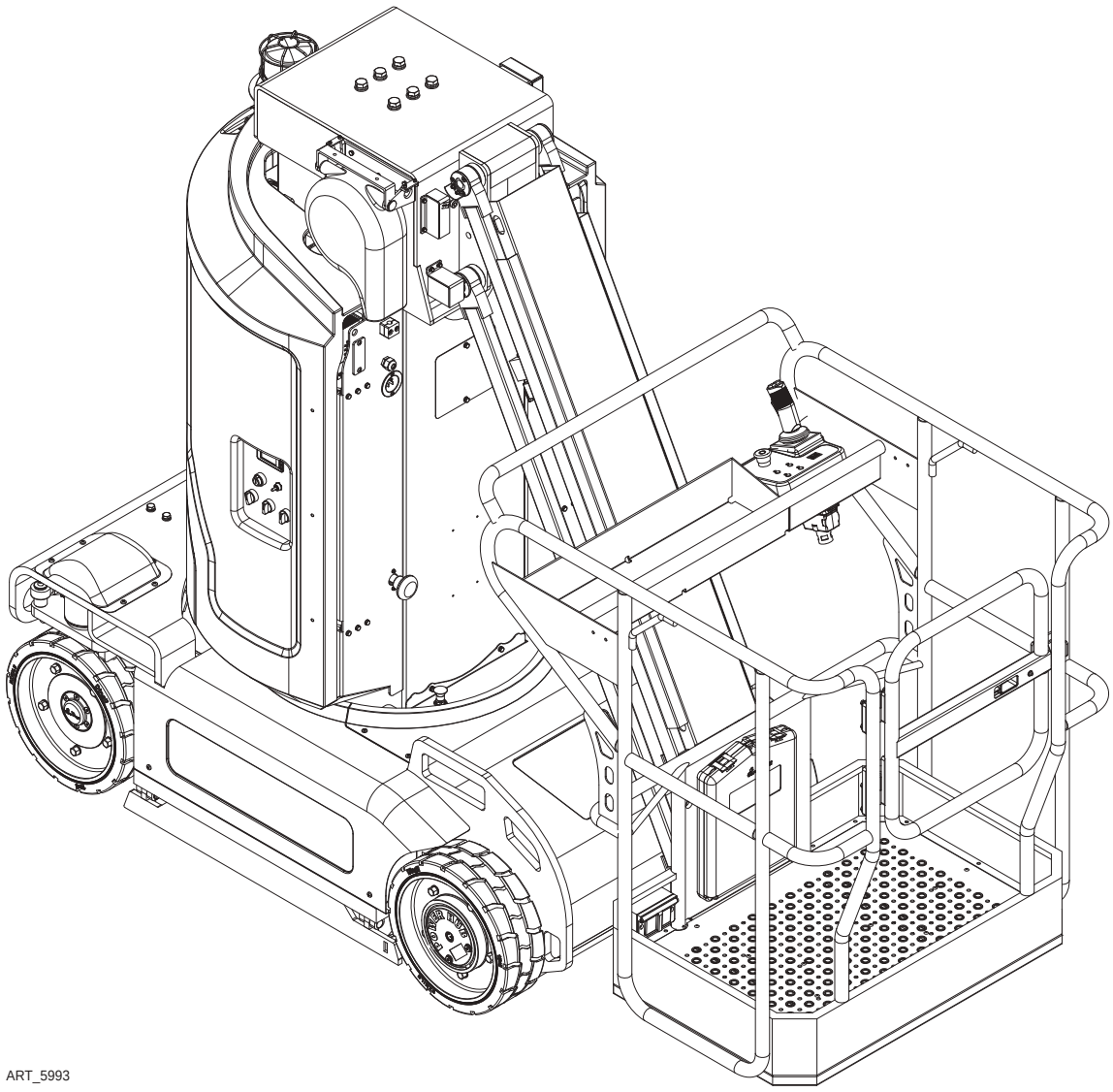
Service & Parts Manual

MME30-RJ



ART_5993

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

Serial Number Range 18300000 - Up

Part # 96265
October 2024

Revision History

Date	Reason for Update
March 2023	New Release
September 2024	Removed Doyle components, added serial numbers to Danfoss and Yuethai Added Ground Control Box Assembly, New Style

