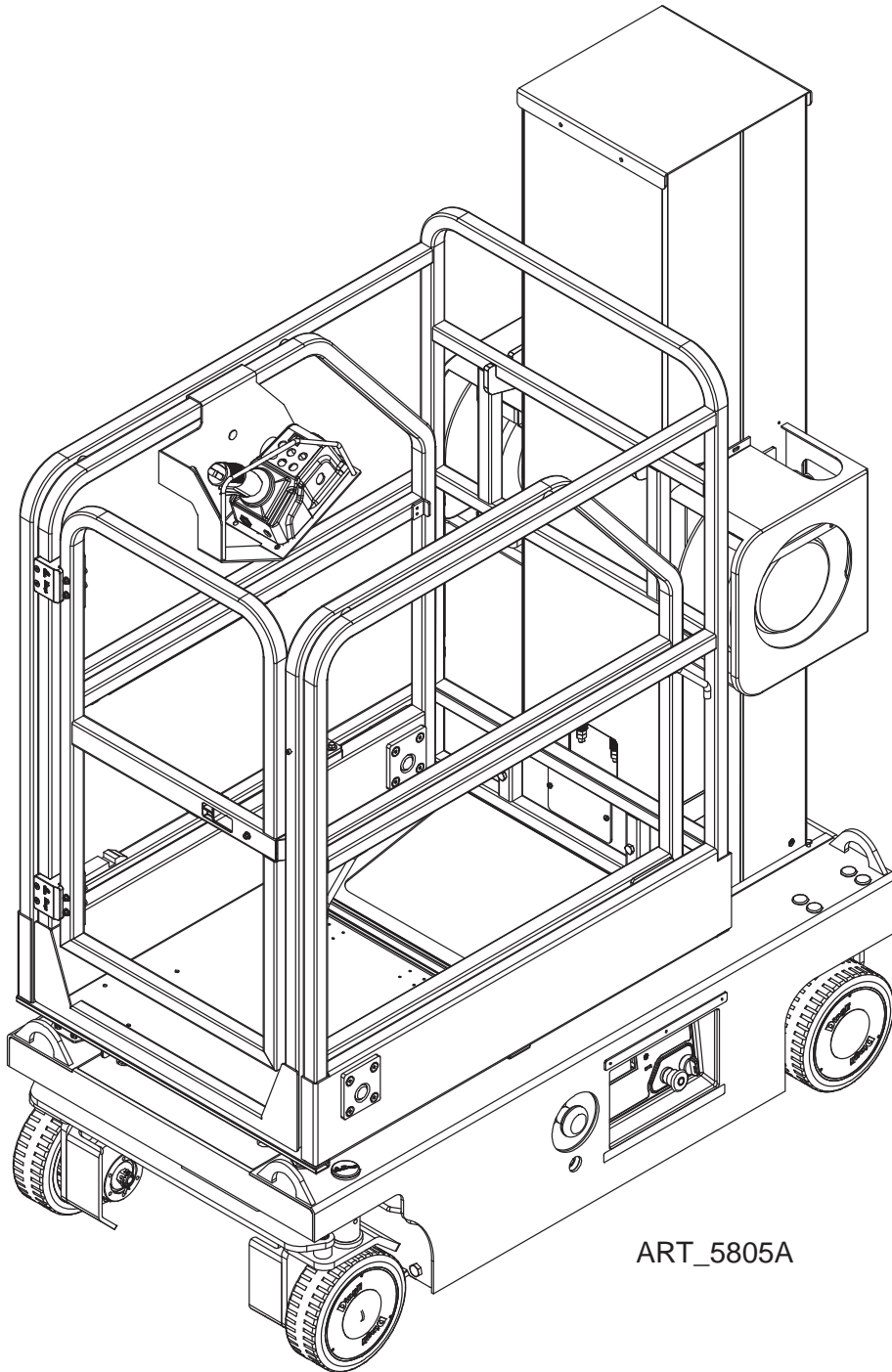




Service & Parts Manual

MMAE16



ART_5805A

Serial Number Range
17400000 - Up

Part # 95811
August 2024

Revision History

Date	Reason for Update
April 2022	New Release



MEC Aerial Work Platforms

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Service Introduction

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

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

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

MEC Operator Policy

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

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



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

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

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

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

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

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



MEC Aerial Work Platforms

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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.



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



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



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



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



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

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

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

- 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.



Specifications

Height, Working Maximum*	Indoor	22 ft	6.7 m
	Outdoor	18 ft	5.5 m
Height, Platform Maximum	Indoor	16 ft	4.9 m
	Outdoor	12 ft	3.7 m
Height	Stowed Maximum	78.3 in	2 m
	Guard Rails	43.3 in	1.1 m
Maximum Personnel	Indoor	1	
	Outdoor	1	
Manual Force	Indoor	45 lbs	200 N
	Outdoor	45 lbs	200 N
Width		30 in	0.76 m
Length, Stowed		57 in	1.45 m
Platform Dimensions (Length x Width)		40 x 30 in	1.02 x 0.76 m
Platform Extension Length		20 in	0.5 m
Maximum Load Capacity		500 lbs	227 kg
Platform Extension Load Capacity		250 lbs	113 kg
Maximum Wind Speed		28 mph	12.5 m/s
Wheelbase		47.6 in	1.21 m
Turning Radius	Outside	70.8 in	1.8 m
	Inside	23.6 in	0.6 m
Ground Clearance		2.5 in	6.4 cm
Ground Clearance (Pothole Guards Deployed)		0.55 in	1.4 cm
Weight** (See Serial Label)		2,170 lbs	985 kg
Maximum Wheel Load		800 lbs	363 kg
Controls		Proportional	
AC Outlet In Platform		Standard	
Power Source		2x12V 115Ah AGM	
System Voltage		24 V	
Tire Size		9x3.1 in	230x80 mm
Airborne Noise Emissions		<70 dB (A-weighted) Maximum sound level at normal operating workstations Vibration value does not exceed 2.5m/s ²	
Maximum Slope Rating, Stowed Position***		25%	
Maximum Side Slope Rating, Stowed Position***		10%	
Warning Slope		X-1.5°, Y-3°	
Drive Speeds			
Stowed, Maximum		2.5 mph	4.0 km/h
Platform Raised, Maximum		0.5 mph	0.8 km/h
Floor Loading Information			
Tire Load, Maximum		800 lbs	363 kg
Tire Contact Pressure	Loaded	148 psi	10.4kg/cm ² (1,020 kPa)
	Unloaded	120 psi	8.5kg/cm ² (834 kPa)
Occupied Floor Pressure ****		225 psf	0.11kg/m ² (10.8 kPa)
Meets requirements of ANSI A92.20-2020 and CSA B354.6-2019.			
*Working Height adds 6 feet (2 m) to platform height.			
**Weight may increase with certain options.			
***Slope rating is subject to ground conditions and adequate traction.			
****Occupied floor pressure with deck extended is 168 psf - 0.08kg/m ² (8 kPa).			

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.

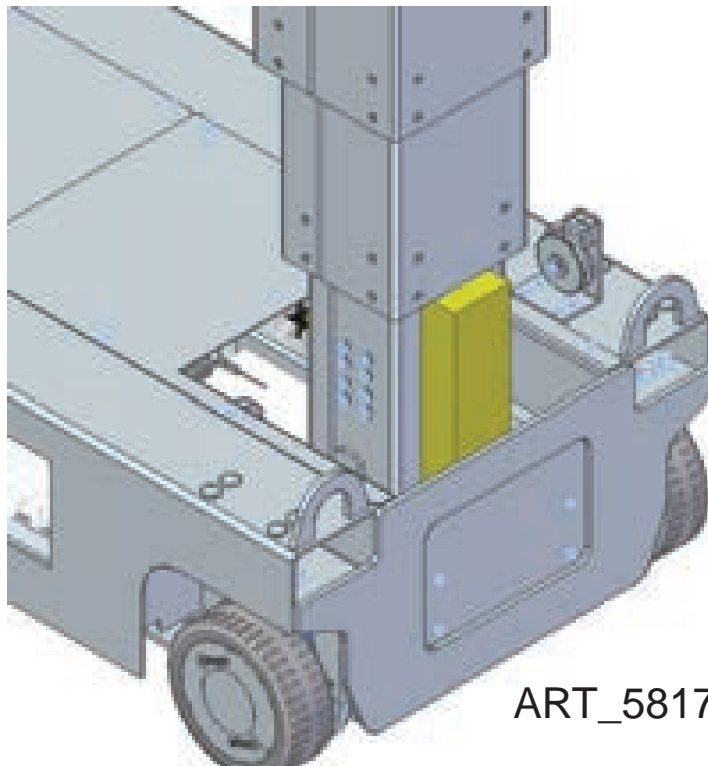
If special graphite grease, molydisulphide grease, or other extreme pressure lubricants are used, these torque values do not apply.

Maintenance Safety



Make sure that a chock is used during when working under an elevated platform.

NEVER perform work on the machine with the platform elevated without first using a 2"×4" to support the mast section as is shown below. Alternatively the platform can be supported with either a forklift or a crane.



ART_5817

Electrical System and Total System

Electrical System

CAUTION

Prevent damage to battery and/or electrical system;

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

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

Total System

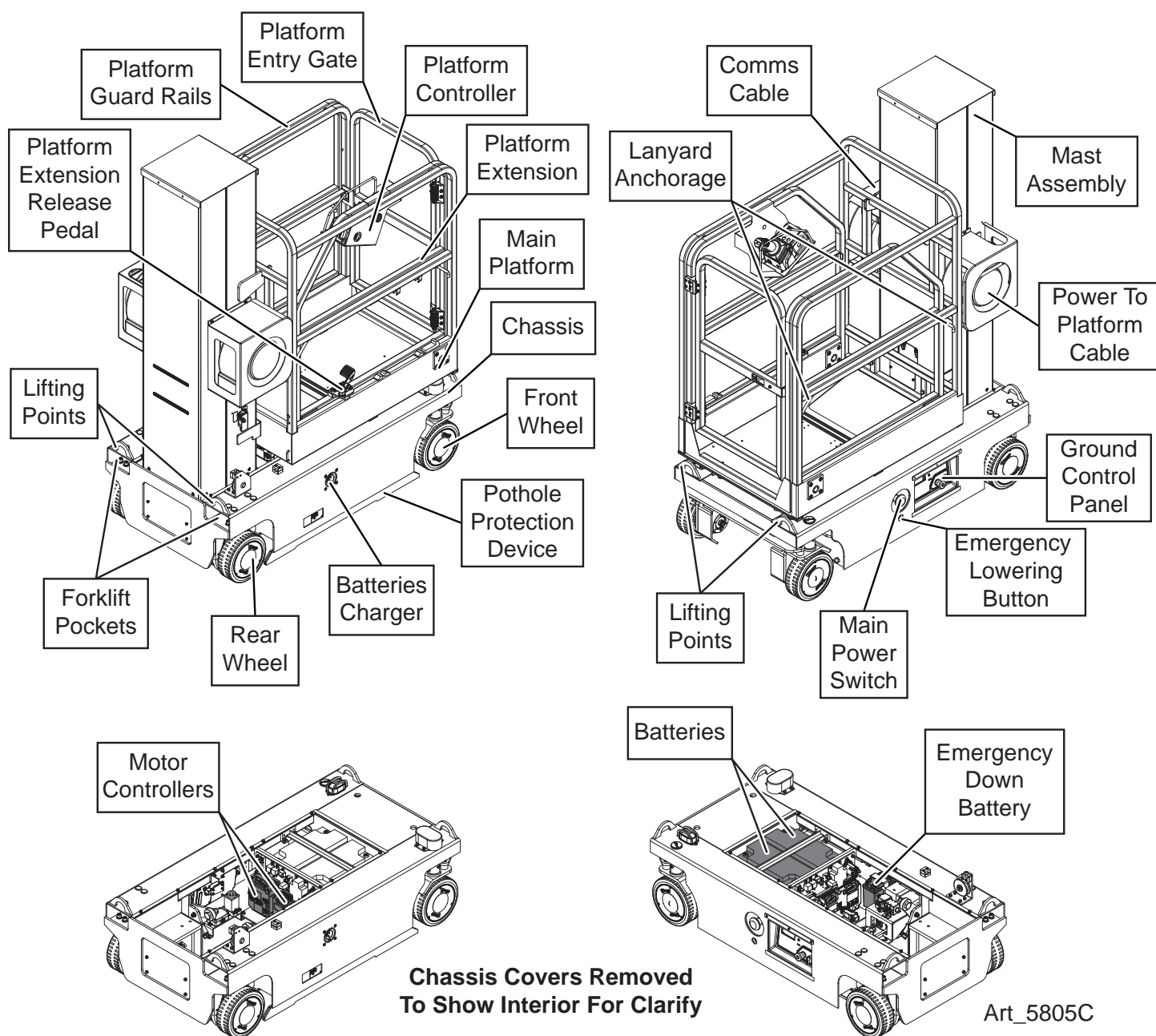
FAILURE TO PERFORM PREVENTIVE MAINTENANCE AT RECOMMENDED INTERVALS MAY RESULT IN THE UNIT BEING OPERATED WITH A DEFECT THAT COULD RESULT IN INJURY OR DEATH OF THE OPERATOR.

**WARNING**

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.

Machine Components



Emergency Systems and Procedures



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

DO NOT ATTEMPT TO CLIMB DOWN ELEVATING ASSEMBLY.

Emergency Stop

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

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



ART_3353

Emergency Lowering

Push the emergency lowering button located on the ground controls side of the machine under the Main Power Switch. It has a yellow decal border.



ART_5818

EMERGENCY
LOWERING
BUTTON

Transport and Lifting Instructions

Observe and Obey:

- The transport environment temperature should be within: -13°F (-25°C) ~ 131°F (55°C)
- Common sense and planning must be applied to control the movement of the machine when lifting it with a crane or forklift.
- Only qualified aerial lift operators should move the machine on or off the truck.
- The transport vehicle must be parked on a level surface.
- The transport vehicle must be secured to prevent rolling while the machine is being loaded.
- Be sure the vehicle capacity, loading surfaces and chains or straps are sufficient to withstand the machine weight. See the serial label for the machine weight.
- The machine must be on a level surface or secured before releasing the brakes.
- Only qualified forklift operators should lift the machine with a forklift.
- Be sure the crane capacity, loading surfaces and straps or lines are sufficient to withstand the machine weight. See the serial plate for the machine weight.

Brake Release Operation

1. Chock the wheels to prevent the machine from rolling.
2. Pull out the platform and emergency red Emergency Stop button to the "ON" position.
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!" Release all brakes.
8. If you want to close the brake release, just turn off the key switch in "ground" position.

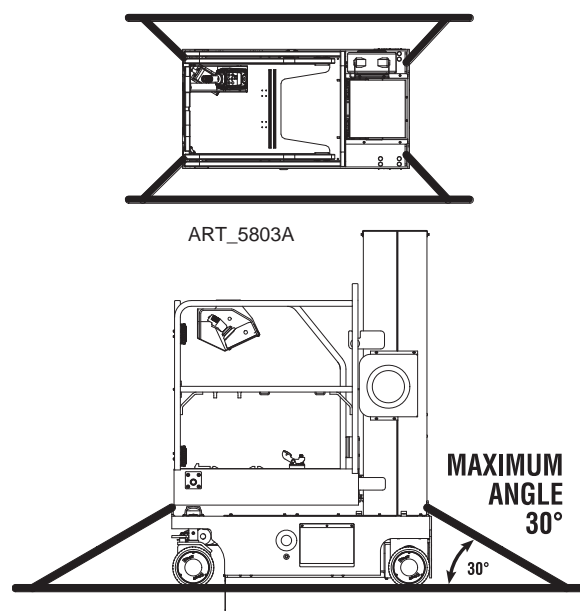
If the machine must be towed, do not exceed 2.5 mph (4.0km/h).

Securing to Truck or Trailer for Transit

- Turn the key switch to the "OFF" position and remove the key before transporting.
- Inspect the entire machine for loose or unsecured items.

Securing the Chassis

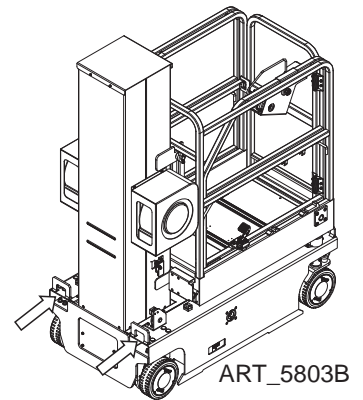
- Use chains of ample load capacity.
- Use a minimum of 4 chains.
- Adjust the rigging to prevent damage to the chains.



Lifting the Machine with a Forklift

- Only qualified riggers should rig and lift the machine.
- Only qualified forklift operators should lift the machine with a forklift.
- Be sure the crane capacity, loading surfaces and straps or lines are sufficient to withstand the machine weight. See the serial plate for the machine weight.

Be sure the controls and component trays are secure. Remove all loose items on the machine.



Fully lower the platform. The platform must remain lowered during all loading and transport procedures.

Position the forklift forks in position as the figure above.

Drive forward to the full extent of the forks.

Raise the machine 6 in (15 cm) and then tilt the forks back slightly to keep the machine secure.

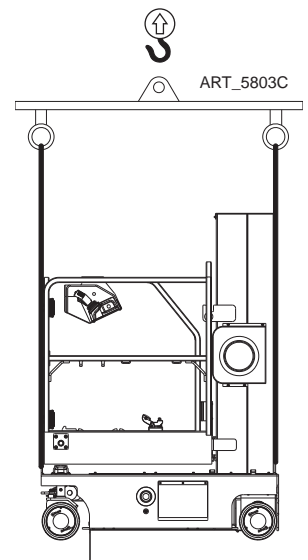
Be sure the machine is level when lowering the forks.

Lifting Instructions

Fully lower the mast and jib boom. Remove all loose items on the machine.

Attach the rigging only to the designated lifting points on the machine. There are two lifting points on the top of the mast.

Adjust the rigging to prevent damage to the machine and to keep the machine level.



Pre-start Inspection Report

	Be sure that the operator's manual is complete and legible.
	Be sure that all decals are legible and in place. See Decals section.
	Check for battery fluid leaks and proper fluid level. Add distilled water if needed. See Maintenance section.

Check the following components or areas for damage, improperly installed or missing parts and unauthorized modifications:

	Electrical components, wiring and electrical cables
	Battery and connections
	Drive motors
	Wear pads
	Wheels
	Lifting chains and idler wheels
	Mast and mast braces
	Limit switches, alarms and horn
	Nuts, bolts and other fasteners
	Platform entry gate
	Alarms and beacons (if equipped)
	Platform Control Panel
	Pothole guard

Check entire machine for:

	Cracks in welds or structural components
	Dents or damage to machine
	Be sure that all structural and other critical components are present and all associated fasteners and pins are in place and properly tightened



NEVER perform work or inspection on the machine with the platform elevated without first supporting the platform with either a forklift or a crane. Alternatively, use a 2"x4" or recommended a 4"x4" a piece of wood to support the mast section that is attached to the platform. See page 7 for instructions.

Maintenance Inspection Report

MMAE Series (All Electric Mast Lifts)

Fleet Equipment Number _____ Date _____

Inspector Name _____ Inspector Co. _____

Model Number _____ Address _____

Serial Number _____

Hour Meter _____ Signature _____

Machine Owner & address _____

Maintain all service records in accordance with ANSI A92.24-2019

*If an inspection receives an "N", remove from service. Once repaired, place an R in the box.

*Refer to the proper service manual for specific information, settings and torque specifications.

Key Y = Yes, Acceptable N = No, Remove from Service R = Repaired 0 = Not Applicable

☐ **QUARTERLY** - Inspect only those marked "Q"

☐ **ANNUAL** - Inspect all items

	Q/A	Y/N/O	R		Q/A	Y/N/O	R
DECALS:				WHEELS:			
Legible - undamaged/readable	Q			Tire, damage, excessive wear	Q		
Capacity decal correct for model	Q			Lug nuts (Wheel mounting) torqued correctly	Q		
RAILS:				King Pins lubed	A		
Not damaged, all in place	Q			COMPONENT AREA (Under Cover):			
All rail fasteners secure	Q			Motor Controller - cables tight, no corrosion	Q		
Entry gate secure, closes properly	Q			Wires not damaged - Plugs tight	Q		
Manual box in good condition	Q			Limit Switches - adjustment, operation, lubed	Q		
Operators Manual in manual box	Q			Cleanliness - All debris, excessive dirt removed	Q		
PLATFORM EXTENSION:				Batteries properly filled and cables clean	Q		
Rolls in and out freely	Q			Battery switch cuts battery feed	Q		
Lock holds deck in place	Q			Cover Doors secure, locks operate correctly	Q		
Release Pin moves freely, retains platform	Q			Fasteners present and tight	Q		
ELEVATING ASSEMBLY:				BASE:			
Mast Slide Blocks, lubed	Q			Fasteners present and tight	Q		
Mast structures: Straight, no cracks	Q			Cover panels secure	Q		
Welds: secure, no cracks	Q			Welds	A		
Cables tensioned correctly	Q			OPERATIONAL INSPECTION:			
Chains secure, not stretched	A			All functions, operate smooth and quiet	Q		
Lift Actuator no visible damage	A			All functions, speeds correct	Q		
ELECTRICAL:				Upper control box, operates correctly	Q		
GFCI operates correctly	Q			Emergency Down, operates correctly	Q		
Wire harnesses good cond, secure	A			Limit switches slows drive when elevated	Q		
Comm cable no damage, secure	A			Indoor/outdoor limit switch set test	Q		
Retractable Cord Reel operational	Q			Pothole switch test	Q		
Emergency stop, stops power/operation	Q			Battery Charger operation	Q		

Daily Maintenance

The following maintenance should be done daily.

1) Inspect the Manuals and Decals

Keeping the operator's manual in good condition is essential to safe machine operation. A operator's manual is included with each machine. 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 the 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 is 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 for your machine.

3) 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 for your machine.

