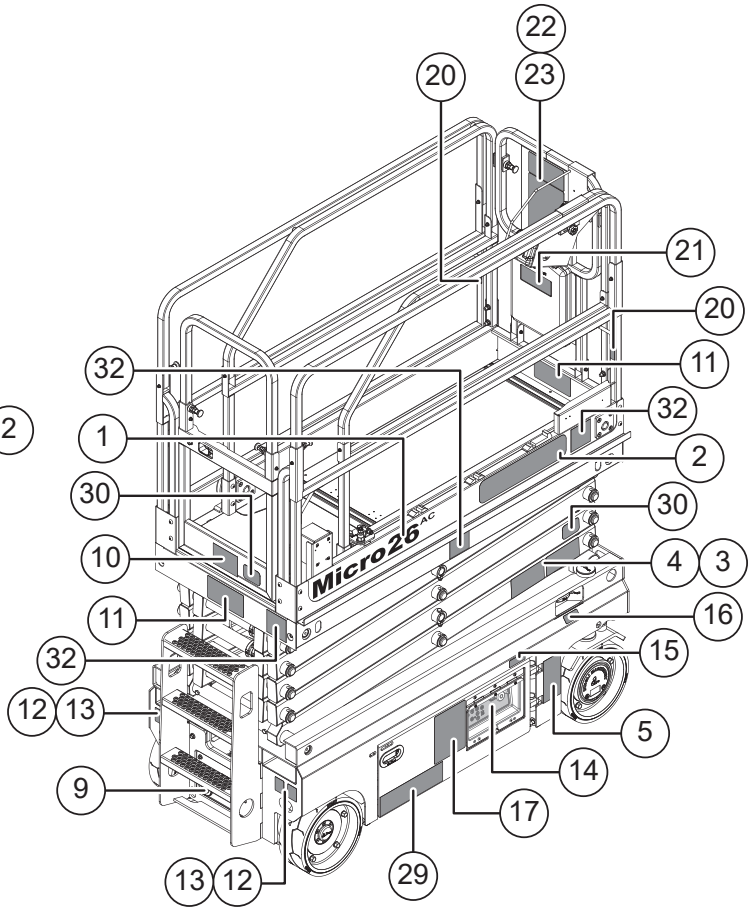
Leak Containment System

Item	Part Number	Description	Qty.
1	7545	Clamp Hose #28 1 5/16-2 1/4	2
2	18679	Cylinder Guard Universal - Large Slabs	1
3	31415	Upper Cylinder Guard	1
4	42926	Steer Cylinder Containment Tray 1930	1
5	**42932**	**Absorbent Pad For Steer Cylinder (MICRO 19/1330)**	**1**
6	**42935**	**Absorbent Pad For Micro 19**	**2**
7	42968	Leak Containment Tray Battery Side (1930)	1
8	42976	Leak Containment Tray Control Side (MICRO 26)	1
9	43916	UHMW Black Guard Strip 1930 & MICRO 26	2
10	44238	Cylinder Guard Hose Wrap	2
11	**44266**	**Absorbent Pad, Cylinder Guards**	**2**
12	53370	SHCS M6 X 10 BLACK Oxide Ultra Lo Profile	2
13	95048	Magnet 30 LB (Max Pull Force)	8
14	A0005	LOCTITE 565	REF

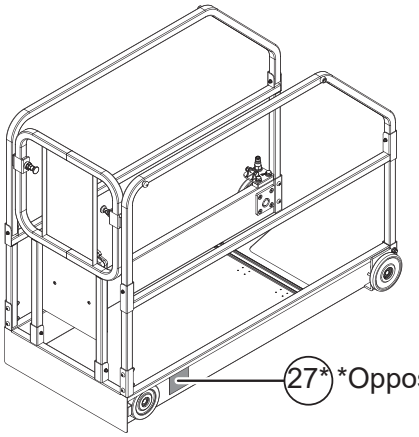
REF - Reference

Decals



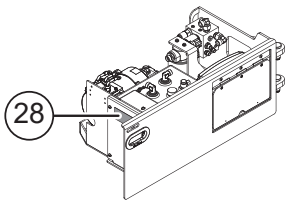


PLATFORM DECK EXTENDED



*Opposite side also.

POWER UNIT MODULE



1

Micro26AC

95932 Qty. - 2

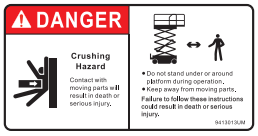
2

94114 Qty. - 2

3

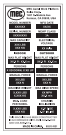
41748 Qty. - 3

4



41646 Qty. - 3

5



95215 Qty. - 1

6

41641 Qty. - 1

7

41666 Qty. - 1

8

41642 Qty. - 1

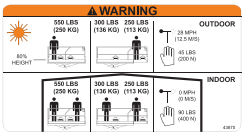
9

94659 Qty. - 1

10

95301 Qty. - 1

11



43870 Qty. - 2

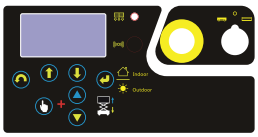
12

41635 Qty. - 4

13

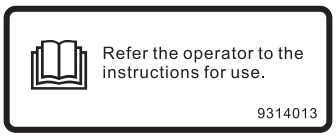
41634 Qty. - 4

14



44795 Qty. - 1

15



41639 Qty. - 2

16

41636 Qty. - 1

17

41649 Qty. - 1

18

90719 Qty. - 1

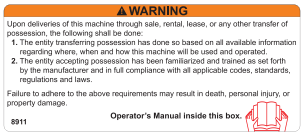
19

94423 Qty. - 1

20

41648 Qty. - 4

21

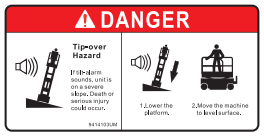


8911 Qty. - 1

22

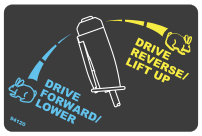
41749 Qty. - 1

23



41647 Qty. - 1

24



94120 Qty. - 1

25

44797 Qty. - 1

26

41640 Qty. - 1

27

91850 Qty. - 2

28

90732 Qty. - 1

29

43879 Qty. - 1

30

95255 Qty. - 2

31

47370 Qty. - 1

32

46450 Qty. - 4

Notes

Notes

MEC Parts Order Form

Phone: 559-842-1523
Fax: 559-400-6723
Email: Parts@mecawp.com

Please Fill Out Completely:

Date: _____ **Ordered By:** _____
Account: _____ **Your Fax No.:** _____
Bill to: _____ **Ship to:** _____
_____ _____
_____ _____

Purchase Order Number _____ **Ship VIA** _____

*** All orders MUST have a Purchase Order Number*

***Fed Ex shipments require Fed Ex account number*

Part Number	Description	Quantity	Price

All back-ordered parts will be shipped when available via the same ship method as original order unless noted below:

_____ Ship complete order only - No Backorders
_____ Ship all available parts and contact customer on disposition of back-ordered parts
_____ Other (Please specify)

Signature _____

Limited Owner Warranty

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.

MEC Aerial Work Platforms

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