MEC Aerial Work Platforms

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Table of Contents

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

Height, Working Maximum[1]	Indoor	36ft	11m
	Outdoor	34ft	10.3m
Height, Platform Maximum	Indoor	30ft	9.1m
	Outdoor	27ft	8.2m
Maximum Personnel	Indoor	1 Person	
	Outdoor	1 Person	
Manual Force	Indoor	45lbs	200N
	Outdoor	45lbs	200N
Maximum Wind Speed	Indoor	0mph	0m/s
	Outdoor	28mph	12.5m/s
Height, Stowed Maximum		6.52ft	1.99m
Height, Guard Rails		3.6ft	1.1m
Width		3.28ft	1.0m
Length, Stowed		8.59ft	2.62m
Platform Dimensions (Length × Width)		39×31in	1.0×0.79m
Maximum Load Capacity		500lbs	227kg
Wheelbase		4ft	1.22m
Turntable Rotation		345°	
Jib Working Range		130°	
Turning Radius		5.90ft	1.8m
Ground Clearance		2.36in	6cm
Weight		6,500lbs	2,950kg
Power Source		24V 200A/H AGM	
System Voltage		24V	
Controls		Proportional	
Maximum Hydraulic Pressure		2,900psi	200bar
Tire Size		15×5in	381×127mm
Maximum Slope Rating			
Slope Rating, Stowed Position[2]		25%	
Side Slope Rating, Stowed Position[2]		10%	
Tilt Sensor Setting		2.0 Side, 2.5 Inline	
Drive Speeds			
Stowed, Maximum		2.8mph	4.5km/h
Platform Raised, Maximum		0.31mph	0.5km/h
Floor Loading Information			
Tire Load, Maximum[3]		2,100lbs	950kg
Tire Contact Pressure[3]		230psi	16.2kg/cm^2
Occupied Floor Pressure[3]		222psf	2,250kg/m^2

Meets requirements of ANSI A92.20-2020 and CSA B354.6-2019.
1 Working Height adds 6 feet (2 meters) to platform height.
2 Slope rating is subject to ground conditions and adequate traction.
3 Floor loading information is approximate and doesn't incorporate different option configurations.