4) Perform 30 Day Service

- Tools will be required to perform this procedure.
- New parts will 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 rest of the maintenance section for continued scheduled maintenance.

1. Perform the following Quarterly Maintenance procedures:
 - Inspect the Tires, Wheels and Castle Nut Torque (See page 18)

Quarterly Maintenance

The following maintenance should be done every 3 months or 250 hours of operation.

1) Inspect the Batteries

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



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



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

1. Put on protective clothing and eye wear.
2. Raise the platform to approximately 6.5 feet or 2 meters.
3. Remove the cover on the top of batteries.
4. 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.

5. Be sure that the battery retainers and cable connections are tight.
6. Connect the battery charger to a properly grounded 110 - 230V / 50 – 60 Hz single phase AC power supply.
 - **Result:** The charger should operate and begin charging the batteries.
 - **Result:** If, simultaneously, the charger alarm sounds and the LEDs blink, correct the charger connections at the fuse and battery. The charger will then operate correctly and begin charging the batteries.

Note: For best results, use an extension of adequate size with a length no longer than 49.2 feet or 15 meters.

7. 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
8. Install the cover back.

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 will 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.



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

- Inspect the following areas for burnt, chafed, corroded and loose wires:
 - Turning electric cylinder
 - Platform controls
- Raise the platform to approximately 6.5 feet or 2 meters.
- Remove the chassis covers.
- Inspect the following areas for burnt, chafed, corroded and loose wires:
 - Ground controls
 - In the center chassis area
 - Raising electric cylinder
 - Driving motor
- Install the covers back.
- Raise and then lower the platform. Inspect the following areas for burnt, chafed, corroded and loose wires:
 - Auto hose reel
- Inspect the following areas for burnt, chafed, corroded and loose wires:
 - Auto hose reel to platform wiring
 - Platform wiring harness connector
- Turn off the machine.

3) Inspect the Tires and Wheels (Including Castle Nut Torque)

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

- Check the tire surface and sidewalls for cuts, cracks, punctures and unusual wear.
- Check each wheel for damage, bends and cracks.
- Check each nut for proper torque.

Nut Torque, Dry	39.8 ft-lbs / 54 Nm
Nut Torque, Lubricated	28.8 ft-lbs / 39 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 ground red Emergency Stop button to the ON position. Turn the platform red Emergency Stop button clockwise 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 ground red Emergency Stop button to the ON position. Turn the platform red Emergency Stop button clockwise to the ON position.
4. Push down 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) Clean and Lubricate the Columns

- Tools will be required to perform this procedure.
- New parts will be required to perform this procedure.
- Dealer service will be required to perform this procedure.
- Use calcium sulfonate grease like CRC SL 35615 or equivalent.

Clean and properly lubricated columns are essential to good machine performance and safe operation. Extremely dirty conditions may require that the columns be cleaned and lubricated more often.

1. Raise the platform to the maximum height.
2. Remove the mast cover.
3. Visually inspect the inner and outer channels of the columns for debris or foreign material. If necessary, use a mild cleaning solvent to clean the columns.
4. The bearing between chain wheel with the shaft is lubricated with the calcium sulfonate base grease while raising.
5. Lubricate the place between chain wheel with a grease gun.
6. Lubricate the lead rail with the calcium sulfonate base grease while raising.



This procedure will require the use of additional access equipment. Do not place ladders or scaffold on or against any part of the machine. Performing this procedure without the proper skills and tools may result in death or serious injury. Dealer service is strongly recommended.

6) 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.

1. Pull out the ground red Emergency Stop button to the ON position. Turn the platform red Emergency Stop button clockwise to the ON position.
2. Turn the key switch to platform control.
3. Check the machine functions 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.
7. Test the machine functions from the ground and platform controls.
 - **Result:** No function should operate.

7) Test the 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 ground red Emergency Stop button to the ON position. Turn the platform red Emergency Stop button clockwise to the ON position.
2. Push down the horn button at the platform controls.
 - **Result:** The horn should sound.

8) Test the Drive Brakes

- Tools will be required to perform this procedure.
- New parts will 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. 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 ground red Emergency Stop button to the ON position. Turn the platform red Emergency Stop button clockwise 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.

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.

Braking Distance, Maximum	
High range on paved surface	24 in±11.8 in 61 cm±30 cm

9) Test the Drive Speed - Stowed Position

- Tools will 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 feet or 12.2 meters apart.
2. Turn the key switch to platform control. Pull out the ground and platform 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.

10) Test the Drive Speed - Raised Position

- Tools will 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 feet or 12.2 meters apart.
2. Turn the key switch to platform control. Pull out the ground and platform 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 6.5 feet or 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.

11) Test the Slow Drive Speed

- Tools will 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 feet or 12.2 meters apart.
2. Turn the key switch to platform control. Pull out the ground and platform 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 88 sec.

12) Test the pothole limit switches and the level Sensor

- Tools will 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 ground and platform 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 2.1 feet or 0.65 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

7. Lower the platform to the stowed position. Move the machine onto a firm, level surface.
8. Place a wooden block approximately 1.9 inches or 5 cm tall under the right pothole guard.
9. Press the lift function select button. Attempt to raise the platform approximately 2.1 feet or 0.65 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 2.1 feet or 0.65 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.
10. 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.
11. Lower the platform to the stowed position and remove the block under the right pothole guard.
12. Repeat this procedure beginning with step 8 for the left pothole guard.
13. Lower the platform to the stowed position, remove the block under the left pothole guard.
14. Turn off the machine.

13) Tension the Lifting Chains

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

Tension chains are essential to good machine performance and safe operation.

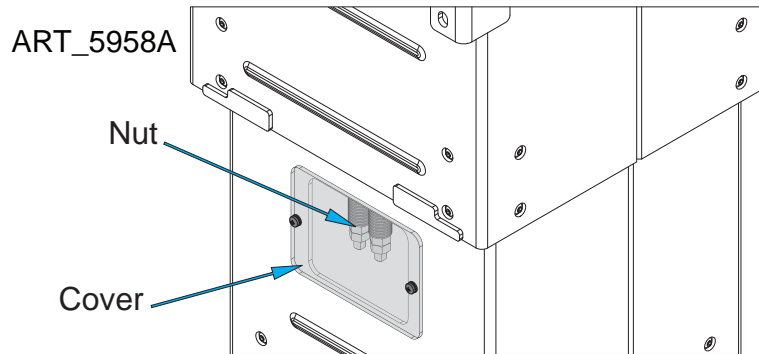
The direct result of wearing the transmission chain is to stretch the total length of the chain. Measure the stretching rate of the used transmission chain by eye every three months. The mast connected to the elongated chain would be lower in position so that the top of each mast is obviously uneven in 'stored' position. It may lead to damage on guide roller if the problem is serious.

**WARNING**

When slack chain or broken chain, please stop using the MEWP and contact MEC immediately

NOTICE

Every link of the transmission chain is associated with three links of the masts.



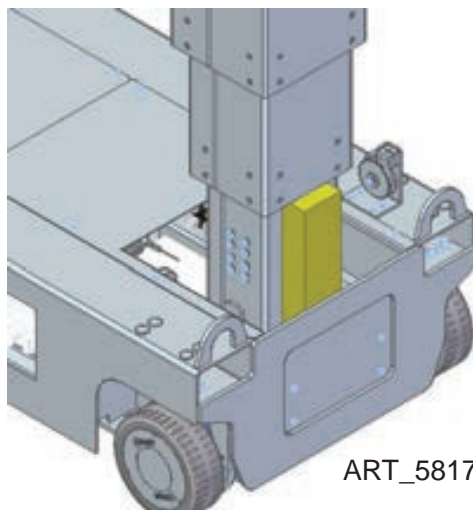
1. When regulating the length of the chain, please raise the platform to completely reveal the window, and then remove the transparent cover. Regulating the nut tightly makes the last link of the mast move upwards. The dual nuts should be connected with each other tightly after regulating the length of the chain.
2. The same link of the mast is pulled by two chains and endures the raised weight loads at the same time. If one of the chains loses efficacy, the other will play an important safety role; therefore, try to make both chains as loose or tight as consistent each other when regulating the length of the chain. The methods of judge at site are as follows: Press the two chains by hands to compare their tautness under lifting status.

**WARNING**

Make sure the chock is in place during maintenance

**WARNING**

For routine servicing purposes, a captive chock shall be used to enable the extending structure to be held in the required position to prevent work platform.



14) Inspection of the condition of the chains

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

You will need:

- Standard tool kit
- Protective goggles
- Gloves
- Place barriers around the perimeter of the work area

Preliminary operation

The disassembly should only be carried out when the chains are completely disconnected and must be done by people who have the necessary training.

All the precautions must be done before working on and near the machine. After completion of work, all the covers and safety devices must be positioned back completely and operational.

Lubrication

Lubricant must be applied with a brush to the external chains at least every 250 hours or every 6 months. The frequency of application depends on surrounding conditions and conditions of use. The frequency of application must ensure that a sufficient quantity of fluid oil is present in the chain links.

If the chain has been exposed to corrosive fluids, clean the chain immediately and apply lubricant.

Note: Telescoping operations may be necessary to access elements.

Before applying new lubricant, remove any foreign particles from the chain.

When cleaning chains, follow regulations concerning the environment.

Check the condition of the chains

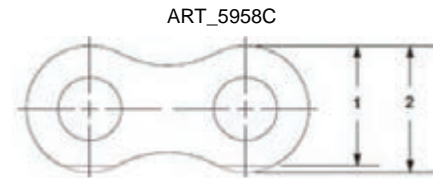
To carry out the following operations, perform a complete telescoping.

- Check that the lifting chains and safety chains are clean.
- Check that there are no foreign particles on the chains and guide.
- Check that there are no signs of corrosion on chain elements.

Chains with any of the defects described below must be replaced.

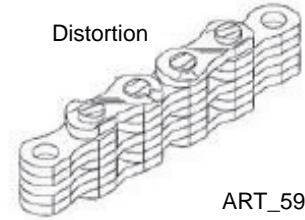
- Check for elongation wear:
- Elongation of up to 2%, over 12 segments, of the original chain length is permitted.
- Measure the value of (3) using an appropriate method. Compare with the value of 4 indicated in the table below.

Link width (2)	Length of 12 links (4)
0.47 in 12.08 mm	6.0 in 152.40 mm



- Check for external wear on rollers and links
- External wear must not measure more than 2% from the section of the original link (2), see table above.
- Measure the value of (1) using an appropriate method.
- Check that no line or element is damaged or missing.
- Check that links are not distorted, deformed or broken.

Distortion



ART_5958D

Crack



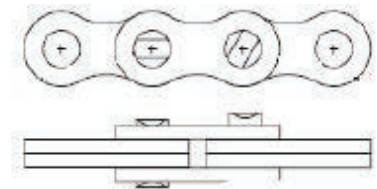
Break



Wedging



ART_5958E



- Check the connection points of links (the lines must be parallel).

Replacing the chains

The chains must be changed every 7 years.

Semi-annual Maintenance

The following maintenance should be done every 6 months or 500 hours of operation.

1) Test the Platform Overload System

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.



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

1. Turn the key switch to platform control. Pull out the ground red Emergency Stop button to the ON position. Turn the platform red Emergency Stop button clockwise 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.
 - **Result:** The overload alarm at the platform controls should not sound, indicating a normal condition.
 - **Result:** The overload alarm at the platform controls sounds. Calibrate the platform overload system.
4. Add an additional weight to the platform not to exceed 25% of the maximum rated load.
 - **Result:** The overload alarm at the platform controls sounds, indicating a normal condition.
 - **Result:** The overload alarm at the platform controls does not sound. Calibrate the platform overload system.
5. Test all machine functions from the platform controls.
 - **Result:** All platform control functions should not operate.
6. Turn the key switch to ground control.
7. Test all machine functions from the ground controls
 - **Result:** All ground control functions should not operate.
8. Lift the test weight off the platform floor using a suitable lifting device.
 - **Result:** The overload alarm at the platform controls should not sound, indicating a normal condition.
 - **Result:** The overload alarm at the platform controls sounds. Calibrate the platform overload system.
9. Test all machine functions from the ground controls.
 - **Result:** All ground control functions should operate.
10. Turn the key switch to platform control.
11. Test all machine functions from the platform controls.
 - **Result:** All platform control functions should operate.

Yearly Maintenance

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

1) Inspection of the Condition of the Electric Cylinder

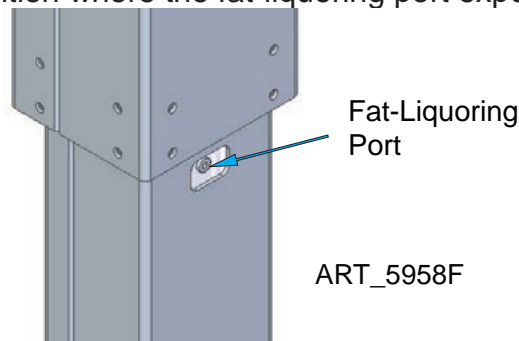
- Tools will be required to perform this procedure.
- New parts will be required to perform this procedure.
- Dealer service will be required to perform this procedure.

The Electric Cylinder in good condition is essential to machine performance and service life. The Electric Cylinder which is not lubricated fully will influence machine performance, and with continued use, spare parts can be damaged. This operation should be carried out more frequently under severe working conditions

If the Electric Cylinder sends out abnormal sound, please add the lubricating grease promptly.

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

1. Raise the platform to the position where the fat-liquoring port exposes completely.



2. Disconnect the battery pack from the machine, and let the machine stand for a hour at last.



WARNING

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

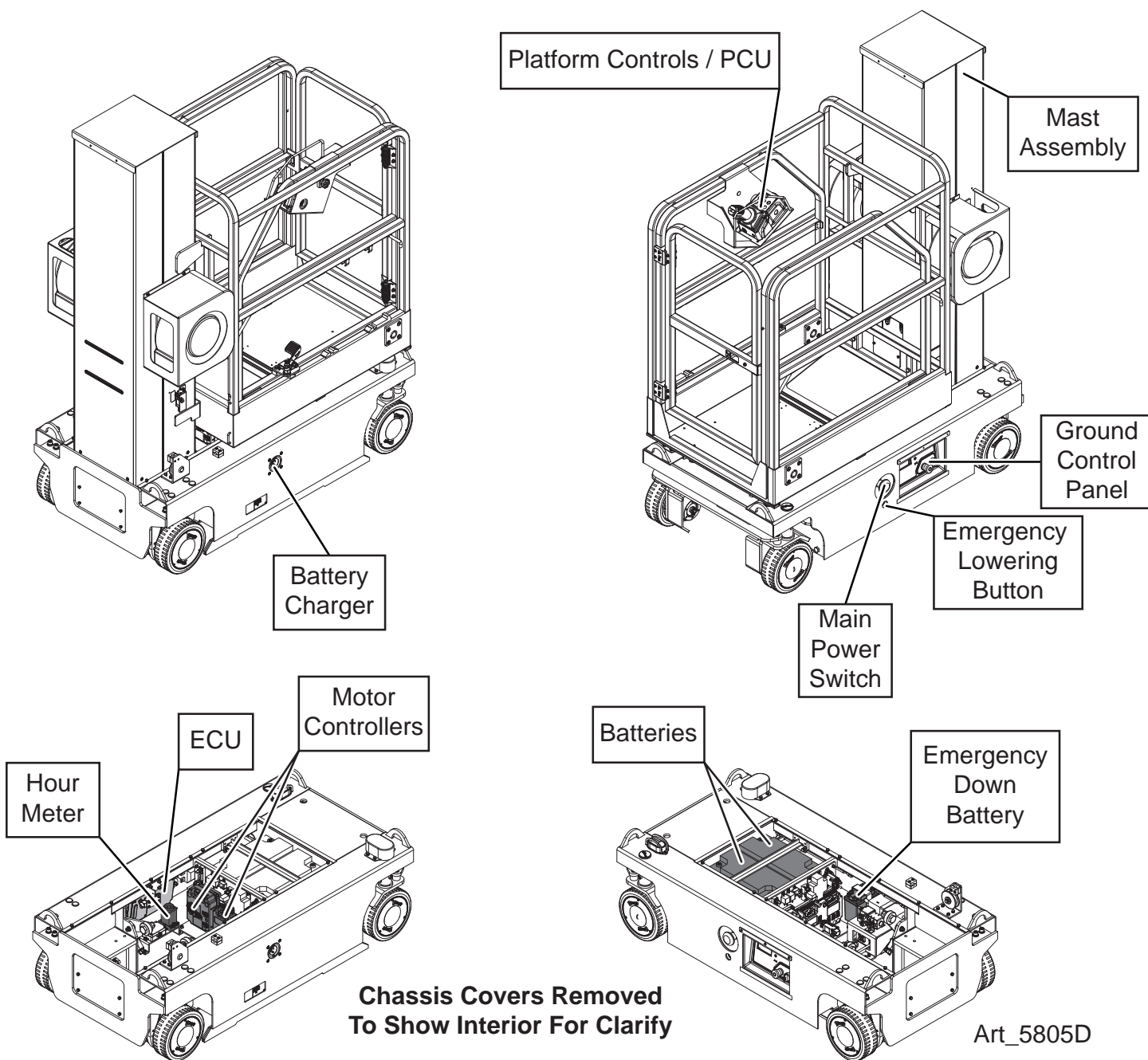
3. Remove the plug from the fat-liquoring port.
4. Add a moderate amount of lubricating grease. (Lubricating Grease Type - Mobil SHC220)
5. Clean any spilled lubricating grease.
6. Install the battery pack, then raise and descend the platform a few times. Inspect the condition of the machine.



WARNING

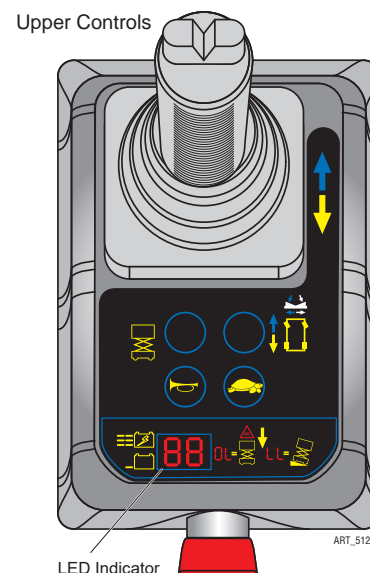
Electrocution / burn hazard. Contact with electrically charged circuits could result in death or serious injury. Remove all rings, watches and other jewelry.

Control Component Locations



Fault Codes

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



Fault	Description	Models	Solutions
01	System Initialization Fault	All Models	Check the ECU.
02	System Communication Fault	All Models	Check the platform control, wiring on platform connector, ECU, battery, and relay on ground control.
03	Invalid Option Setting	All Models	Reset the option code. See Service manual for instructions.
04	Calibration Fault	All Models	Needs to be Calibrated
08	Key Switch Error	All Models	Check Key switch outputs
10	MC Communication Fault	All Models	Check connections at motor controller
12	Chassis Up or Down Switch ON at power-up Fault	All Models	Check the wiring on toggle switch, and the toggle switch.
18	Pothole Guard Fault	All Models	Check the pothole board and switches. If stowed, check limit switch.
31	Pressure Sensor Fault	Micro19	Check option code. See Service manual for instructions.
32	Angle Sensor Fault	All Models	Check wiring to angle sensor for normal voltage range 1.9-3.8V, then check the option code.
35	Pressure Sensor 2 Fault	All Models	Check pressure sensor outputs. Replace Pressure Sensor.
36	Battery Drain Alarm	All Models	Charge Batteries.
42	Left turn switch ON at power-up	All Models	Check the left steer button, and the platform controller.
43	Right Turn Switch ON at power-up	All Models	Check the right steer button, and the platform controller.
46	Joystick Enable Switch ON at power-up	All Models	Wait several seconds when turning on the lift, then check the joystick dead-man switch.
47	Joystick not in neutral at power-up	All Models	Check the joystick, and the platform controller.
52	Drive Forward Coil Fault	All Models	Check the option code. See Service manual for instructions.

53	Drive Reverse Coil Fault	All Models	Check the option code. See Service manual for instructions.
54	Lift Up Coil Fault	All Models	Check the lift solenoid and wiring.
55	Lift Down Coil fault	All Models	Check the down solenoid and wiring, and the scissor harness for crushed or pinched wires.
56	Right Turn Coil Fault	All Models	Check the right steering solenoid and wiring.
57	Left Turn Coil Fault	All Models	Check the left steering solenoid and wiring.
68	Low Voltage Fault	All Models	Check battery voltage and charge batteries if necessary, check battery connections, connection from ECU to PCU, then the voltage to the ECU and PCU.
80	Over 80% Load Warning	All Models	Platform is getting close to limit of weight.
90	Platform Load is over 90%	All Models	Consider removing weight from platform.
99	Over 99% Load Warning	All Models	Platform has reached its weight capacity.
OL	Platform Overloaded	All Models	Remove the excess load immediately.
LL	Machine Tilted Beyond Safe Limits Fault	All Models	Check to see if machine is tilted, then check wiring to tilt sensor and the tilt sensor.
CH	NOT A FAULT CODE	All Models	Indicates that key switch is in base controls.
UP	Platform up limit position	All Models	Platform has reached maximum height
102	Restore Parameters to Default	All Models	See instructions for restoring Defaults
103	Battery is draining	All Models	Batteries are low, consider charging
104	Motor Controller Fault	All Models	See individual MC fault codes

Parameter Adjustment

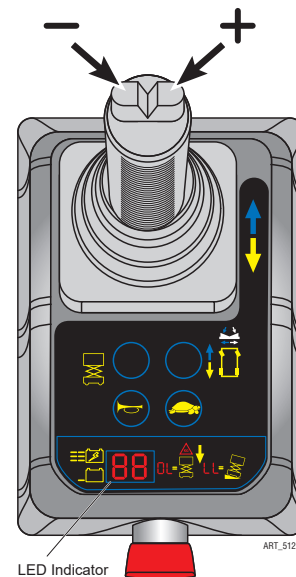


PARAMETERS SHOULD BE ADJUSTED ONLY IF THE FUNCTION IS OPERATING OUTSIDE OF MACHINE SPECIFICATIONS, OR IF WRITTEN APPROVAL IS OBTAINED FROM MEC PRIOR TO MAKING THE CHANGE.

The following adjustments are made at the Platform Controls station using the LED Indicator to display the current settings. Follow the instructions to reach the desired setting.

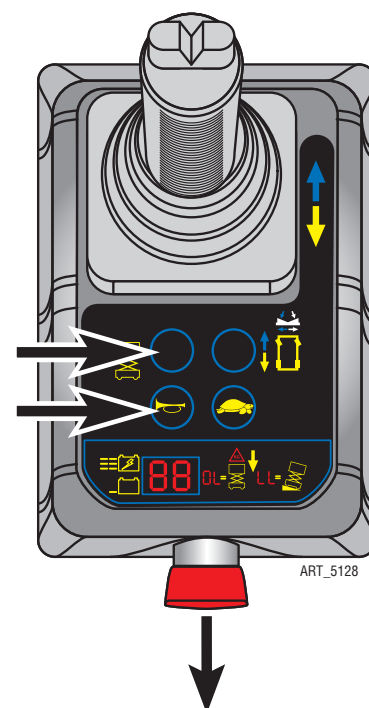
Change the setting by using the Steer Buttons on top of the control handle. The right button increases the setting. The left button decreases the setting.

Number represent a percentage. 99 means 99%. 9°9 (dot between the digits) means 100%.



Speed Adjustment State

1. Set the key switch at the Base Controls to PLATFORM. Twist the Base Emergency Stop Switch out to the ON position.
2. Push the Platform Controls Emergency Stop Button in to the OFF Position.
3. Press and hold the HORN and LIFT buttons, then twist the Platform Emergency Stop Switch to the ON position.



4. "PS" and the current Lift Speed setting will alternate on the LED Indicator.

Refer to the following pages for individual operating adjustments.

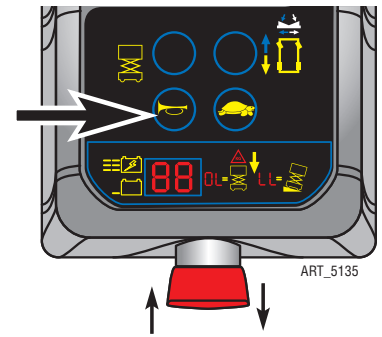


Saving New Values

New values must be saved immediately after adjustment.

To save new values, press and hold the Horn button for 3 seconds.

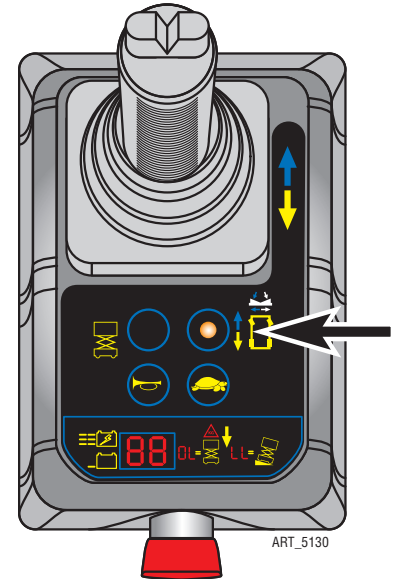
To operate the machine with new values, press the Emergency Stop button, then rotate it to return to the ON position.



High Drive Speed

This parameter controls high speed drive when the platform is in the stowed position.

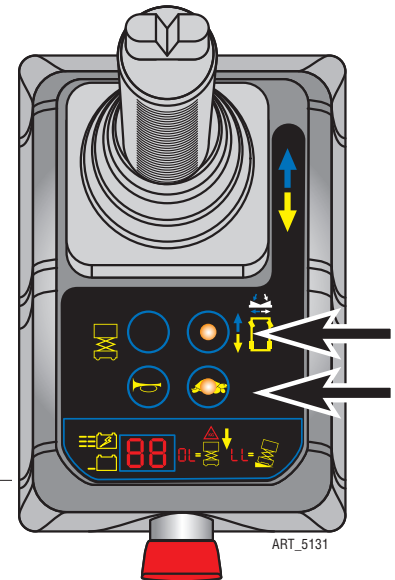
1. Press the Drive Mode Select button. The button will light up, indicating this mode is active, and the LED Indicator will show the present setting.
2. Adjust the speed using the steer left and steer right buttons on top of the Control Handle.
3. High Drive Speed may be changed from 00 to 9°9. Factory setting is 9°9.
4. Save the new setting (See top of page for “Saving New Values”).



Low Speed Drive

This parameter controls low speed drive when the platform is in the stowed position and Low Speed is selected (turtle icon).

1. Press the Drive Mode Select button. The button will light up, indicating this mode is active.
2. Press and hold the Low Speed Mode Select button (turtle icon). The button will light up, and the LED Indicator will show the present setting.
3. Adjust the speed using the steer left and steer right buttons on top of the Control Handle.
4. Low Drive Speed can be set from 00 to 9°9, but must not be set higher than 50. Factory setting is 50.



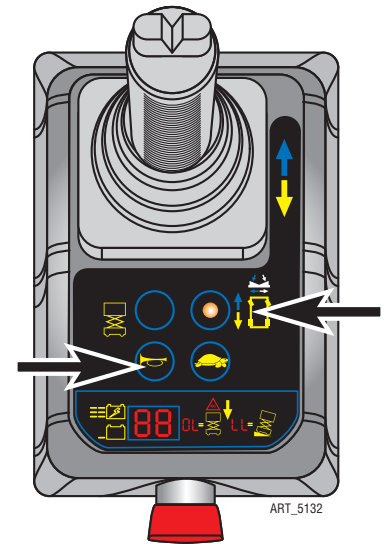
DO NOT ADJUST THE SETTING HIGHER THAN 50.

5. Save the new setting (See top of page for “Saving New Values”).

Elevated Drive Speed

This parameter controls drive speed when the platform is elevated.

1. Press the Drive Mode Select button. The button will light up, indicating this mode is active.
2. Press and hold the Low Speed Mode Select button (turtle icon). The button will light up, indicating this mode is active.
3. Adjust the speed using the steer left and steer right buttons on top of the Control Handle.
4. Elevated Drive Speed can be set from 00 to 9°9, but must not be set higher than 50. Factory setting is 50.



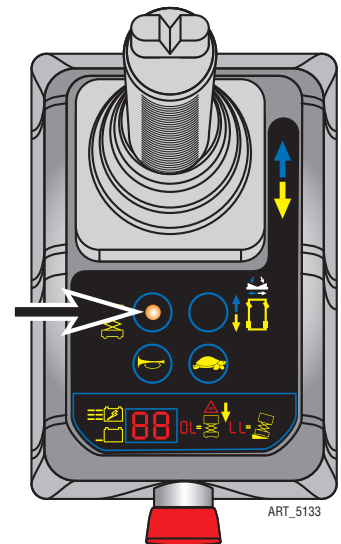
DO NOT ADJUST THE SETTING HIGHER THAN 50.

5. Save the new setting (See page 34 for “Saving New Values”).

Lift Speed

This parameter controls the speed at which the platform elevates.

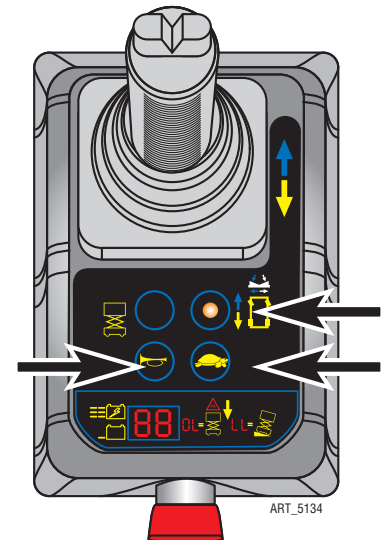
1. Press the Lift Mode Select button. The button will light up, indicating this mode is active.
2. Adjust the speed using the steer left and steer right buttons on top of the Control Handle.
3. Elevated Drive Speed can be set from 00 to 9°9. Factory setting is 9°9.
4. Save the new setting (See page 34 for “Saving New Values”).



Steering Speed

This parameter controls speed at which the steering wheels turn.

1. Press the Drive Mode Select button. The button will light up, indicating this mode is active.
2. Press and hold the Horn button and the Low Speed Mode Select button (turtle icon).
3. Adjust the speed using the steer left and steer right buttons on top of the Control Handle.
4. Steering Speed can be set from 00 to 9°9. Factory setting is 30.
5. Save the new setting (See page 34 for “Saving New Values”).



Electrical Schematic

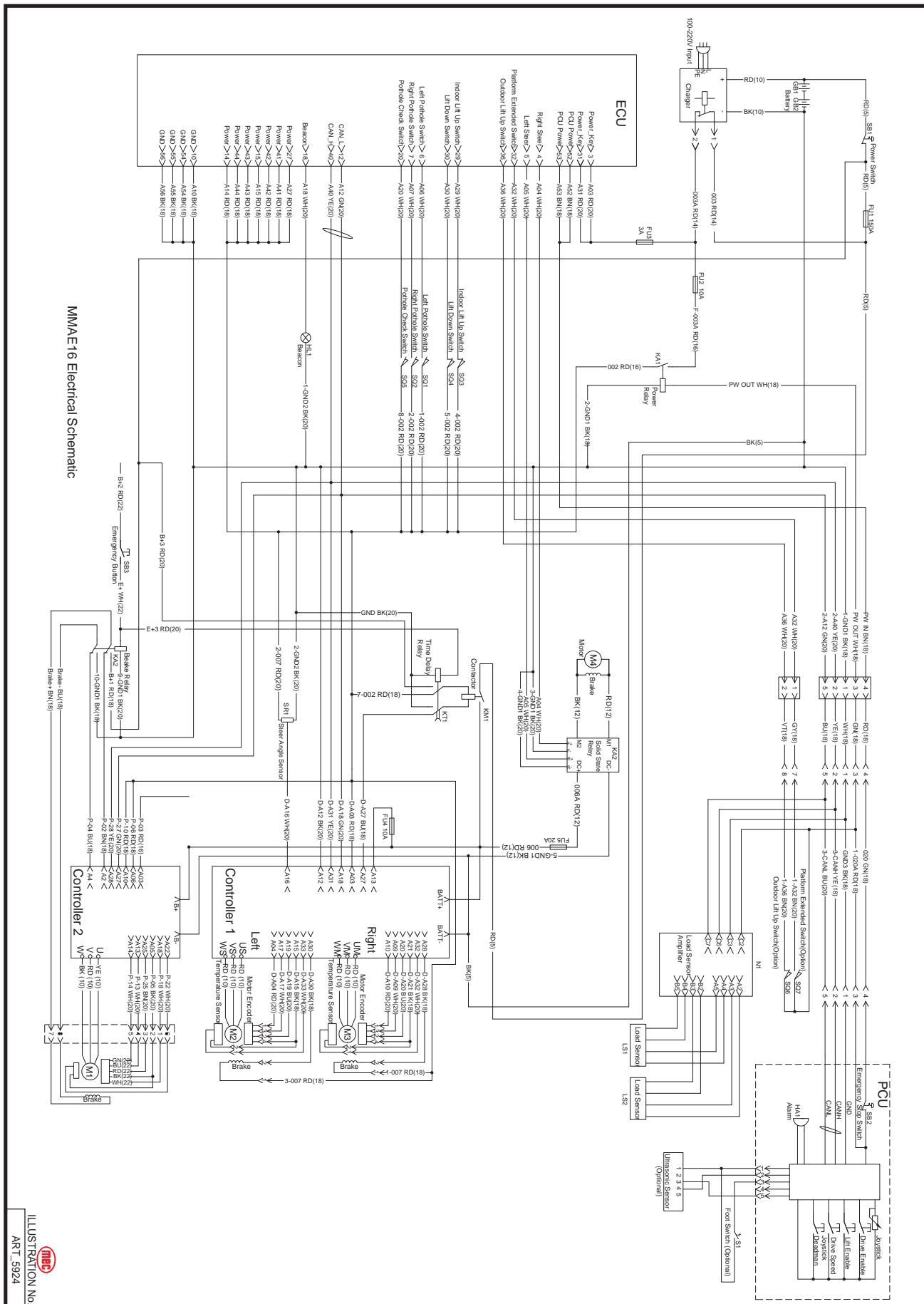


ILLUSTRATION No.

ART_5924

Notes

Parts Introduction

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

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

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

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

Steer Linkage and Wheels Assembly Installation

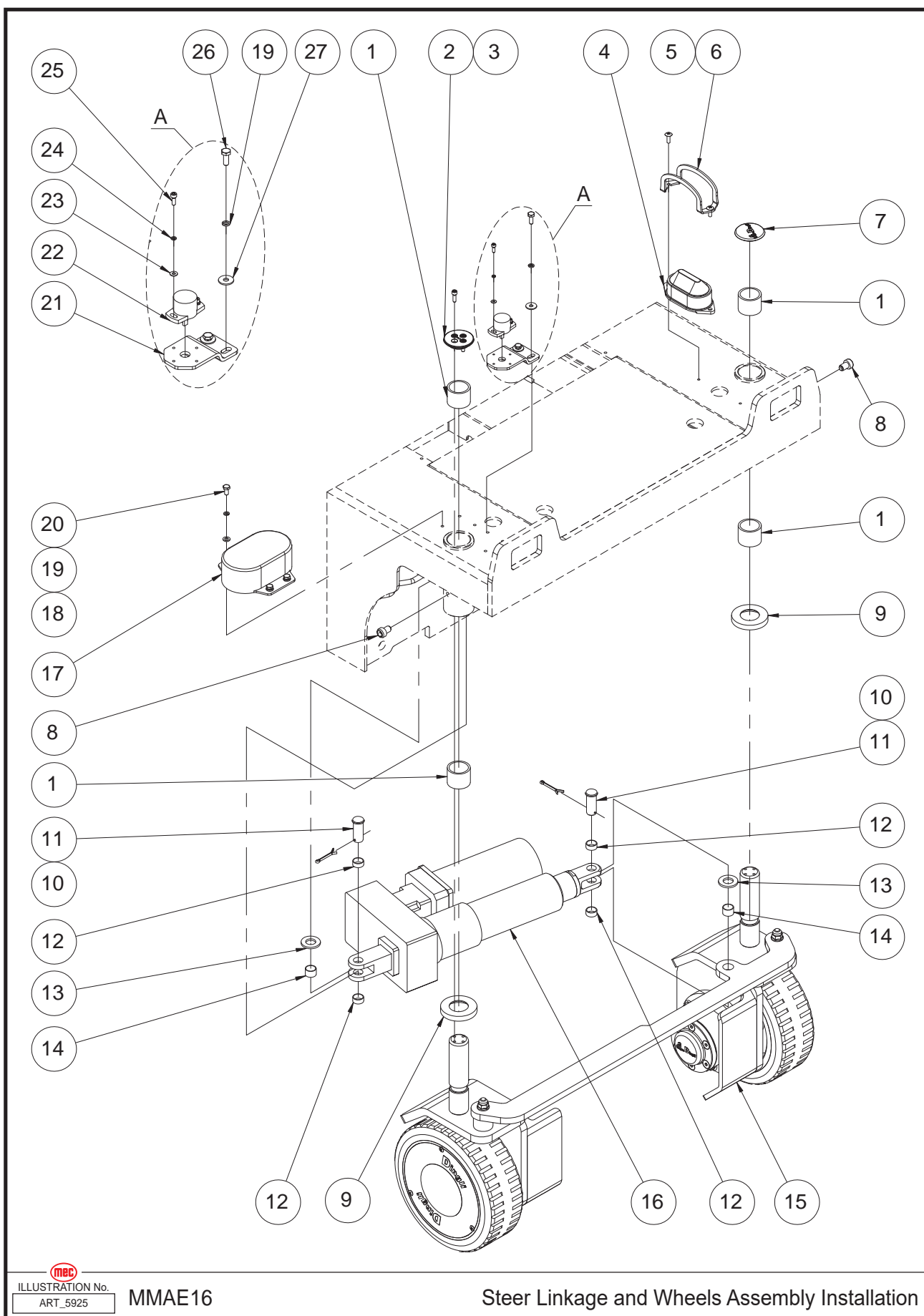


ILLUSTRATION No.
ART_5925

MMAE16

Steer Linkage and Wheels Assembly Installation

Item	Part Number	Description	Qty.
1	41202	Bearing	4
2	44636	Cover	1
3	50359	Screw SHCS M05-0.80 × 16	4
4	41310	Beacon	1
5	53223	Screw THMS M05-0.80 × 16	2
6	41309	Beacon Cover	1
7	44637	Cover	1
8	41794	Screw	2
9	41199	Washer	2
10	44638	Cotter Pin	2
11	41321	Pin	2
12	41225	Bearing	4
13	43564	Washer	2
14	41210	Bearing	2
15	REF	Steer Linkage and Wheels Assembly (Refer To Page 40)	1
16	44639	Electric Cylinder Assembly	1
--	44640	Electric Cylinder	1
--	44641	Reducer	1
--	44642	Brake	1
--	44643	Motor	1
17	44644	Sensor Cover	1
18	50000	WSHR M06 Standard Flat Washer	4
19	53046	WSHR M06 Spring Washer	6
20	53104	Screw HHCS M06-1.00 × 12	4
21	44645	Sensor Bracket	1
22	41195	Rotary Sensor	1
23	50284	WSHR M04 Standard Flat Washer	2
24	53062	WSHR M04 Spring Washer	2
25	50423	Screw SHCS M04-0.70 × 12	2
26	50068	WSHR M06 Flat Fender Washer	2
27	50445	Screw HHCS M06-1.00 × 16	2