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

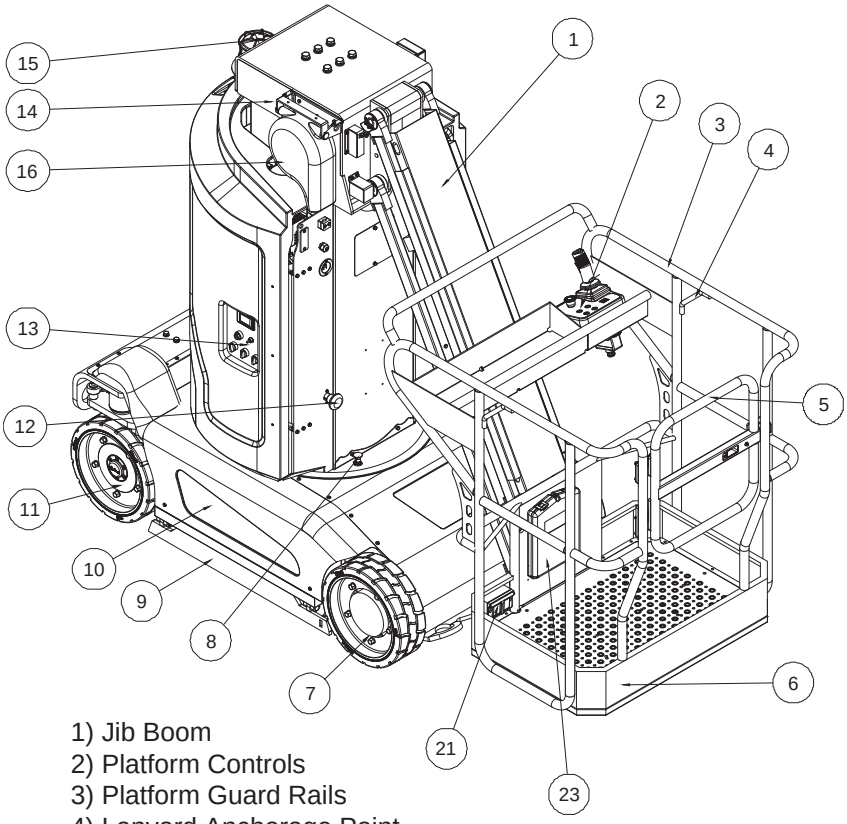
WARNING

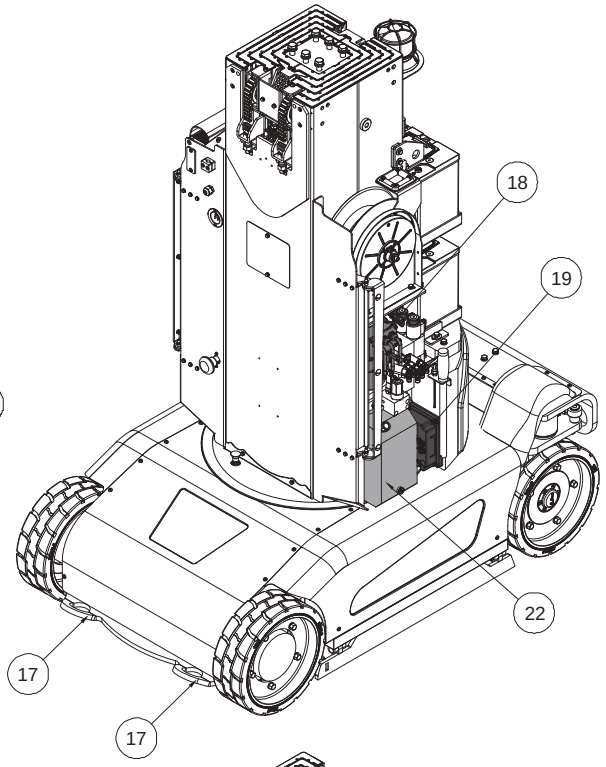
FAILURE TO PERFORM PREVENTIVE MAINTENANCE AT RECOMMENDED INTERVALS MAY RESULT IN THE UNIT BEING OPERATED WITH A DEFECT THAT COULD RESULT IN INJURY OR DEATH OF THE OPERATOR.

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

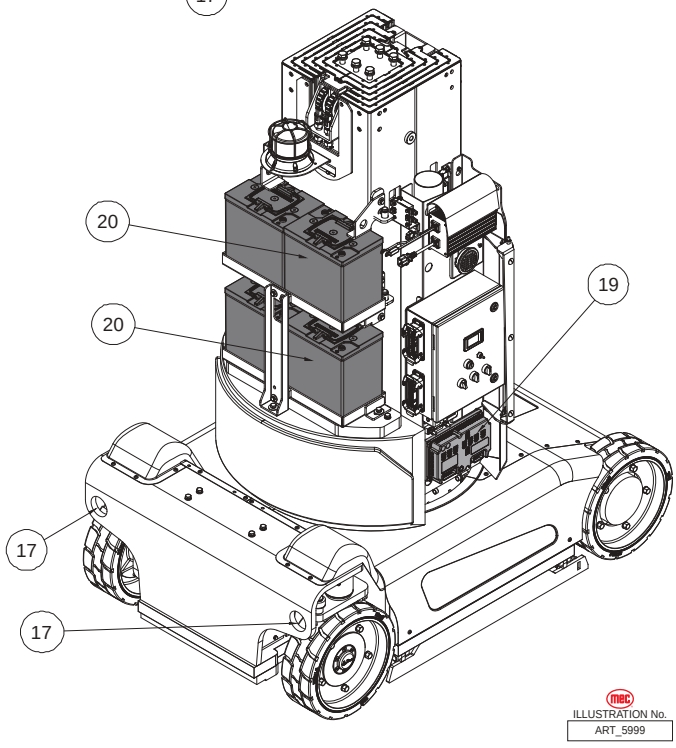
INSPECTION AND MAINTENANCE SHOULD BE PERFORMED BY QUALIFIED PERSONNEL FAMILIAR WITH THE EQUIPMENT.