REF - Reference

Steer Linkage and Wheels Assembly

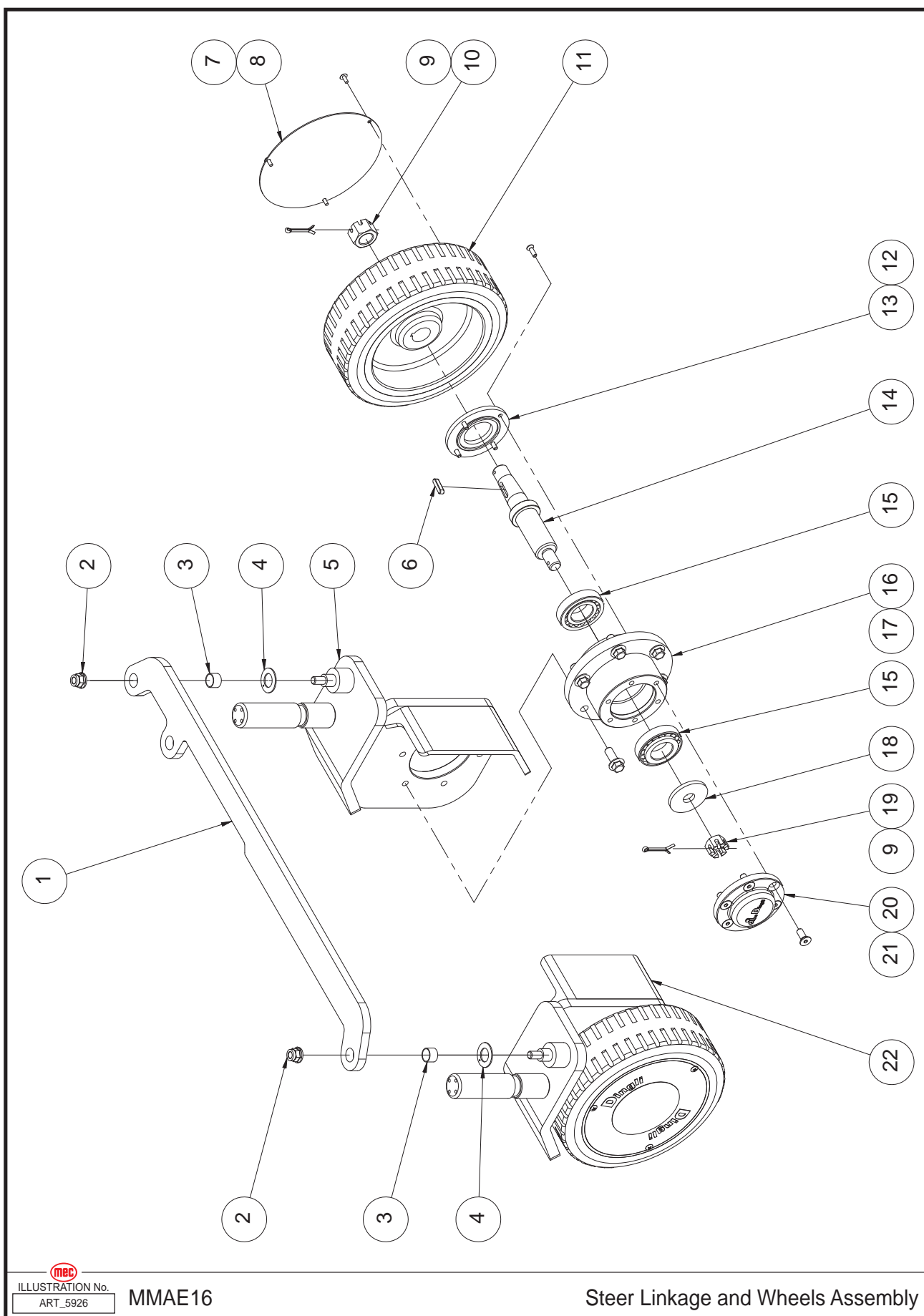


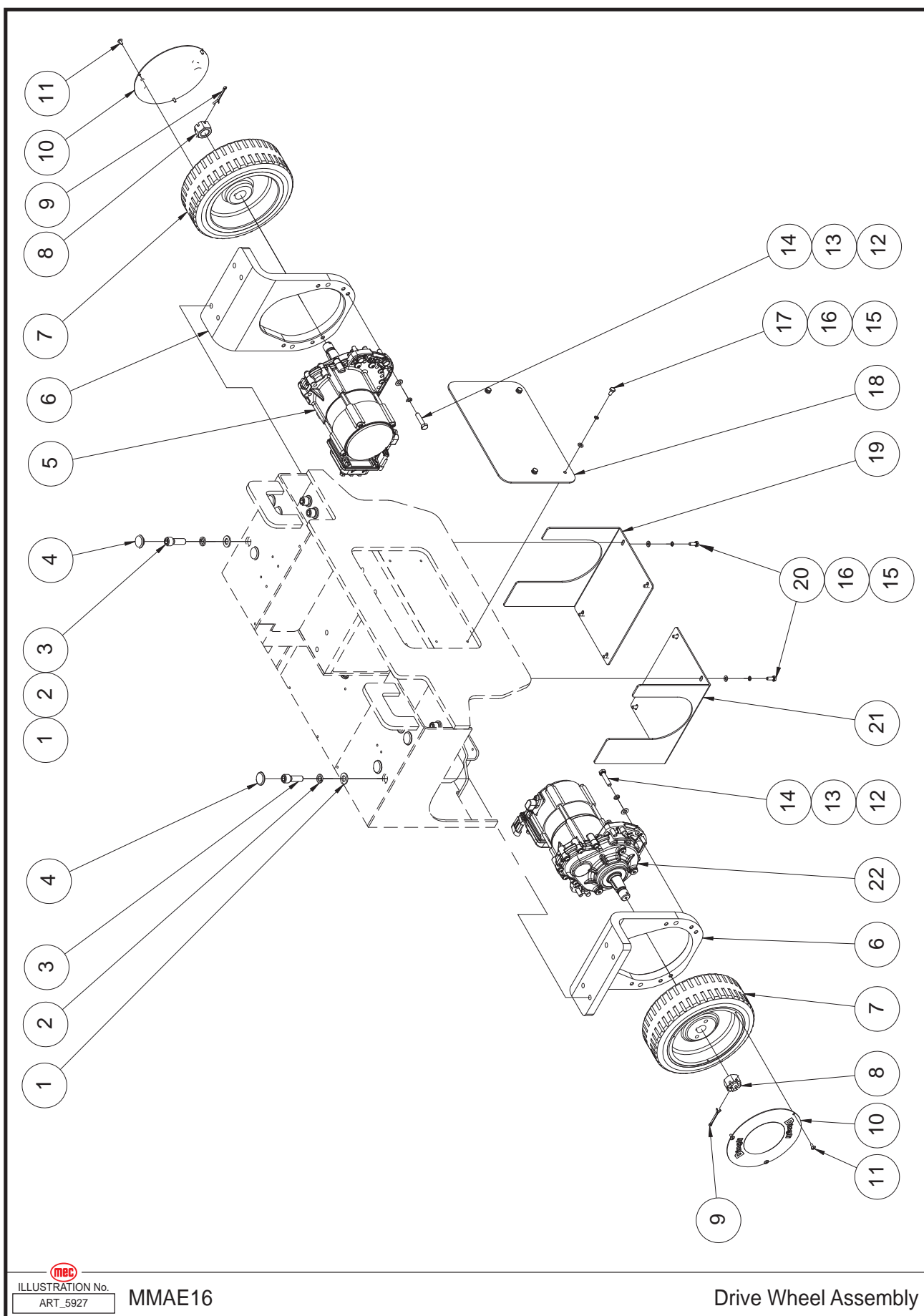
ILLUSTRATION No.
ART_5926

MMAE16

Steer Linkage and Wheels Assembly

Item	Part Number	Description	Qty.
1	44646	Tie Rod Weldment	1
2	50311	Nut NNYL M10-1.50 Flange	2
3	41210	Bearing	2
4	41222	Bearing	2
5	44647	Steer Yoke Weldment	1
6	44648	Key	2
7	53348	Screw THMS M04-0.70 × 10	6
8	41323	Cover	2
9	44638	Cotter Pin	4
10	53416	Castle Nut M20-2.50 × 1.50	2
11	44649	Wheel	2
12	53269	Screw CSCS M05-0.80 × 16	8
13	41230	Bearing Cover	2
14	44650	Wheel Shaft	2
15	41024	Bearing	4
16	41234	Connection Plate	2
17	50429	Screw HHCS M10-1.50 × 25 Serrated Flange	12
18	41327	Washer	2
19	53347	Castle Nut M16 × 1.50	2
20	41328	Cap	1
21	53282	Screw CSCS M08-1.25 × 20	12
22	44651	Steer Yoke Weldment	1

Drive Wheel Assembly



Item	Part Number	Description	Qty.
1	50003	WSHR M12 Standard Flat Washer	8
2	53148	WSHR M12 Spring Washer	8
3	53013	Screw SHCS M12-1.75 × 35	8
4	44652	Cover	8
5	44653	Drive Motor Assembly	1
--	44654	Reducer	1
--	44655	Motor	1
--	44656	Brake	1
6	44657	Support	2
7	44649	Wheel	2
8	53416	Castle Nut M20-2.50 × 1.50	2
9	43563	Cotter Pin	2
10	41323	Cover	2
11	53348	Screw THMS M04-0.70 × 10	6
12	50001	WSHR M08 Standard Flat Washer	12
13	53055	WSHR M08 Spring Washer	12
14	50282	Screw HHCS M08-1.25 × 35	12
15	50000	WSHR M06 Standard Flat Washer	12
16	53046	WSHR M06 Spring Washer	12
17	53104	Screw HHCS M06-1.00 × 12	4
18	44658	Cover	1
19	44659	Cover	1
20	50445	Screw HHCS M06-1.00 × 16	8
21	44660	Cover	1
22	44661	Drive Motor Assembly	1
--	44654	Reducer	1
--	44655	Motor	1
--	44656	Brake	1

Pothole Protection Assembly

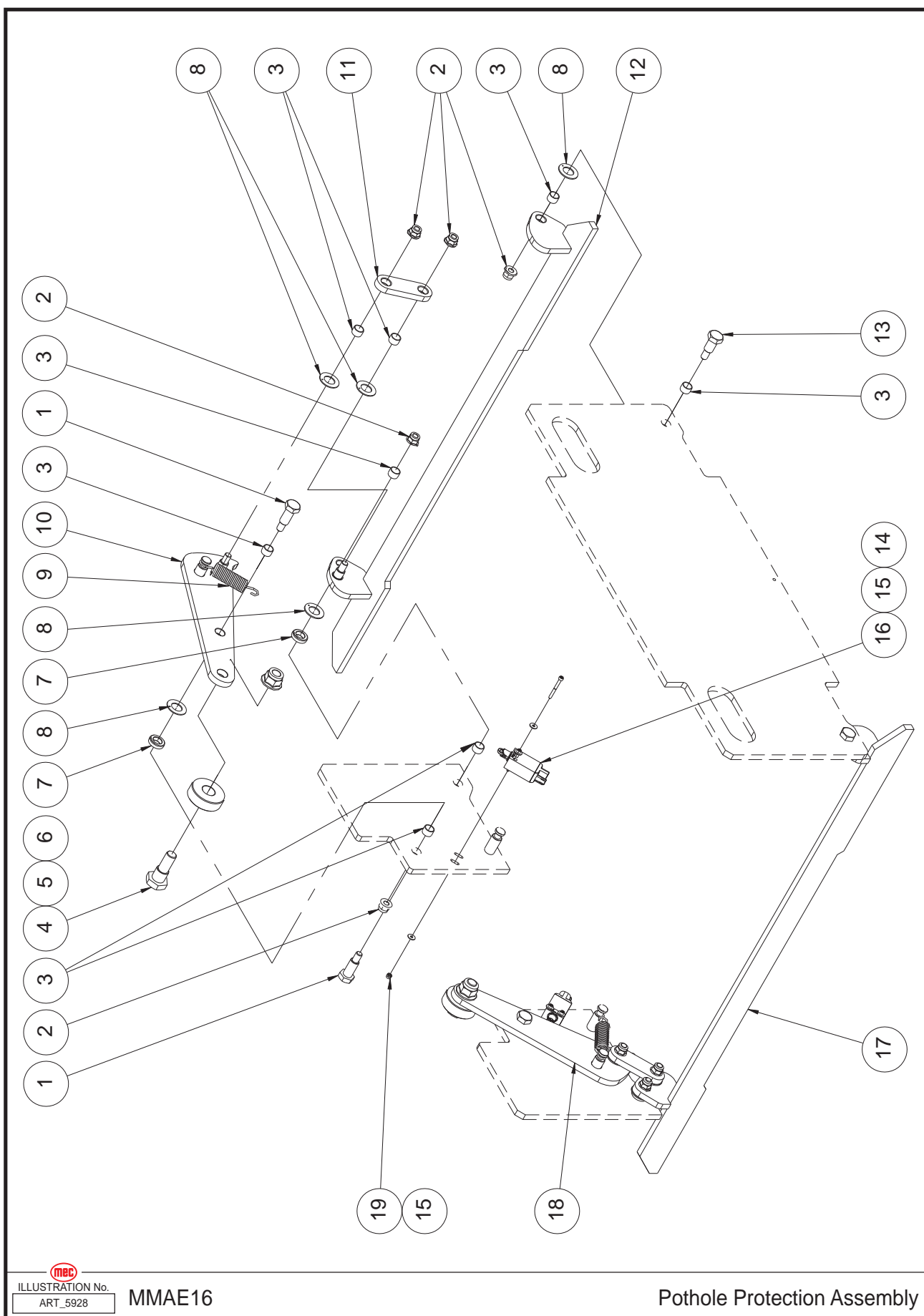


ILLUSTRATION No.
ART_5928

MMAE16

Pothole Protection Assembly

Item	Part Number	Description	Qty.
1	44662	Pin	4
2	50311	Nut NNYL M10-1.50 Flange	10
3	44309	Bearing	16
4	44663	Pin	2
5	44664	Roller	2
6	53417	Nut NNYL M16-2.00 Flange	2
7	44665	Washer	4
8	41222	Bearing	10
9	44666	Spring	2
10	44667	Linkage Weldment	1
11	44668	Pothole Link Plate	2
12	44669	Pothole Guard Weldment	1
13	44670	Pin	2
14	53278	Screw SHCS M04-0.70 × 20	4
15	53120	WSHR M04 Flat Fender Washer	8
16	44671	Limit Switch	2
17	44672	Linkage Weldment	1
18	44673	Pothole Link Plate	1
19	50285	Nut NNYL M04 × 0.70	4

Electric Control Assembly

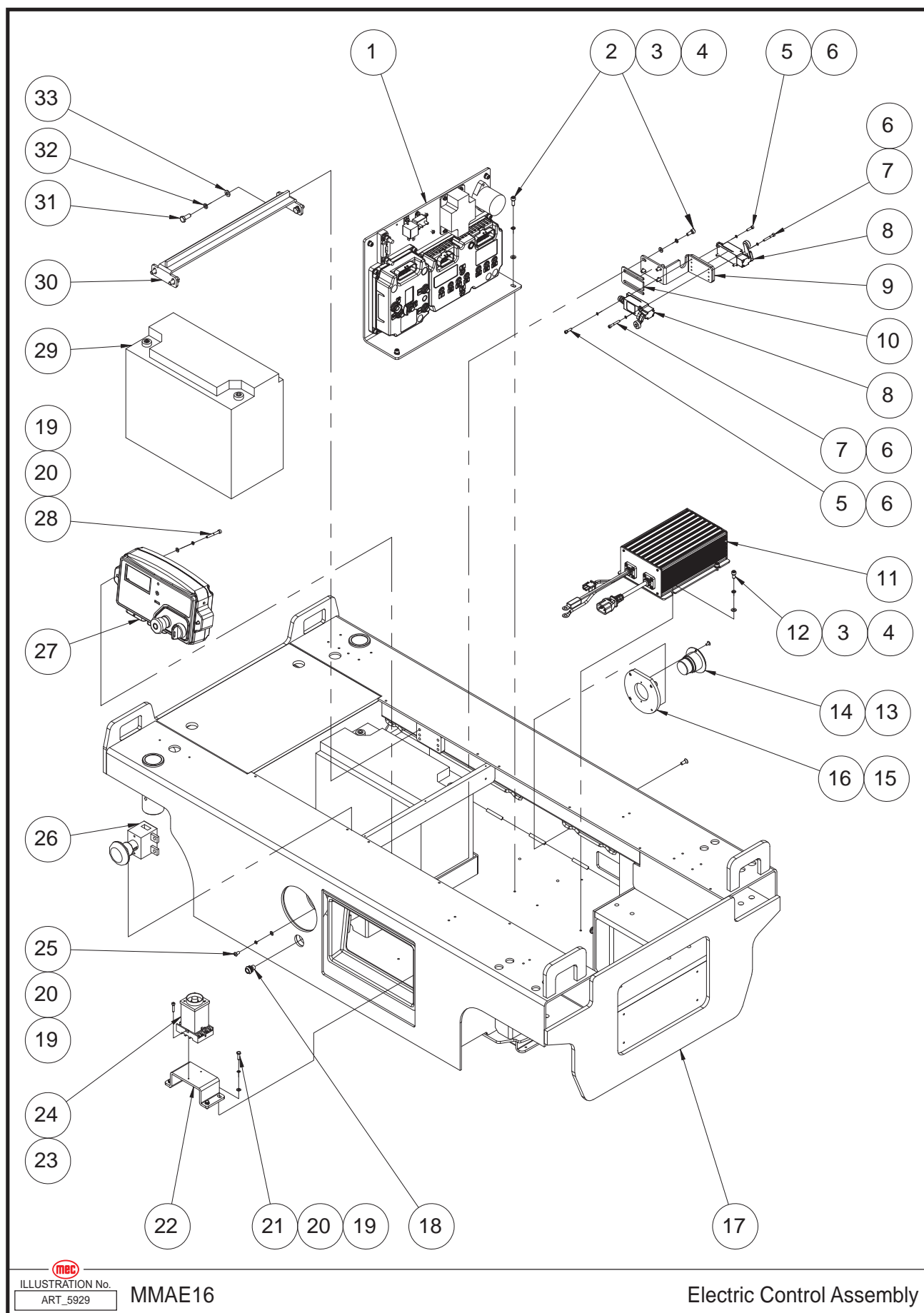


ILLUSTRATION No.
ART_5929

MMAE16

Electric Control Assembly

Item	Part Number	Description	Qty.
1	REF	Motor Controller Assembly (Refer To Page 48)	1
2	53138	Screw SHCS M06-1.00 x 16	8
3	53046	WSHR M06 Spring Washer	12
4	50000	WSHR M06 Standard Flat Washer	12
5	53113	Screw SHCS M04-0.70 x 16	4
6	53062	WSHR M04 Spring Washer	10
7	53065	Screw SHCS M04-0.70 x 30	4
8	42074	Limit Switch	2
9	44674	Switch Bracket	1
10	44675	Shim	1
11	42904	Charger	1
12	53380	Screw SHCS M06-1.00 x 12	4
13	53263	Screw THMS M04-0.70 x 8	2
14	41575	Plug	1
15	53226	Screw CSCS M06-1.00 x 16	4
16	44676	Mounting Plate	1
17	44677	Frame Weldment	1
18	44678	Pushbutton Switch	1
19	53038	WSHR M05 Standard Flat Washer	8
20	53043	WSHR M05 Spring Washer	8
21	53418	Screw HHCS M05-0.80 x 16	4
22	44679	Mounting Bracket	1
23	53278	Screw SHCS M04-0.70 x 20	2
24	44680	Time Relay	1
25	53354	Screw PHMS M05-0.80 x 10	2
26	42071	Power Switch	1
27	REF	Ground Control Assembly (Refer To Page 50)	1
28	53067	Screw SHCS M05-0.80 x 40	2
29	44331	Battery	2
30	44681	Battery Keeper Bar	1
31	50030	Screw HHCS M08-1.25 x 20	4
32	53055	WSHR M08 Spring Washer	4
33	50001	WSHR M08 Standard Flat Washer	4

REF - Reference

Motor Controller Assembly

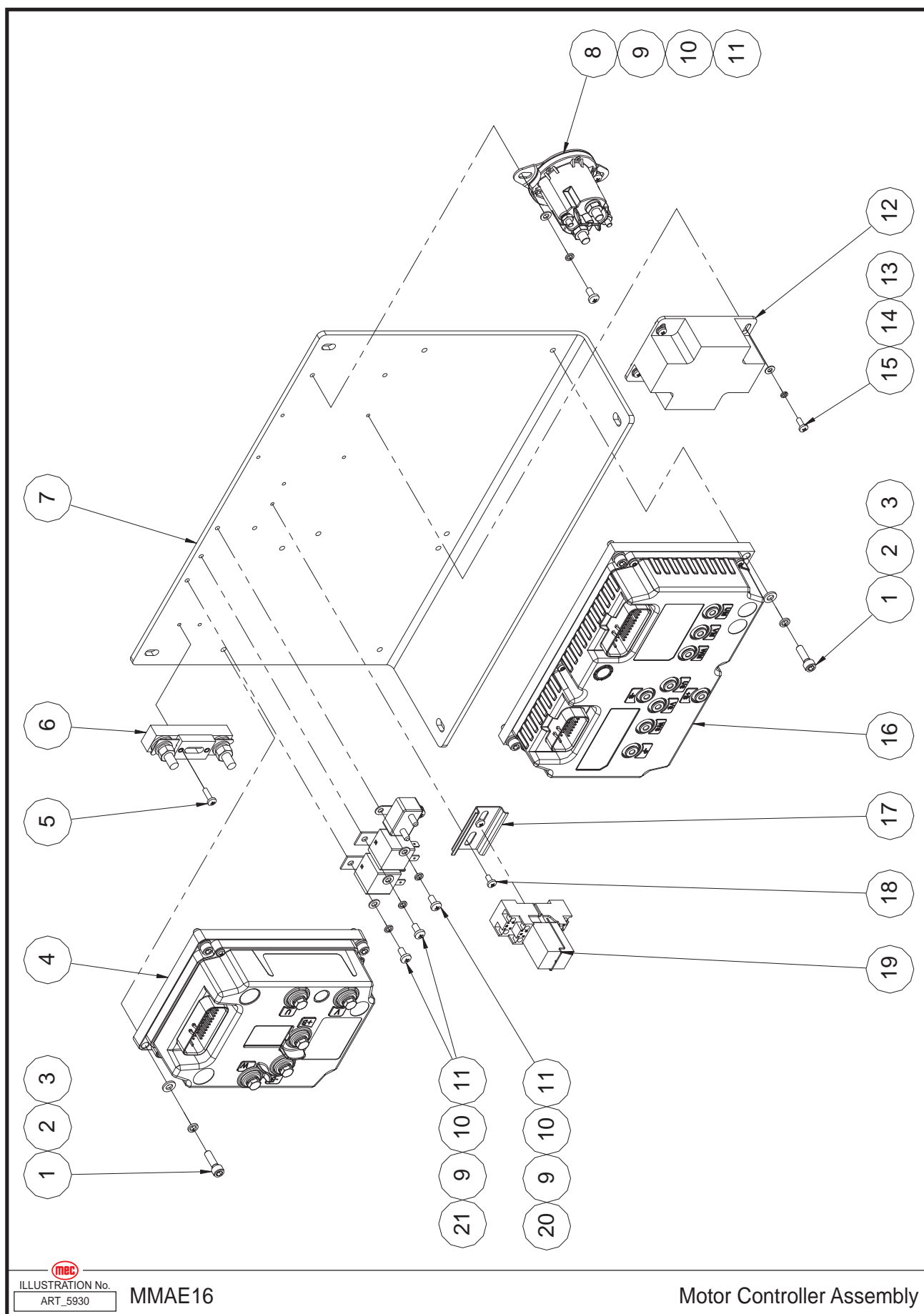


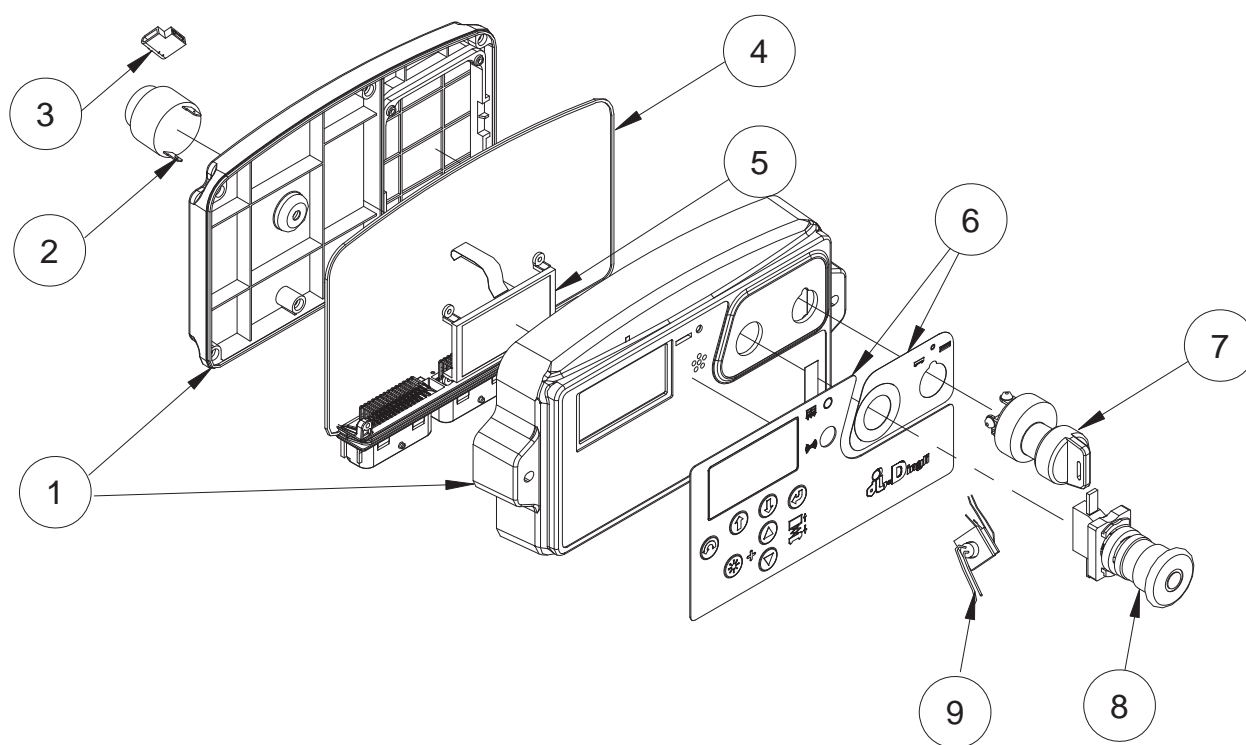
ILLUSTRATION No.
ART_5930

MMAE16

Motor Controller Assembly

Item	Part Number	Description	Qty.
1	53124	Screw SHCS M06-1.00 × 20	8
2	53046	WSHR M06 Spring Washer	8
3	50000	WSHR M06 Standard Flat Washer	8
4	44682	Motor Controller	1
5	53419	Screw PHMS M04-0.70 × 14	2
6	41251	150A Fuse Assembly	1
--	44031	150A Fuse	1
--	41092	Fuse Seat	1
7	44683	Mounting Plate	1
8	44684	DC Contactor	1
9	53038	WSHR M05 Standard Flat Washer	6
10	53043	WSHR M05 Spring Washer	6
11	53354	Screw PHMS M05-0.80 × 10	6
12	44685	Motor Controller, Steer	1
13	50284	WSHR M04 Standard Flat Washer	4
14	53062	WSHR M04 Spring Washer	4
15	53259	Screw PHMS M04-0.70 × 10	4
16	44686	Motor Controller	1
17	44687	Terminal Rail	1
18	53276	Screw PHMS M04-0.70 × 8	2
19	44688	Relay	1
20	44689	Circuit Breaker	1
21	41334	Relay	2