Component Locations





1) Jib Boom
2) Platform Controls
3) Platform Guard Rails
4) Lanyard Anchorage Point
5) Platform Entry Gate
6) Platform
7) Drive Tire
8) Mast Emergency Lowering Knob
9) Pothole Device
10) Chassis
11) Steer Tire
12) Red Emergency Stop Button
13) Ground Controls
14) Mast
15) Flashing Beacon
16) Cable Reel
17) Tie-Down/Lift Points
18) Hydraulic Power Unit
19) Motor Controllers
20) Batteries
21) Platform Electrical Outlet
22) Hydraulic Oil Tank
23) Manual Box



Emergency System

WARNING

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.

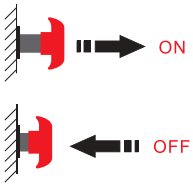
Emergency Stop

ART_3353

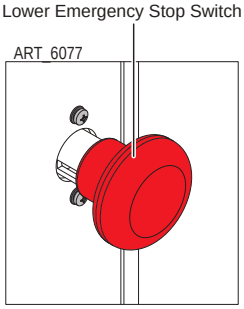
The machine is equipped with an EMERGENCY STOP switch at the base controls and the platform control box.

- 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.

Main Power/Lower Emergency Stop Switch



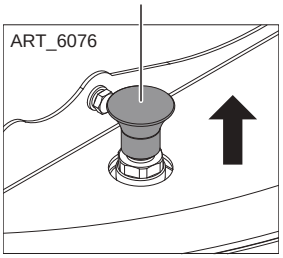
Main Power &
Lower Emergency Stop Switch



Check Main Power/Lower Emergency Stop Switch. Must be in ON position.

Emergency Lowering

Mast Emergency Lowering Knob
(Pull up to lower mast!)



Located near the base of the front of the turntable is the mast emergency lowering knob. Pull the knob to lower the mast.

Transport and lifting instructions

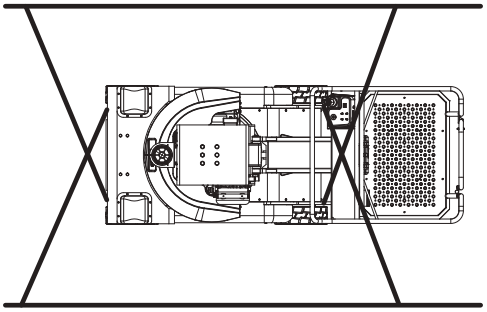
Observe and Obey:

- 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 then press the 3rd button to enter the Menu screen.
4. Press either the “Up” button or the “Down” button to select option #4 which is “ManuReleBrake.”
5. Press the “Enter” button. The horn will sound signaling that all brakes have been released.
6. To reset the brakes, push the emergency stop switch.

If the machine must be towed, do not exceed 2.8mph (4.5km/h).



Securing to Truck or Trailer for Transit

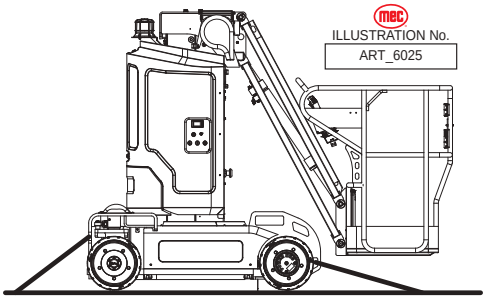
Turn the key switch to the off position and remove the key before transporting. Inspect the entire machine for loose or unsecured items.

Securing the Chassis

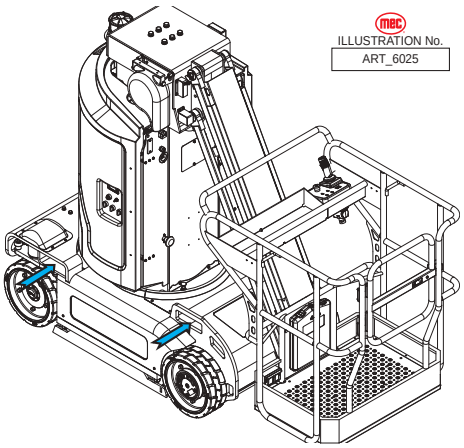
Use chains of ample load capacity.

Use a minimum of 4 chains.

Adjust the rigging to prevent damage to the chains.



Lifting the Machine with a Forklift

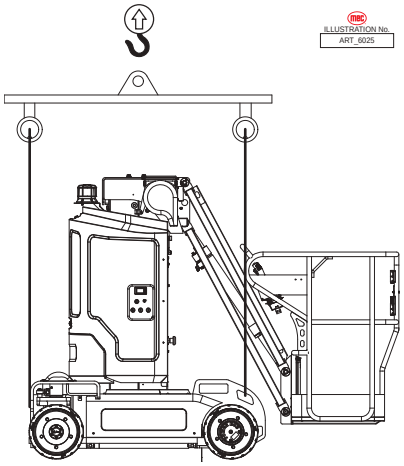


Be sure the controls and component trays are secure. Remove all loose items on the machine. Fully lower the platform. The platform must remain lowered during all loading and transport procedures.

Position the forklift forks in position as the figure above. Drive forward to the full extent of the forks. Raise the machine 6 inches (15 centimeters) 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 front and back of the chassis.

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

Maintenance Inspection Report

MME30-RJ

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
DECALS:			
Legible - undamaged/readable	Q		
Capacity decal correct for model	Q		
PLATFORM & RAILS:			
Not damaged, all in place	Q		
Entry gate secure, closes properly	Q		
Manual box in good condition	Q		
Operators Manual in manual box	Q		
JIB ASSY:			
Welds, no signs of metal fatigue, damage	Q		
Pivot Pins secure	Q		
Cylinder, no leaks, valve wires ok	Q		
ELEVATING ASSEMBLY:			
Mast Slide Blocks, lubed	Q		
Mast structures: Straight, no cracks	Q		
Welds: secure, no cracks	Q		
Cables tensioned correctly	Q		
Chains secure, not stretched	A		
Lift cylinder no visible damage	A		
ELECTRICAL:			
GFCI operates correctly	Q		
Wire harnesses good condition, secure	A		
Communication cable no damage, secure	A		
Retractile Cord Reel operational	Q		
Emergency stop, stops power/operation	Q		
Key Switch, proper operation	Q		
Battery Switch, stops all power	Q		

	Q/A	Y/N/O	R
WHEELS:			
Tire, damage, excessive wear	Q		
Lug nuts (Wheel mounting) torqued correctly	Q		
King Pins lubed	A		
COMPONENT AREA (Under Cover):			
Motor Controller - cables tight, no corrosion	Q		
Wires not damaged - Plugs tight	Q		
Limit Switches - adjustment, operation, lubed	Q		
Cleanliness - All debris, excessive dirt removed	Q		
Battery cables clean	Q		
Battery switch cuts battery feed	Q		
Cover Doors secure, locks operate correctly	Q		
Fasteners present and tight	Q		
BASE:			
Fasteners present and tight	Q		
Cover panels secure	Q		
Welds,secure, no signs of cracks	A		
OPERATIONAL INSPECTION:			
All functions, operate smooth and quiet	Q		
All functions, speeds correct.	Q		
Upper control box, operates correctly	Q		
Emergency Down, operates correctly	Q		
Limit switches slows drive when elevated	Q		
Indoor/outdoor limit switch set, test operation	Q		
Pothole switch test	Q		
Battery Charger operation	Q		
Amber Beacon, Operation	Q		

Daily Maintenance

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

1) Inspect the Manuals and Decals

Maintaining the operator's manual in good condition is essential to safe machine operation. The operator's manual is included with each machine and should be stored in the manual box 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 manual box in 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 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 manual box after use.