Ground Control Assembly



Item	Part Number	Description	Qty.
--	48423	Ground Control Assembly	1
1	44690	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

Chassis Accessory Installation

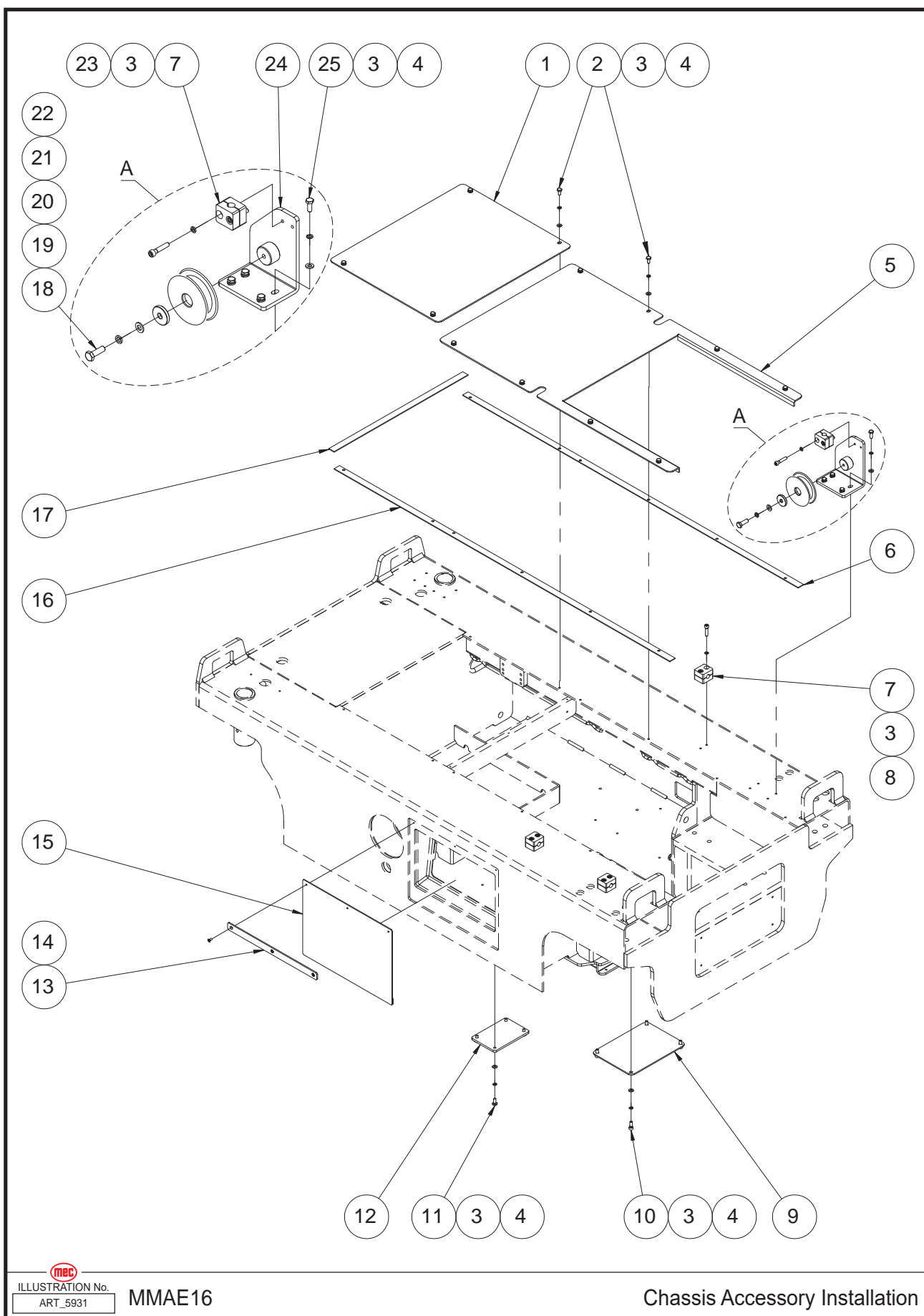


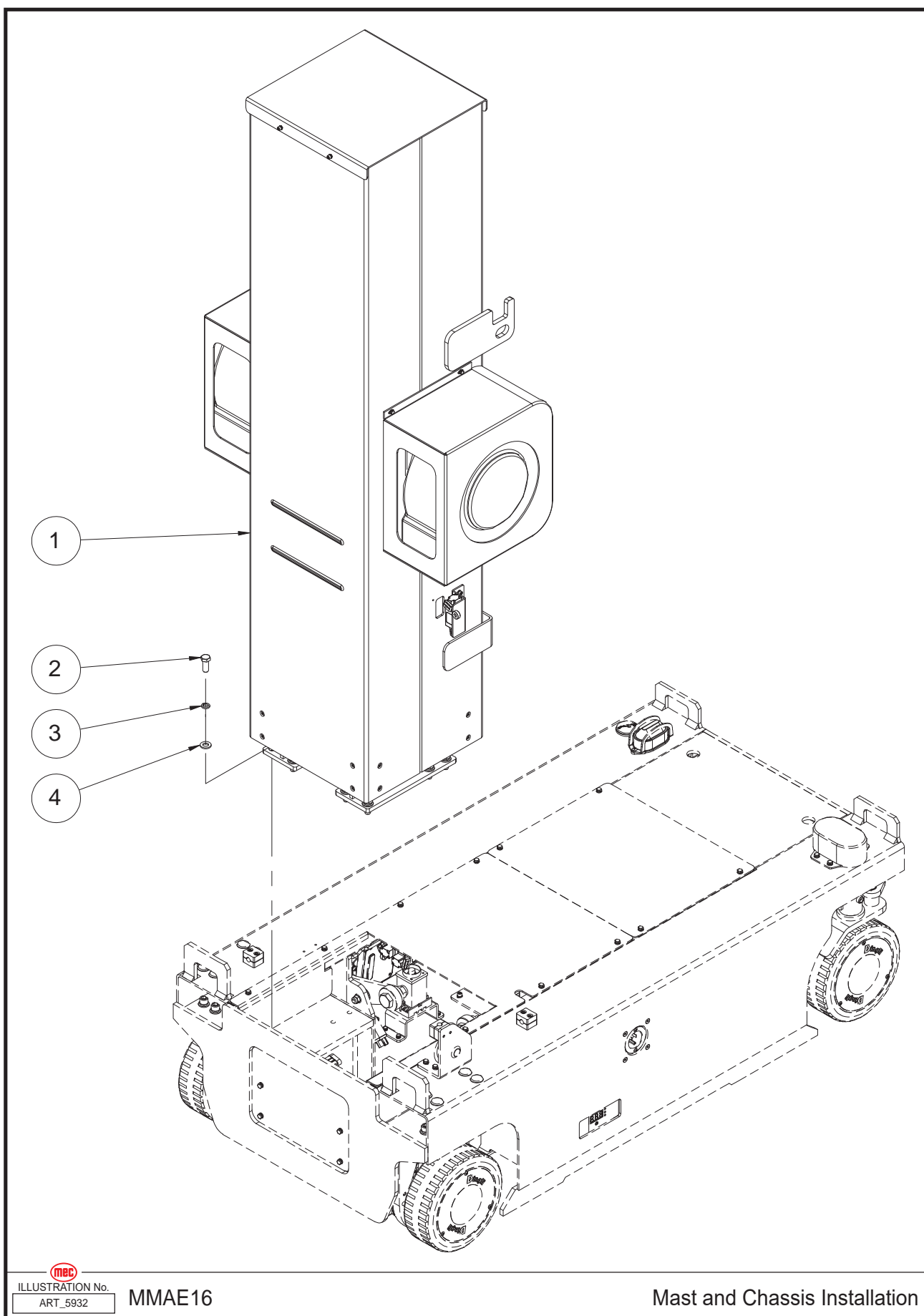
ILLUSTRATION No.
ART_5931

MMAE16

Chassis Accessory Installation

Item	Part Number	Description	Qty.
1	44695	Cover	1
2	53104	Screw HHCS M06-1.00 × 12	12
3	53046	WSHR M06 Spring Washer	44
4	50000	WSHR M06 Standard Flat Washer	36
5	44696	Cover	1
6	44697	Sealing Strip	1
7	44698	Wire Clip	4
8	53123	Screw SHCS M06-1.00 × 25	6
9	44699	Cover	1
10	53138	Screw SHCS M06-1.00 × 16	4
11	53208	Screw PHMS M06-1.00 × 14	16
12	44700	Rubber Pad	4
13	44701	Plate	1
14	53348	Screw THMS M04-0.70 × 10	3
15	44702	Cover	1
16	44703	Sealing Strip	1
17	44704	Sealing Strip	1
18	50031	Screw HHCS M08-1.25 × 25	1
19	53055	WSHR M08 Spring Washer	1
20	50001	WSHR M08 Standard Flat Washer	1
21	44705	Washer	1
22	44706	Pulley	1
23	53207	Screw SHCS M06-1.00 × 30	2
24	44707	Pulley Bracket	1
25	50445	Screw HHCS M06-1.00 × 16	4

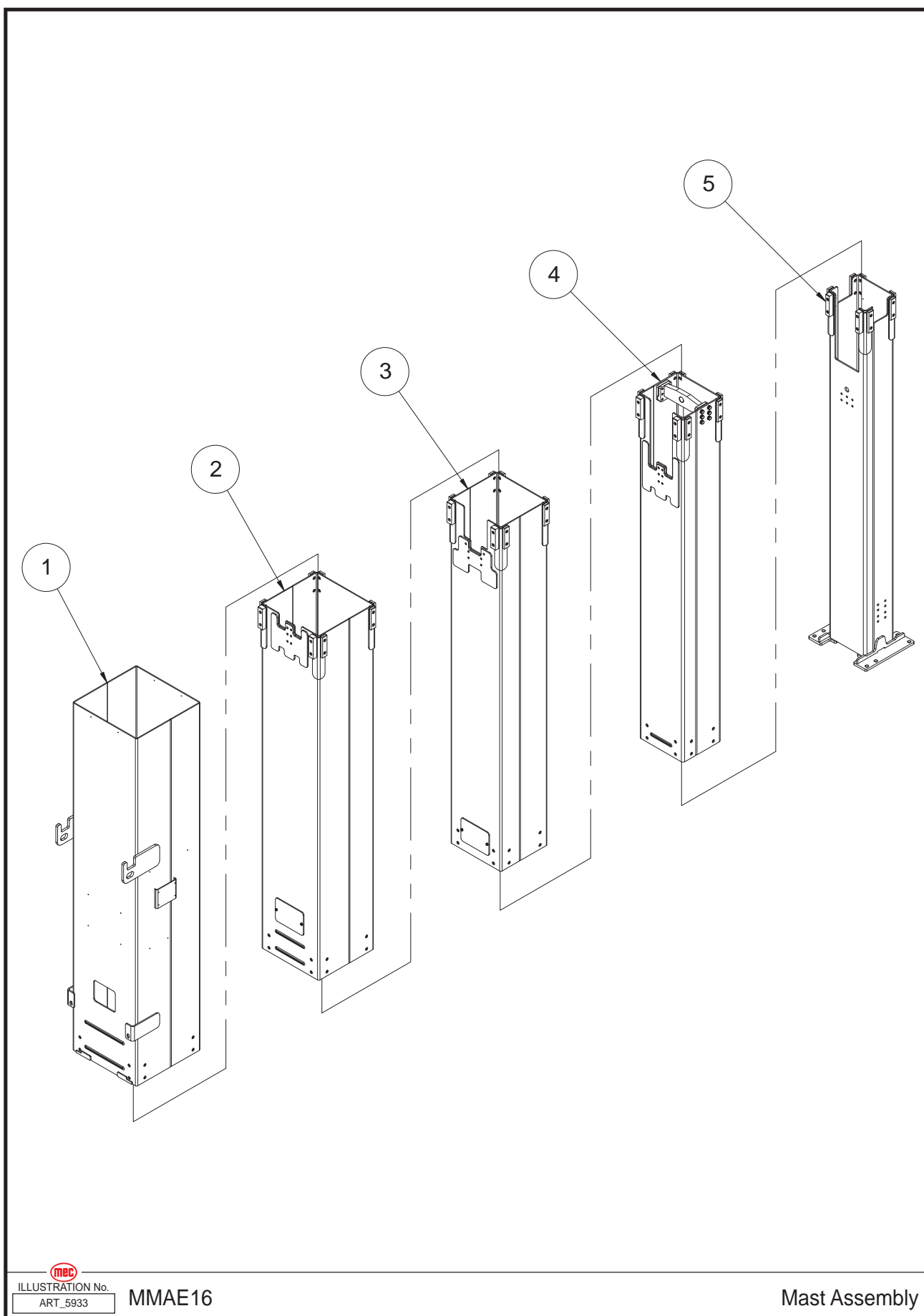
Mast and Chassis Installation



Item	MEC	Description	Qty.
1	REF	Mast Assembly (Refer To Page 56)	1
2	50049	Nut NNYL M10 x 1.50	2
3	50002	WSHR M10 Standard Flat Washer	4
4	50421	Screw HHCS M10-1.50 x 60	2

REF - Reference

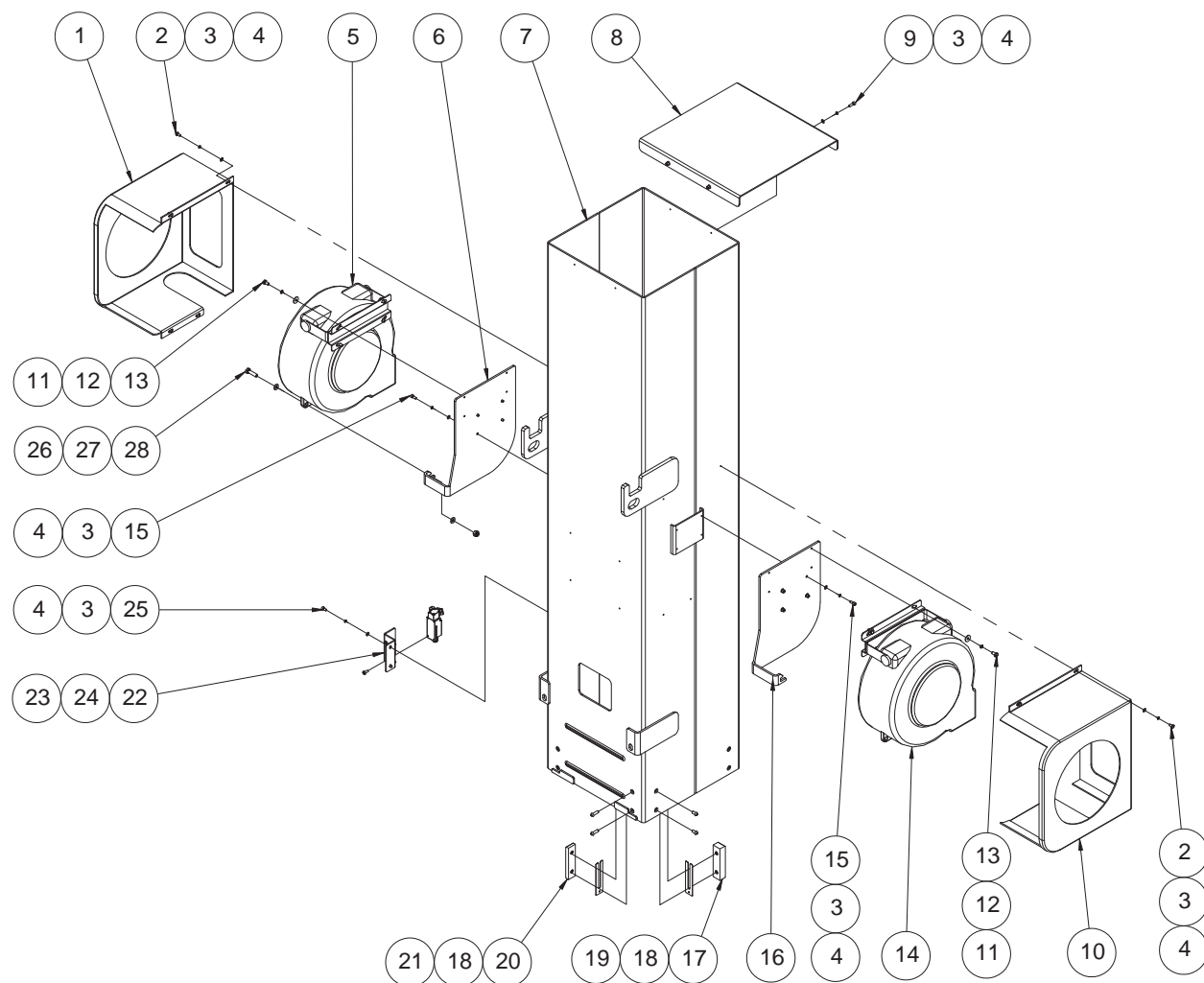
Mast Assembly



Item	Part Number	Description	Qty.
1	REF	Mast 1 Assembly (Refer To Page 58)	1
2	REF	Mast 2 Assembly (Refer To Page 60)	1
3	REF	Mast 3 Assembly (Refer To Page 62)	1
4	REF	Mast 4 Assembly (Refer To Page 64)	1
5	REF	Mast 5 Assembly (Refer To Page 66)	1

REF - Reference

Mast 1 Assembly



Item	Part Number	Description	Qty.
1	44708	Cover	1
2	53420	Screw HHCS M05-0.80 × 10	8
3	53043	WSHR M05 Spring Washer	22
4	53038	WSHR M05 Standard Flat Washer	22
5	44709	Cable Reel, Platform Power	1
6	44710	Reel Bracket	1
7	44711	Mast 1 Weldment	1
8	44712	Cover	1
9	50359	Screw SHCS M05-0.80 × 16	4
10	44713	Cover	1
11	50068	WSHR M06 Flat Fender Washer	8
12	53046	WSHR M06 Spring Washer	8
13	53104	Screw HHCS M06-1.00 × 12	8
14	44714	Cable Reel, Power to Platform	1
15	53116	Screw SHCS M05-0.80 × 12	8
16	44715	Reel Bracket	1
17	44716	Slide Block	2
18	53026	Screw BHCS M06-1.00 × 12	12
19	44717	Adjusting Plate	8
20	44718	Slide Block	6
21	53421	Screw BHCS M06-1.00 × 20	4
22	44719	Switch Bracket	1
23	53378	Screw PHMS M05-0.80 × 12	4
24	42074	Limit Switch	1
25	53173	Screw SHCS M05-0.80 × 10	2
26	50048	Nut NNYL M08 × 1.25	1
27	50001	WSHR M08 Standard Flat Washer	2
28	50032	Screw HHCS M08-1.25 × 30	1

Mast 2 Assembly

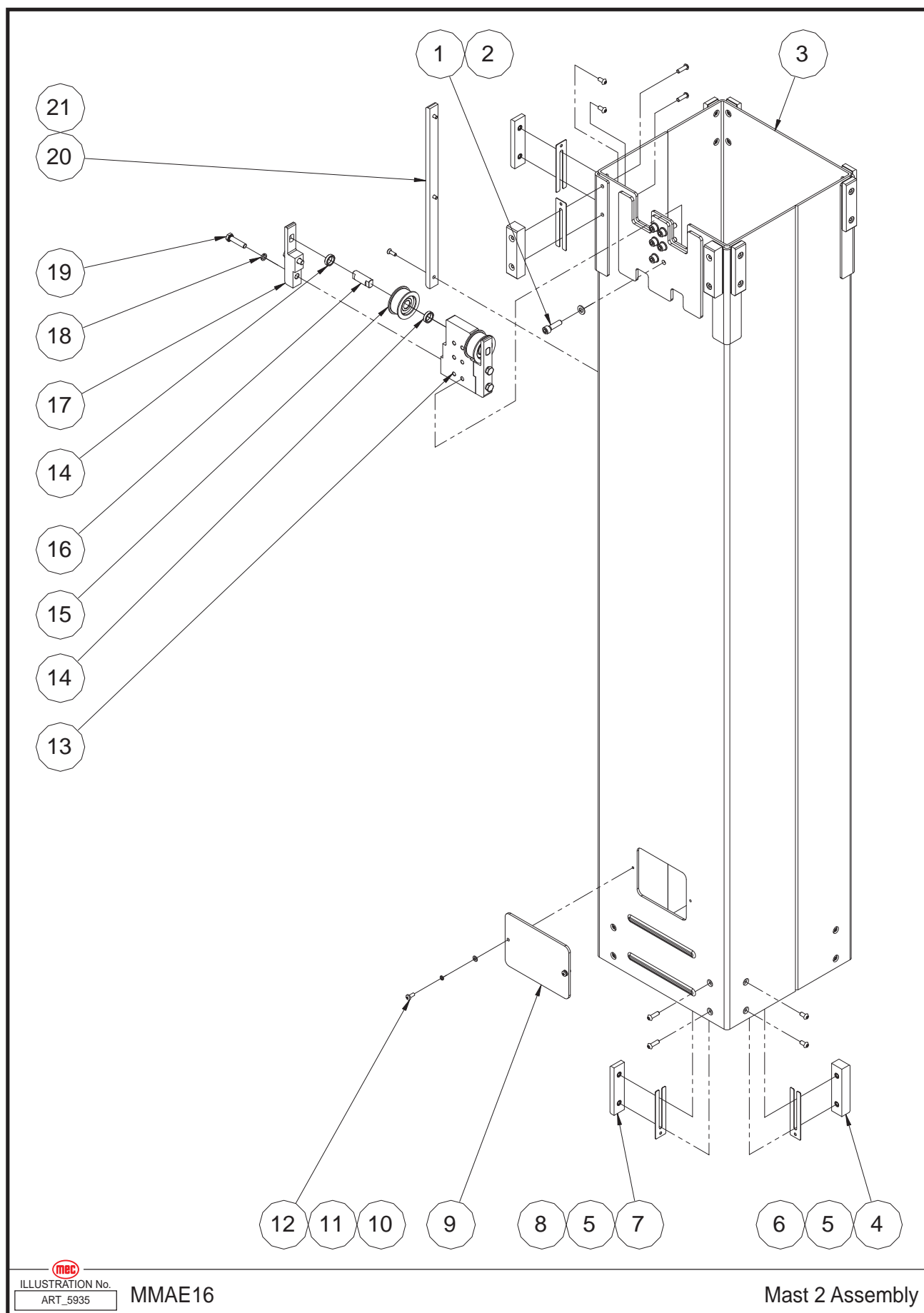


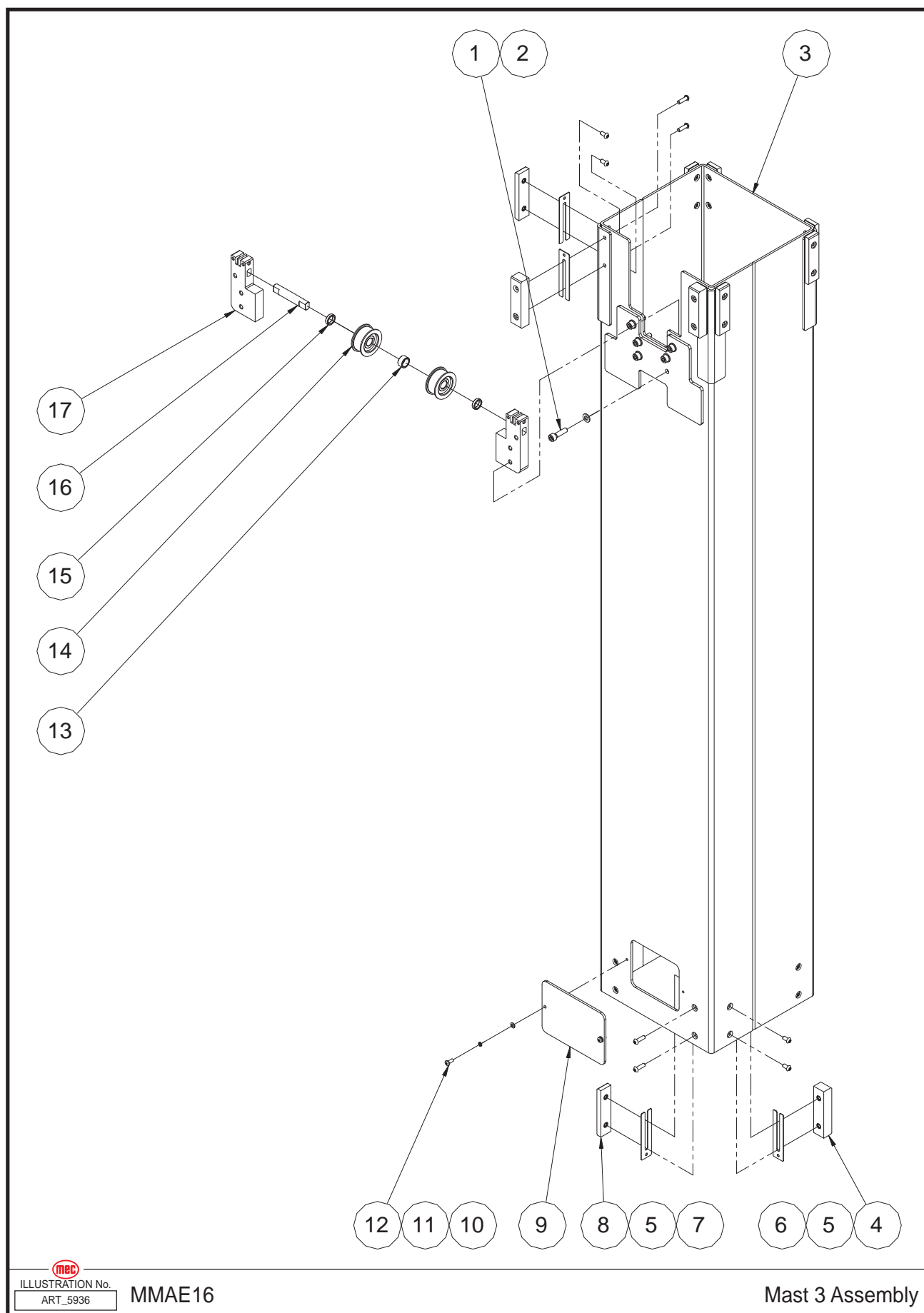
ILLUSTRATION No.
ART_5935

MMAE16

Mast 2 Assembly

Item	Part Number	Description	Qty.
1	53385	Screw SHCS M08-1.25 x 30	6
2	50001	WSHR M08 Standard Flat Washer	6
3	44720	Mast 2 Weldment	1
4	44716	Slide Block	4
5	44717	Adjusting Plate	16
6	53421	Screw BHCS M06-1.00 x 20	8
7	44718	Slide Block	12
8	53026	Screw BHCS M06-1.00 x 12	24
9	44721	Cover	1
10	53038	WSHR M05 Standard Flat Washer	2
11	53043	WSHR M05 Spring Washer	2
12	53378	Screw PHMS M05-0.80 x 12	2
13	44722	Pulley Bracket	1
14	44723	Washer	4
15	44724	Pulley	2
16	44725	Pin	2
17	44726	Lock Plate	2
18	53055	WSHR M08 Spring Washer	4
19	50282	Screw HHCS M08-1.25 x 35	4
20	44727	Signal Plate	1
21	53269	Screw CSCS M05-0.80 x 16	3

Mast 3 Assembly



Item	Part Number	Description	Qty.
1	53385	Screw SHCS M08-1.25 × 30	6
2	50001	WSHR M08 Standard Flat Washer	6
3	44728	Mast 3 Weldment	1
4	44716	Slide Block	4
5	44717	Adjusting Plate	16
6	53421	Screw BHCS M06-1.00 × 20	8
7	53026	Screw BHCS M06-1.00 × 12	24
8	44718	Slide Block	12
9	44721	Cover	1
10	53038	WSHR M05 Standard Flat Washer	2
11	53043	WSHR M05 Spring Washer	2
12	53378	Screw PHMS M05-0.80 × 12	2
13	44729	Washer	1
14	44724	Pulley	2
15	44723	Washer	2
16	44730	Pin	1
17	44731	Pulley Bracket	2

Mast 4 Assembly

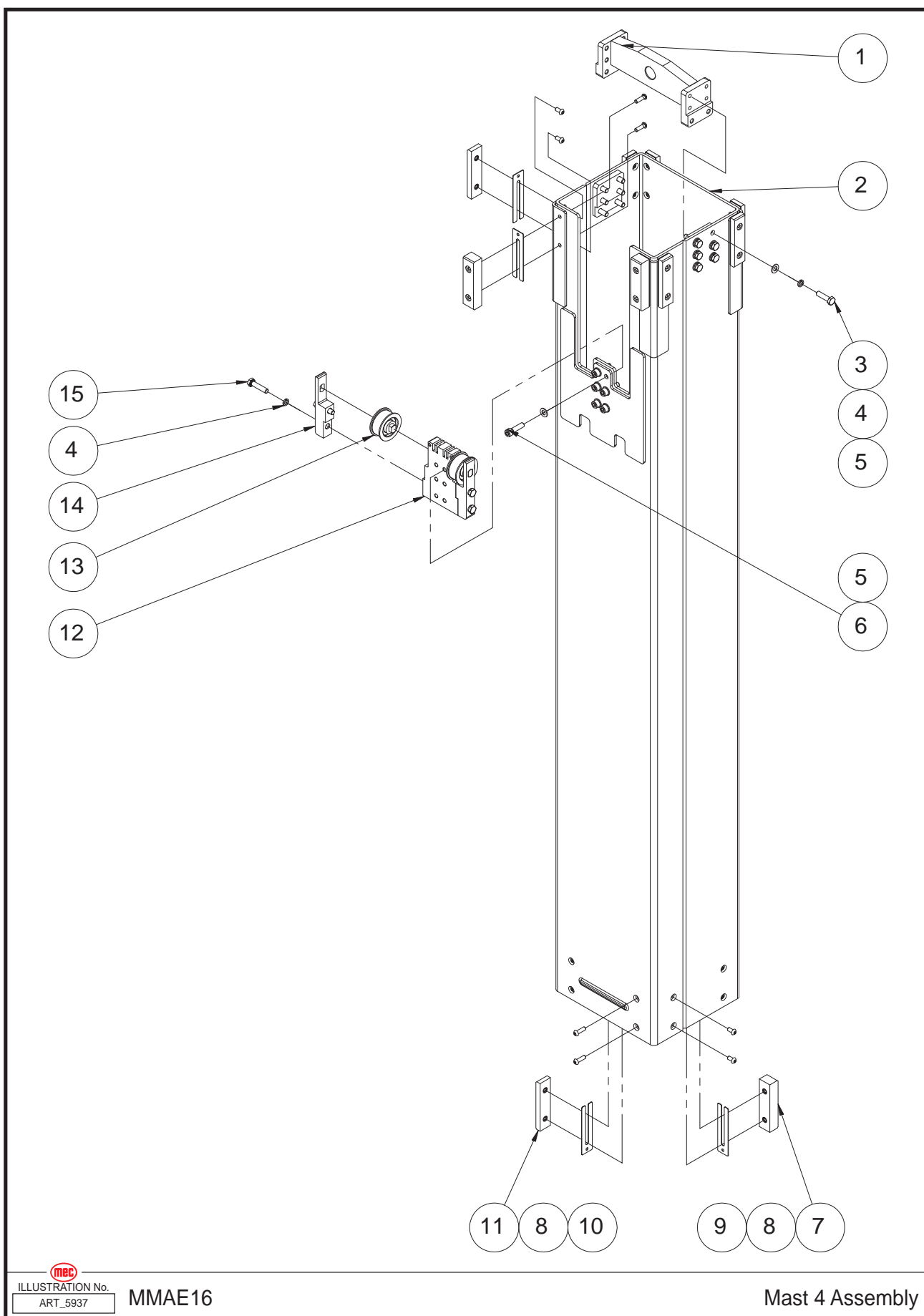


ILLUSTRATION No.
ART_5937

MMAE16

Mast 4 Assembly

Item	Part Number	Description	Qty.
1	44732	Support	1
2	44733	Mast 4 Weldment	1
3	50032	Screw HHCS M08-1.25 x 30	12
4	53055	WSHR M08 Spring Washer	16
5	50001	WSHR M08 Standard Flat Washer	18
6	53385	Screw SHCS M08-1.25 x 30	6
7	44716	Slide Block	4
8	44717	Adjusting Plate	16
9	53421	Screw BHCS M06-1.00 x 20	8
10	53026	Screw BHCS M06-1.00 x 12	24
11	44718	Slide Block	12
12	44734	Pulley Bracket	1
13	44735	Pulley	2
14	44726	Lock Plate	2
15	50282	Screw HHCS M08-1.25 x 35	4

Mast 5 Assembly

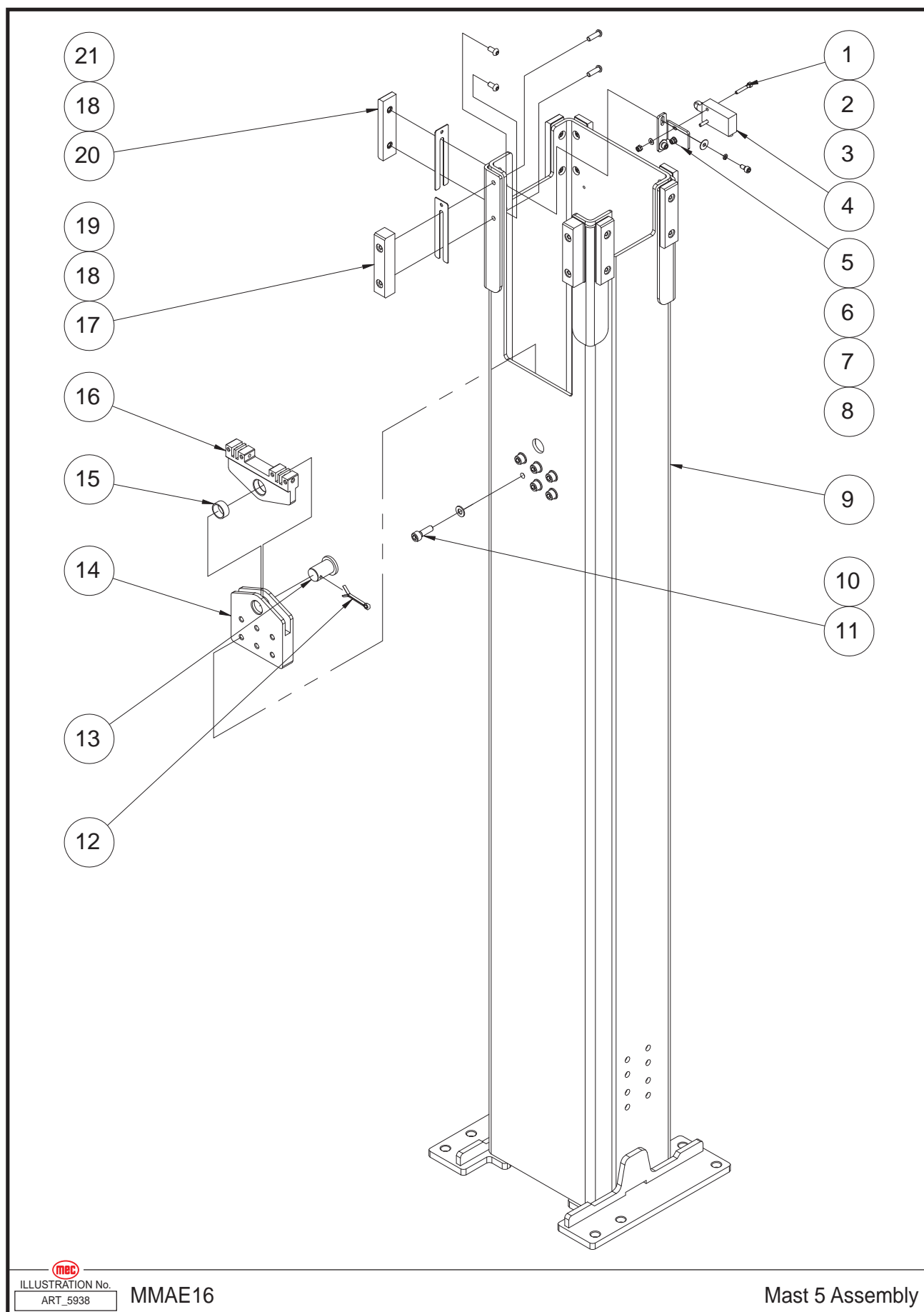


ILLUSTRATION No.
ART_5938

MMAE16

Mast 5 Assembly

Item	Part Number	Description	Qty.
1	53115	Screw SHCS M04-0.70 × 25	2
2	50284	WSHR M04 Standard Flat Washer	2
3	50285	Nut NNYL M04 × 0.70	2
4	44736	Limit Switch	1
5	44737	Switch Bracket	1
6	53173	Screw SHCS M05-0.80 × 10	2
7	53043	WSHR M05 Spring Washer	2
8	50525	WSHR M05 Flat Fender Washer	2
9	44738	Mast 5 Weldment	1
10	50001	WSHR M08 Standard Flat Washer	6
11	53210	Screw SHCS M08-1.25 × 25	6
12	44739	Cotter Pin	1
13	44740	Pin	1
14	44741	Rod Bracket	1
15	41214	Bearing	1
16	44742	Chain Terminal	1
17	44743	Slide Block	2
18	44717	Adjusting Plate	8
19	53421	Screw BHCS M06-1.00 × 20	4
20	44718	Slide Block	6
21	53026	Screw BHCS M06-1.00 × 12	12

1

2

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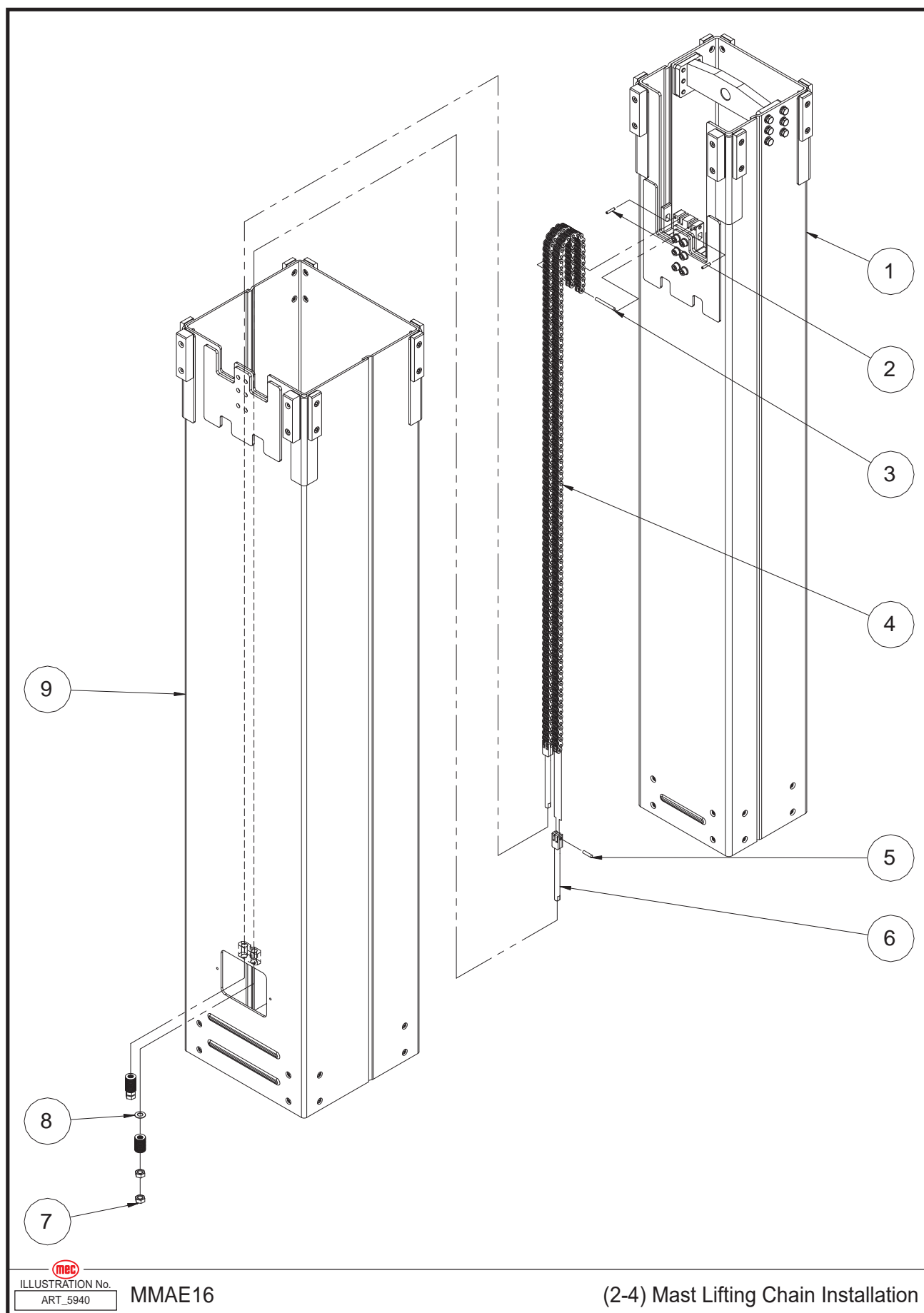
MMAE16

(1-3) Mast Lifting Chain Installation

Item	Part Number	Description	Qty.
1	REF	Mast 3 Assembly (Refer To Page 62)	1
2	44744	Pin	4
3	44389	Pin	4
4	44745	Chain	2
5	44746	Chain Terminal	2
6	53373	Nut NHEX M10-1.50	4
7	44747	Disc Spring	40
8	REF	Mast 1 Assembly (Refer To Page 58)	1