2) Perform a 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 Hydraulic Oil Level

- New parts will 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 the oil level that might indicate the presence of hydraulic system problems.

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

1. Open the turntable covers of the machine.
2. Remove the hydraulic oil dip-stick (fill cap) and wipe it clean then reinsert it.
3. Take the hydraulic oil dip-stick out again and check the oil level.
4. If the hydraulic oil level is too low then add new hydraulic oil to the prescribed level.

Original Hydraulic oil specifications: L-HV46

Make sure to use the appropriate hydraulic oil according to the ambient temperature.

4) 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 immediately.

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

5) 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 maintenance inspection report for continued scheduled maintenance.

To perform the following maintenance procedures, refer to page 17.

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

Quarterly Maintenance

The following maintenance should be done every three months or every 250 hours, whichever comes first.

1) Inspect the Batteries (Lead-acid 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.

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. Open the turntable covers of the machine.
3. Confirm that the battery cable connections are tight and free of corrosion.

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

4. Locate the bolts between the battery pack and the counterweight. Confirm that the head of each bolt is firmly in contact with the battery pack so that the battery pack does not move.
5. Remove the battery vent caps and check the battery acid level. If needed, replenish with distilled water to 0.12 inches (3 millimeters) below the bottom of the battery fill tube. **Do not overfill!**
6. Install the vent caps and neutralize any electrolyte that may have spilled.

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.

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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1. Open and remove the turntable covers from the machine.
2. Turn the key switch to the ground controls. 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. Raise the jib boom until the platform is approximately 8.2 feet (2.5 meters) from the ground.
4. Turn the key switch to the “OFF” position and push in the red Emergency Stop button to the “OFF” position at the ground control.
5. Tag and disconnect the cables from the ground terminal of the battery.
6. Remove the fasteners securing the rear chassis cover to the chassis at the non-steer end of the machine. Remove the chassis cover. Lay the cover and fasteners to the side.
7. Inspect the drive motors connections for burnt, chafed, pinched cables, and loose connections.
8. Install the rear chassis cover at the non-steer end of the machine and securely install the fasteners.
9. Install the cables onto the ground terminal of the battery, and securely tighten them.
10. Inspect the battery pack for burnt, chafed, and pinched cables.
11. Inspect the following areas for burnt, chafed, corroded, and loose wires:
    - Ground Control Panel
    - Battery Charger
    - Hydraulic Power Unit
12. Turn the key switch to the ground controls. Pull out the ground red Emergency Stop button to the “ON” position. Turn the platform red Emergency Stop button clockwise to the “ON” position.
13. Lower the jib boom until the platform is approximately 1.6 feet (0.5 meters) from the ground.
14. Turn the key switch to the “OFF” position and push in the red Emergency Stop button to the “OFF” position at both the ground and platform controls.
15. Inspect the following areas for burnt, chafed, corroded, and loose wires:
    - Mast Cable
    - Platform Controls
    - Power To Platform Wiring
16. Inspect for a liberal coating of dielectric grease in all wiring connections between the ground control panel and the platform controls, and level sensor wiring.
17. Install both the turntable covers on 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.

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	65 ft-lbs (88 Nm)
Bolt Torque, Lubricated	49 ft-lbs (66 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 the ground controls. 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 the platform controls. 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 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 the platform controls.

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.

WARNING

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.

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. 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.
3. The bearing between the chain wheel and the shaft is lubricated with a calcium sulfonate base grease while raising.
4. Lubricate the place between the chain wheel with a grease gun.
5. Lubricate the lead rail with calcium sulfonate base grease while raising.