REF - Reference

(2-4) Mast Lifting Chain Installation

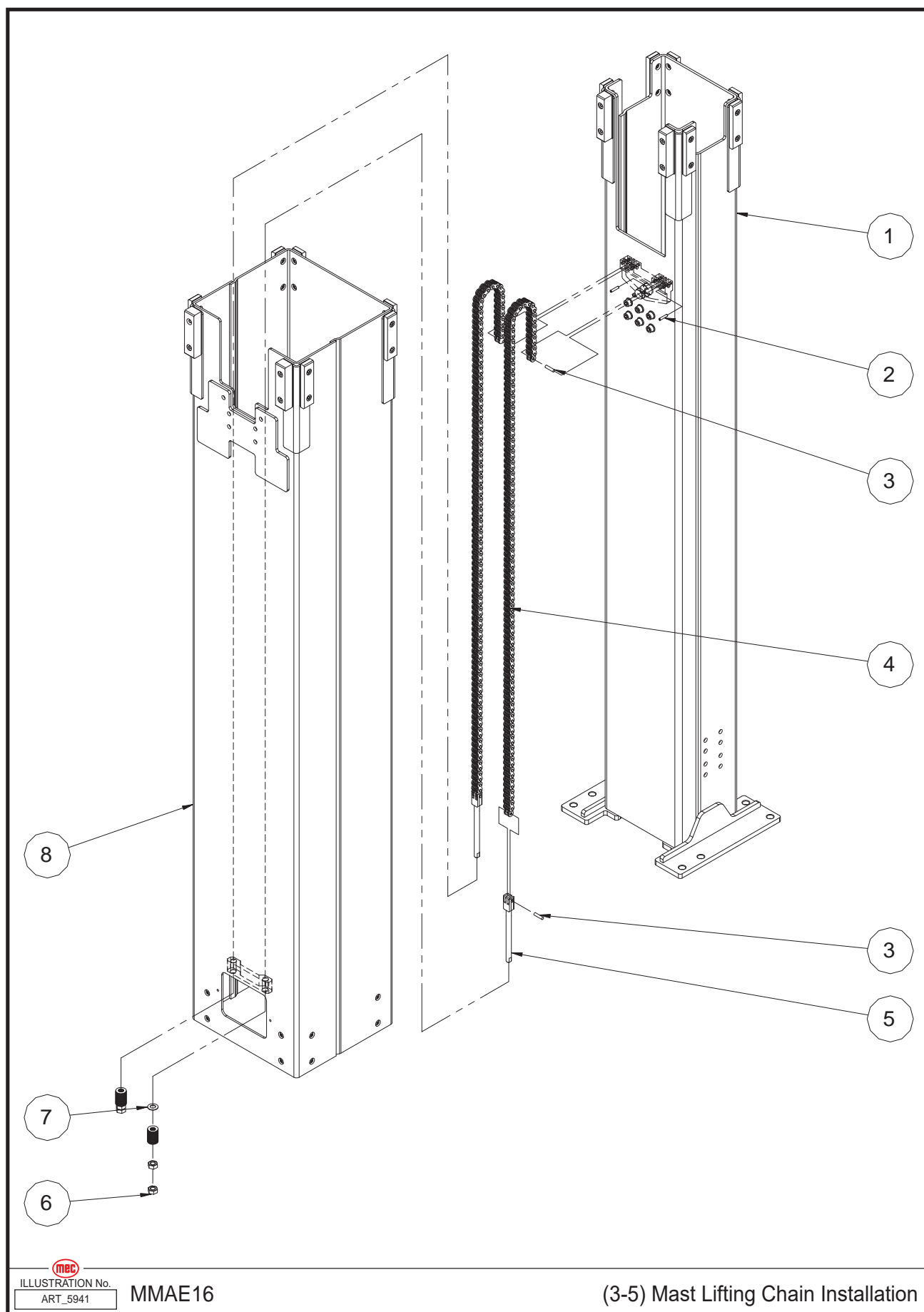


(2-4) Mast Lifting Chain Installation

Item	Part Number	Description	Qty.
1	REF	Mast 4 Assembly (Refer To Page 64)	1
2	44744	Pin	2
3	44748	Pin	1
4	44745	Chain	2
5	44389	Pin	2
6	44746	Chain Terminal	2
7	53373	Nut NHEX M10-1.50	4
8	44747	Disc Spring	40
9	REF	Mast 2 Assembly (Refer To Page 60)	1

REF - Reference

(3-5) Mast Lifting Chain Installation



Item	Part Number	Description	Qty.
1	REF	Mast 5 Assembly (Refer To Page 66)	1
2	44744	Pin	4
3	44389	Pin	4
4	44745	Chain	2
5	44746	Chain Terminal	2
6	53373	Nut NHEX M10-1.50	4
7	44747	Disc Spring	40
8	REF	Mast 3 Assembly (Refer To Page 62)	1

REF - Reference

Electric Cylinder Installation

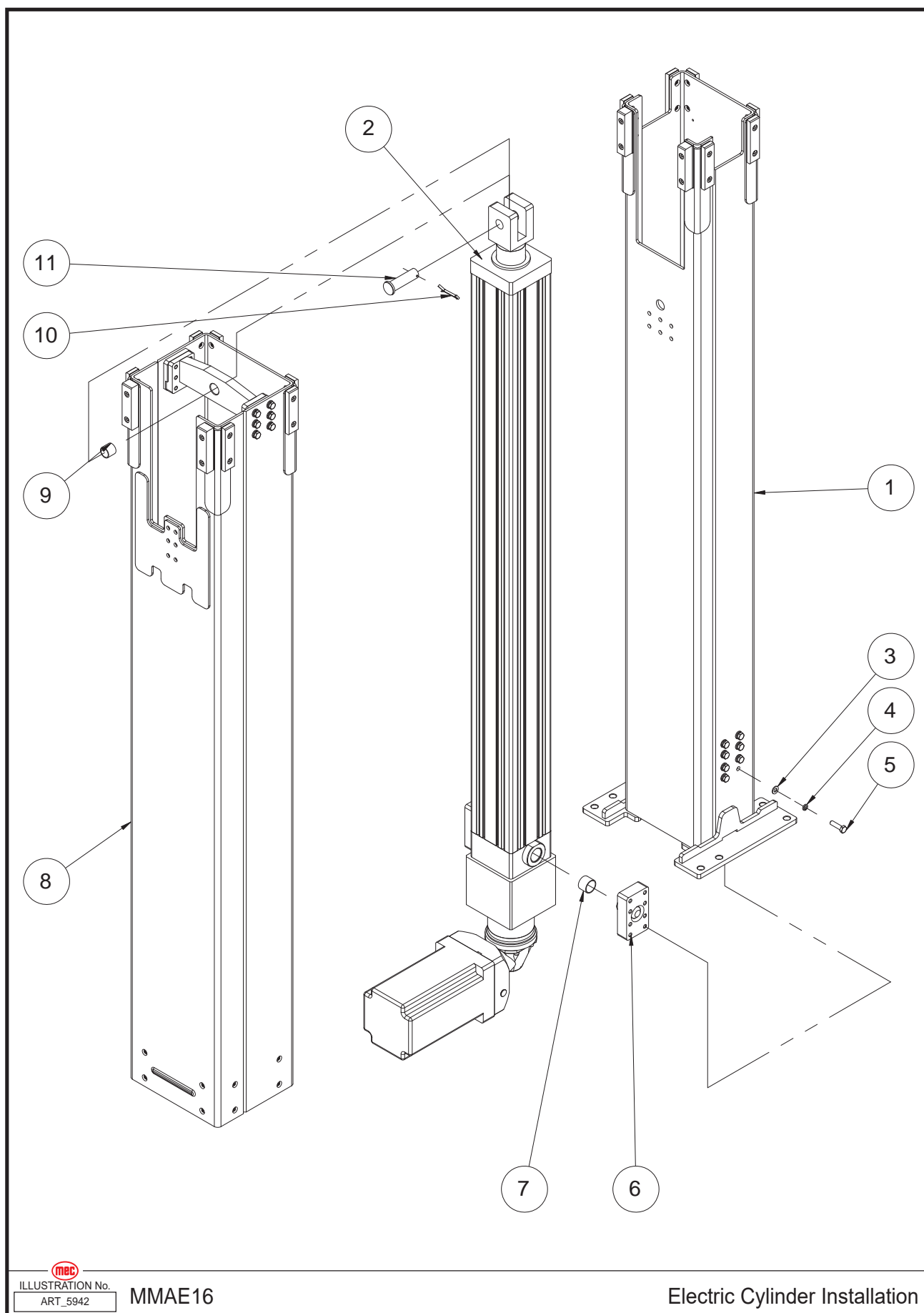


ILLUSTRATION No.
ART_5942

MMAE16

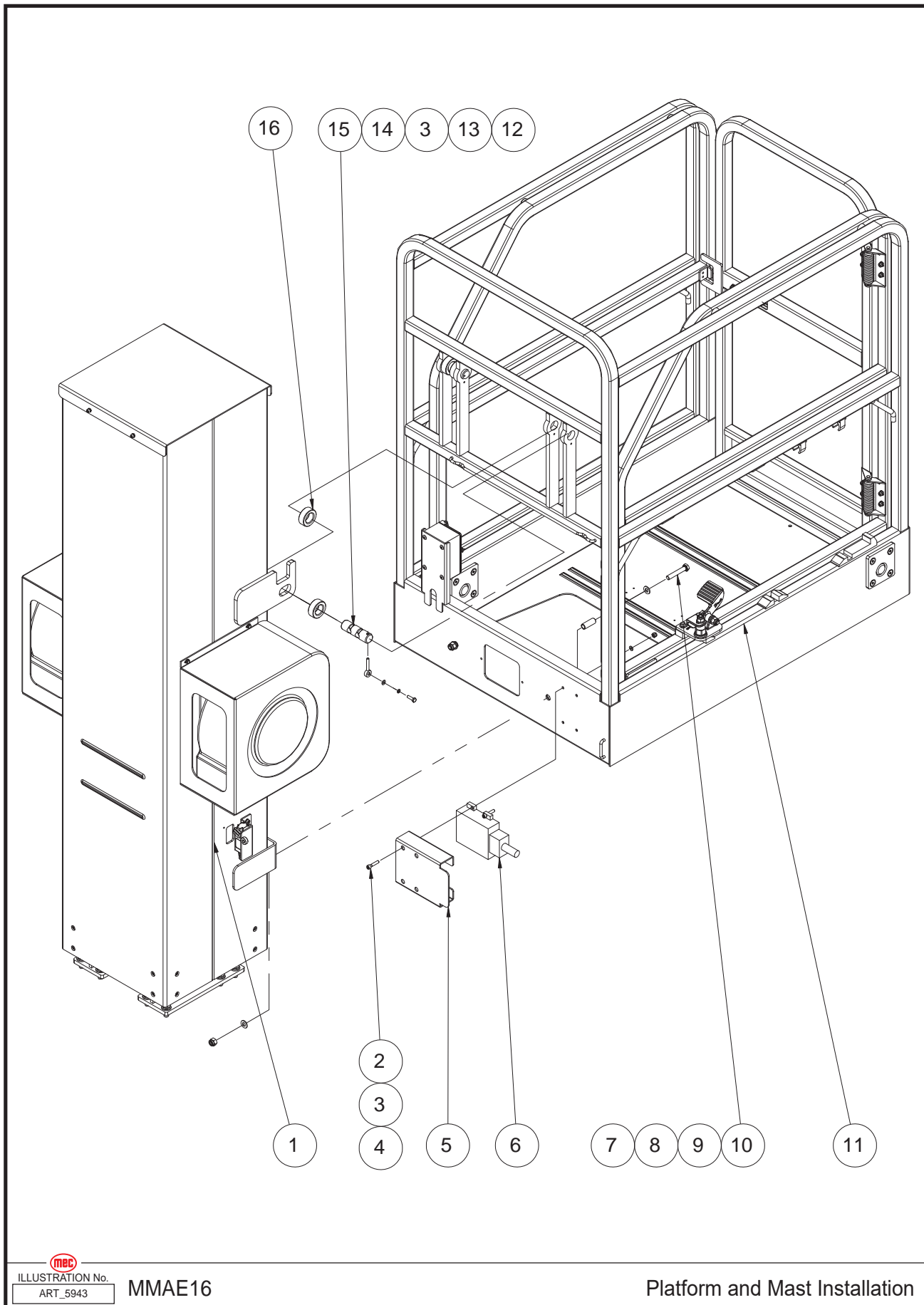
Electric Cylinder Installation



Item	Part Number	Description	Qty.
1	REF	Mast 5 Assembly (Refer To Page 66)	1
2	44749	Electric Cylinder Assembly	1
--	44750	Electric Cylinder	1
--	44751	Reducer	1
--	44752	Brake (Serial 17400100–17401841 & Serial 17402087–17402101)	1
--	47499	Brake (Serial 17401842–17402086 & Serial 17402100 to current)	1
--	44753	Motor	1
3	50001	WSHR M08 Standard Flat Washer	16
4	53055	WSHR M08 Spring Washer	16
5	50032	Screw HHCS M08-1.25 x 30	16
6	44754	Electric Cylinder Bracket	2
7	41046	Bearing	2
8	REF	Mast 4 Assembly (Refer To Page 64)	1
9	41037	Bearing	1
10	44739	Cotter Pin	1
11	44755	Pin	1

REF - Reference

Platform and Mast Installation



Item	Part Number	Description	Qty.
1	REF	Mast Assembly (Refer To Page 56)	1
2	53207	Screw SHCS M06-1.00 x 30	4
3	50000	WSHR M06 Standard Flat Washer	6
4	50047	Nut NNYL M06-1.00	4
5	44756	Cover	1
6	44757	Load Sensor Amplifier	1
7	50049	Nut NNYL M10 x 1.50	2
8	50002	WSHR M10 Standard Flat Washer	4
9	44758	Spacer Sleeve	2
10	50421	Screw HHCS M10-1.50 x 60	2
11	REF	Platform Assembly (Refer To Pages 78 and 80)	1
12	50028	Screw HHCS M06-1.00 x 20	2
13	53046	WSHR M06 Spring Washer	2
14	42449	Pin	2
15	44759	Sensor	2
16	44760	Sheath	4

REF - Reference

Main Platform Assembly

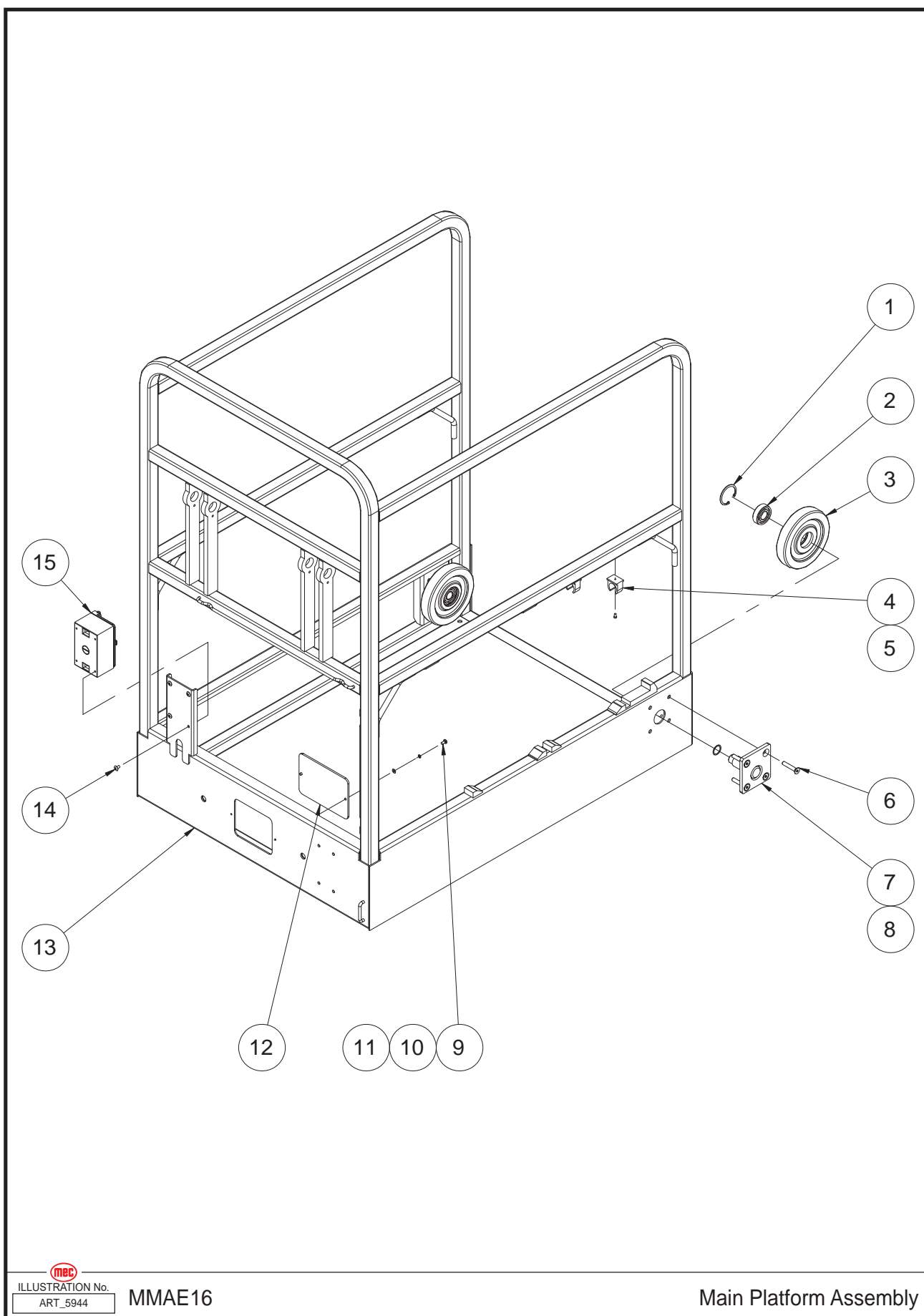


ILLUSTRATION No.
ART_5944

MMAE16

Main Platform Assembly

Item	Part Number	Description	Qty.
1	43618	Circlips	2
2	41131	Bearing	2
3	43617	Roller	2
4	41134	Clip	2
5	53276	Screw PHMS M04-0.70 × 8	2
6	53275	Screw CSCS M08-1.25 × 45	8
7	41360	Roller Bracket	2
8	44761	Washer	2
9	53354	Screw PHMS M05-0.80 × 10	2
10	53038	WSHR M05 Standard Flat Washer	2
11	53043	WSHR M05 Spring Washer	2
12	44721	Cover	1
13	44762	Main Deck Weldment	1
14	53265	Screw THMS M05-0.80 × 10	4
15	91597	(AC Socket?) Outlet Box	1
--	91598	Outlet Cover	1
--	92007	Outlet, 15A 120V GFCI	1
--	53040	Screw, HHSM #8 x 0.5	4
--	92008	Strain Relief	1

Platform Extension Assembly

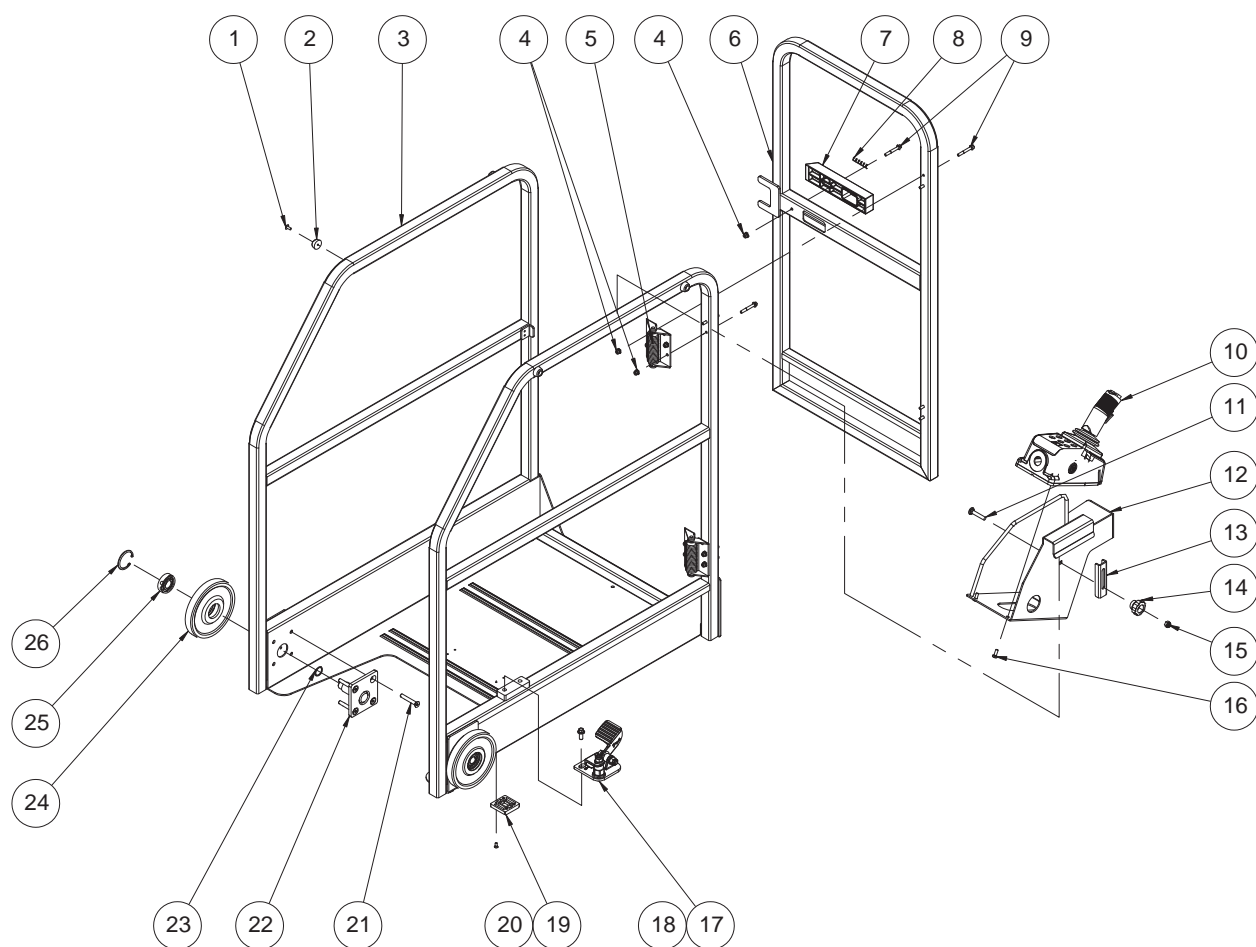


ILLUSTRATION No.
ART_5945

MMAE16

Platform Extension Assembly



Item	Part Number	Description	Qty.
1	53224	Screw THMS M05-0.80 x 12	4
2	41120	Bumper	4
3	44763	Extension Deck Weldment	1
4	50568	Nut NNYL M06-1.00 Flange	9
5	44764	Hinge	2
6	44765	Entry Gate	1
7	41278	Handle	1
8	41277	Spring	1
9	53360	Screw HHCS M06-1.00 x 45 Flange	9
10	REF	Platform Control Box Assembly (Refer To Page 84)	1
11	53248	Screw CARB M08-1.25 x 45	1
12	44766	Platform Control Box Mount Bracket	1
13	42500	Locating Plate	1
14	42501	Handle	1
15	50048	Nut NNYL M08 x 1.25	1
16	53231	Screw PHMS M06-1.00 x 16	4
17	REF	Platform Locking Device Assembly (Refer To Page 82)	1
18	53257	Screw HHCS M08-1.25 x 20 Serrated Flange	2
19	41284	Slide Pad	2
20	53279	Screw CSCS M05-0.80 x 12	8
21	53280	Screw CSCS M08-1.25 x 55	8
22	41360	Roller Bracket	2
23	44761	Washer	2
24	41141	Roller 2	2
25	41131	Bearing	2
26	43618	Circlips	2

REF - Reference

Platform Locking Device Assembly

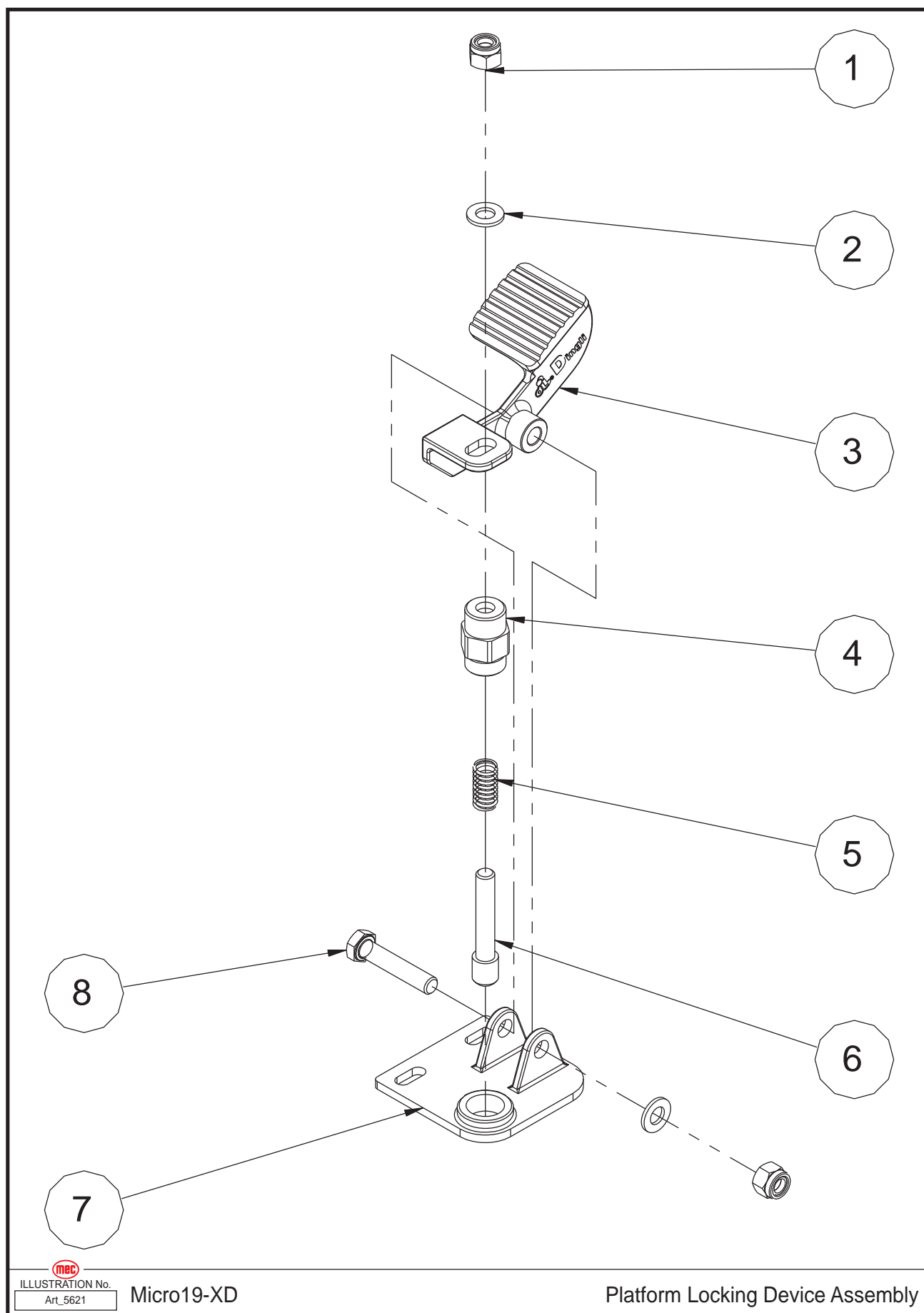


ILLUSTRATION No.
Art_5621

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 Box Assembly

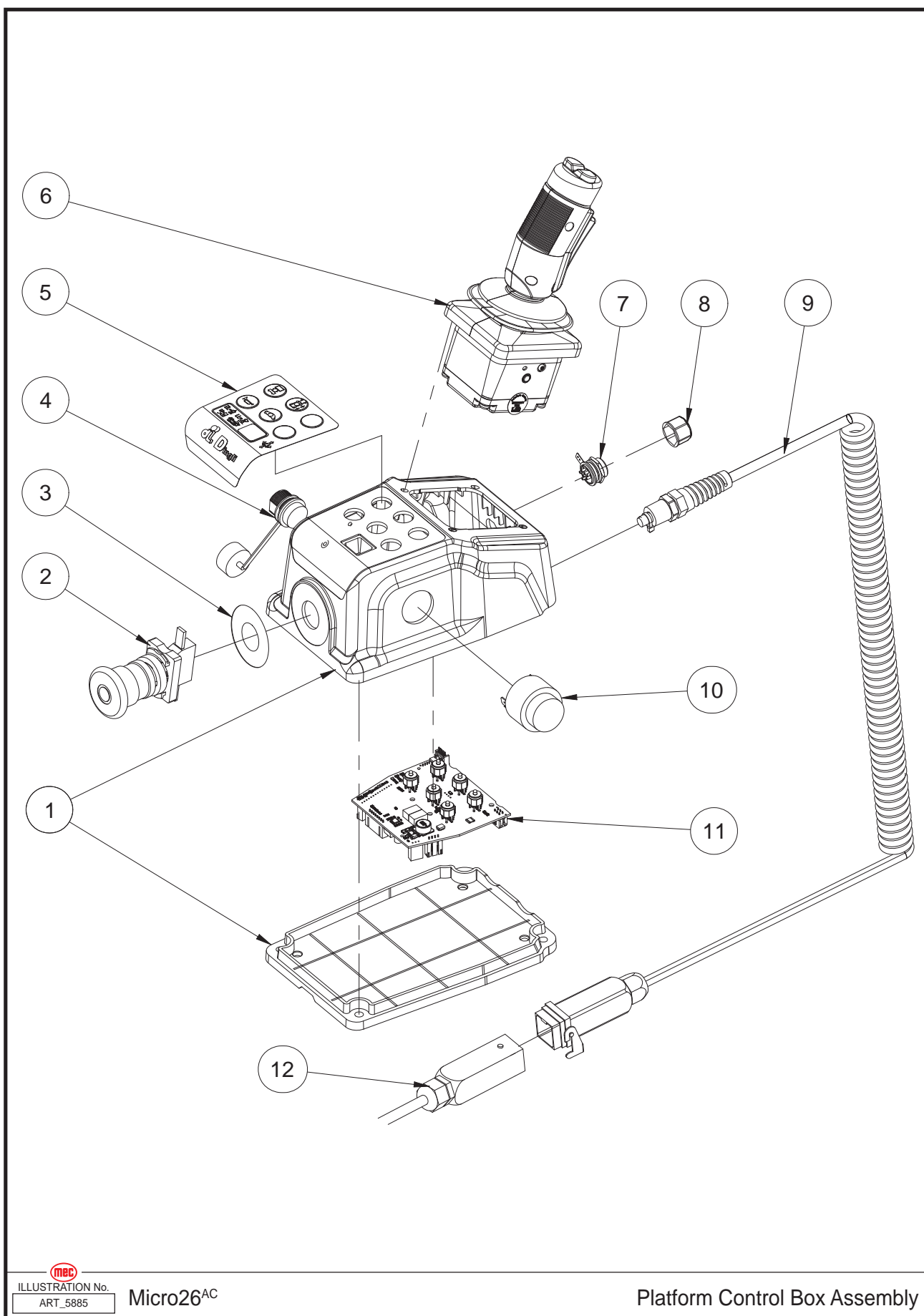


ILLUSTRATION No.
ART_5885

Micro26^{AC}

Platform Control Box Assembly

Item	Part Number	Description	Qty.
--	46315	Platform Control Box Assembly	1
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	41149	Joystick	1
--	43621	Function Enable Switch	1
--	41150	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	44777	Platform Control Box Harness	1
--	44778	Housing	1
--	44779	Male Insert	1
--	44780	Male Contacts	5
--	43627	Cable Gland	1

Electrical Harness

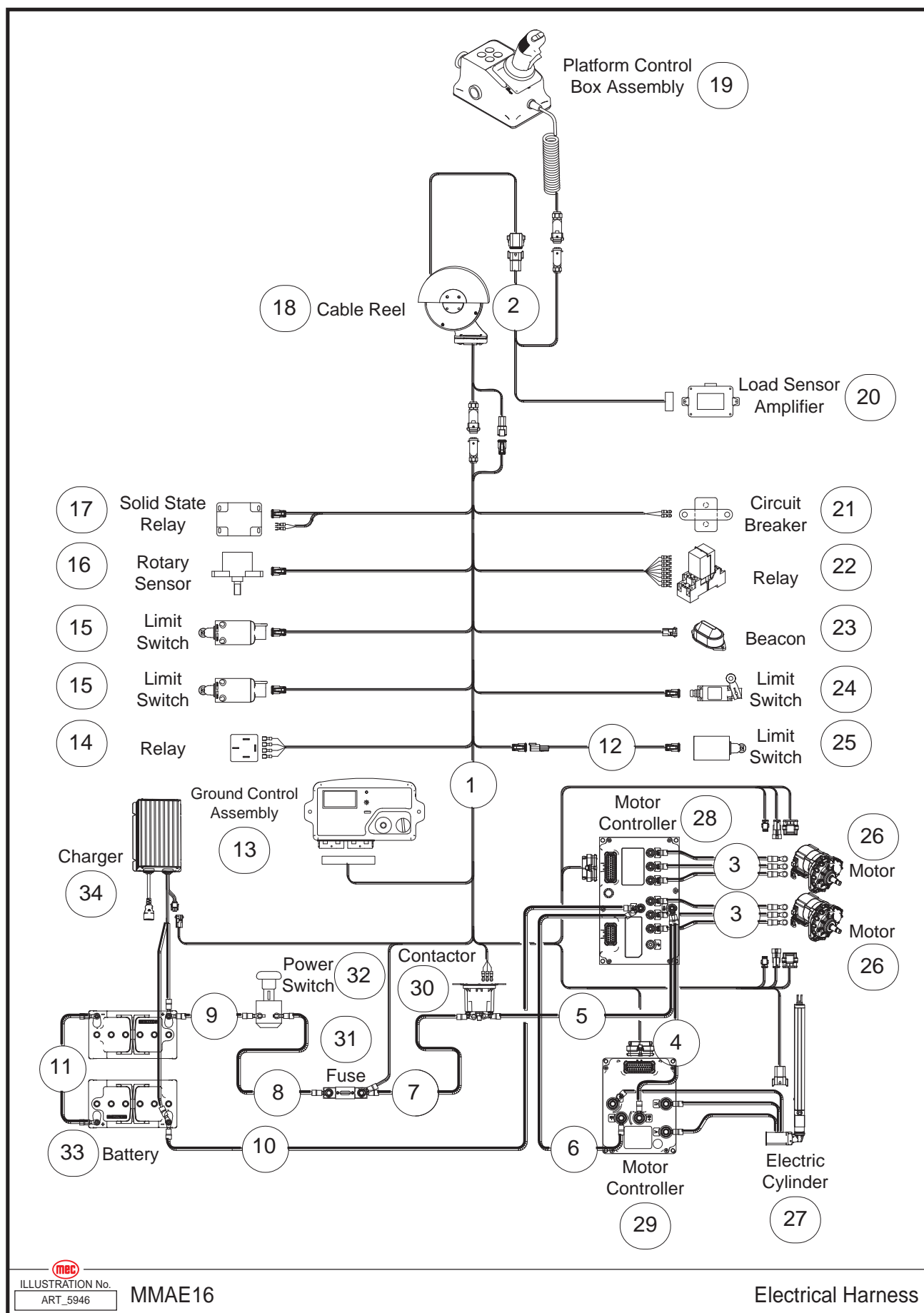


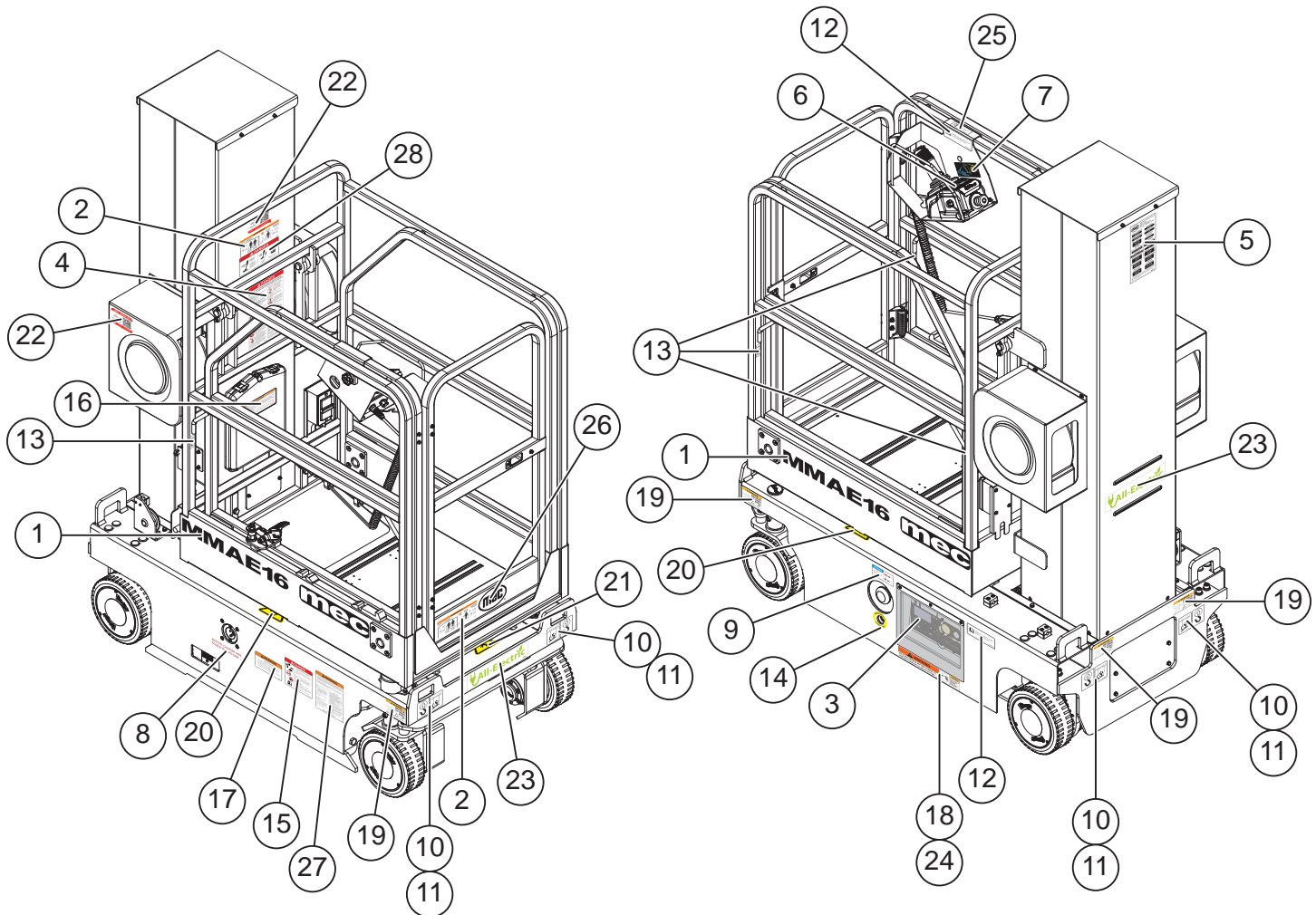
ILLUSTRATION No.
ART_5946

MMAE16

Electrical Harness

Item	Part Number	Description	Qty.
1	44781	ECU Harness	1
2	44777	Platform Control Box Harness	1
3	44782	Drive Motor Harness	2
4	44783	Lift Motor Controller Positive Harness	1
5	44784	Drive Motor Controller Positive Harness	1
6	44785	Lift Motor Controller Negative Harness	1
7	44786	DC Contactor Harness	1
8	44787	Fuse Harness	1
9	44788	Battery Positive Harness	1
10	44789	Drive Motor Controller Negative Harness	1
11	44790	Battery Harness	1
12	44791	Lift Up Limit Switch Harness	1
13	48423	Ground Control Assembly	1
14	41334	Relay	1
15	44671	Limit Switch, Pothole	2
16	41195	Rotary Sensor	1
17	44685	Motor Controller, Steer	1
18	44709	Cable Reel, Power to Platform	1
19	44793	Platform Control Box Assembly	1
20	44794	Load Sensor Amplifier	1
21	44689	Circuit Breaker	1
22	44688	Relay	1
23	41310	Beacon	1
24	42074	Limit Switch	1
25	44736	Limit Switch	1
26	44655	Motor	2
27	44639	Electric Cylinder	1
28	44686	Motor Controller	1
29	44682	Motor Controller	1
30	44684	DC Contactor	1
31	44031	150A Fuse	1
32	42071	Power Switch	1
33	44331	Battery	2
34	42904	Charger	1

Decals



<p>1</p> <p>MMAE16 mec</p> <p>95731 Qty. - 2</p>	<p>2</p> <p>WARNING</p> <p>INDOOR - 1 PERSON 500 LBS (227 KG) OUTDOOR 1 PERSON 500 LBS (227 KG)</p> <p>95835 Qty. - 2</p>	<p>3</p> <p>5700 Controller</p> <p>44795 Qty. - 1</p>	<p>4</p> <p>DANGER</p> <p>943885 Qty. - 1</p>	<p>5</p> <p>MEC</p> <p>95215 Qty. - 1</p>
<p>6</p> <p>44797 Qty. - 1</p>	<p>7</p> <p>DRIVE FORWARD/LOWER</p> <p>DRIVE REVERSE/LIFT UP</p> <p>94120 Qty. - 1</p>	<p>8</p> <p>BATTERY CHARGER AND POWER TO PLATFORM</p> <p>94659 Qty. - 1</p>	<p>9</p> <p>NOTICE</p> <p>Cut off the power when the machine is repaired or not used for long period.</p> <p>943910 Qty. - 1</p>	<p>10</p> <p>9311015</p> <p>41635 Qty. - 4</p>
<p>11</p> <p>9311013</p> <p>41634 Qty. - 4</p>	<p>12</p> <p>Refer the operator to the instructions for use.</p> <p>9314013</p> <p>41639 Qty. - 2</p>	<p>13</p> <p>Restraint only 1 Occurrence</p> <p>9414123UM</p> <p>41648 Qty. - 4</p>	<p>14</p> <p>EMERGENCY LOWERING</p> <p>95847 Qty. - 1</p>	<p>15</p> <p>DANGER</p> <p>Explosion/Burn Hazard</p> <p>41641 Qty. - 1</p>
<p>16</p> <p>WARNING</p> <p>8911 Qty. - 1</p>	<p>17</p> <p>WARNING</p> <p>Tip-over Hazard</p> <p>44844 Qty. - 1</p>	<p>18</p> <p>WARNING</p> <p>90732 Qty. - 1</p>	<p>19</p> <p>WARNING</p> <p>MAXIMUM TIE-DOWN ANGLE 30°</p> <p>94362 Qty. - 4</p>	<p>20</p> <p>9910 Qty. - 2</p>
<p>21</p> <p>91850 Qty. - 1</p>	<p>22</p> <p>MEC - Model Info</p> <p>95837 Qty. - 2</p>	<p>23</p> <p>All-Electric</p> <p>95626 Qty. - 2</p>	<p>24</p> <p>WARNING</p> <p>42534 Qty. - 1</p>	<p>25</p> <p>Platform controller normal position.</p> <p>9314015</p> <p>41640 Qty. - 1</p>
<p>26</p> <p>mec</p> <p>94115 Qty. - 1</p>	<p>27</p> <p>WARNING</p> <p>41649 Qty. - 1</p>	<p>28</p> <p>DANGER</p> <p>44598 Qty. - 1</p>		



MEC Parts Order Form

Phone: 559-842-1523

Fax: 559-400-6723

Email: Parts@mecawp.com

Please Fill Out Completely:

Date: _____

Account: _____

Bill to: _____

Ordered By: _____

Your Fax No.: _____

Ship to: _____

Purchase Order Number _____

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

Ship VIA _____

***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.



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