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 the platform controls.
3. Check the machine functions from the ground controls.
   - **Result:** No machine functions should operate.
4. Turn the key switch to the ground controls.
5. Check the machine functions from the platform controls.
   - **Result:** No machine functions should operate.
6. Turn the key switch to the “OFF” position.
7. Test the machine functions from the ground and platform controls.
   - **Result:** No machine functions should operate.

7) Test the Horn

The horn is activated from 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 the platform controls. 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 on 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 the platform controls. 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. Enter the platform and 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 in 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 (12.2 meters) apart.
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. Enter the platform and press the drive function select button.
5. Choose a point on the machine (i.e., contact patch of a tire) as a visual reference for use when crossing the start and finish lines.
6. Bring the machine to top drive speed before reaching the start line. Begin timing when your reference point on the machine crosses the start line.
7. Continue at full speed and note the time when your reference point on the machine passes over the finish line. The time is less than 10 seconds.

10) Test the Drive Speed in Raised Position

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

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

1. Create start and finish lines by marking two lines on the ground 40 feet (12.2 meters) apart.
2. Turn the key switch to the platform controls. 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. Press the Mast Telescoping/Turntable Rotation select button.
4. Enter the platform then press and hold the function enable switch on the control handle.
5. Raise the mast approximately 8 inches (20 centimeters).
6. Press the drive function select button.

7. Choose a point on the machine (i.e., contact patch of a tire) as a visual reference for use when crossing the start and finish lines.
8. Bring the machine to top drive speed before reaching the start line. Begin timing when your reference point on the machine crosses the start line.
9. Continue at full speed and note the time when your reference point on the machine passes over the finish line. The time is less than 87 seconds.
10. Lower the mast to the stowed position.
11. Press the Jib Lifting/Lowering select button.
12. Press and hold the function enable switch on the control handle.
13. Raise the jib boom until the platform floor is approximately 3.3 feet (1.0 meters) from the ground.
14. Press the drive function select button.
15. 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.
16. 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.
17. 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 87 seconds.
18. Lower the jib boom to the stowed position.

11) Test the Flashing Beacon

Flashing beacon is used to alert operators and ground personnel of machine proximity and motion.

1. Turn the key switch to the ground controls. 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. Activate any machine function from the ground controls.
   - **Result:** The beacon should flash.
3. Turn the key switch to the platform controls.
4. Activate any machine function from the platform control.
   - **Result:** The beacon should flash.

Note: Beacon will flash only when you activate any machine function either from ground controls or platform controls.

12) Test the Motion Alarm

Alarm is used to alert operators and ground personnel of machine proximity and motion.

1. Turn the key switch to the ground controls. 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. Raise the platform approximately 14 inches (35 centimeters)
   - **Result:** When raising the platform, the motion alarm will sound.
3. Lower the platform to the stowed position.
   - **Result:** When lowering the platform, the motion alarm will sound.
4. Turn the key switch to the platform controls.
5. Press the Mast Telescoping/Turntable Rotation select button.
6. Press and hold the function enable switch on the control handle. Move the joystick off center, hold for a moment and then release it. Move the control handle off center in the opposite direction, hold for a moment and then release it.
   - **Result:** The motion alarm will sound when the control handle is moved off center in either

direction.

7. Press the drive function select button.
8. Press and hold the function enable switch on the control handle. Move the joystick off center, hold for a moment and then release it. Move the control handle off center in the opposite direction, hold for a moment and then release it.
   - **Result:** The motion alarm will sound when the control handle is moved off center in either direction.
9. Press and hold the function enable switch on the control handle. Press and hold the thumb rocker switch for a moment to the left position and then release it. Press and hold the thumb rocker switch for a moment to the right position and then release it.
   - **Result:** The motion alarm will sound when the rocker switch is moved off center in either direction.

13) Perform Hydraulic Oil Analysis

- 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.

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 and refer to page 28.

14) Inspect the Breather Cap

- Tools will 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. Open the turntable cover at the hydraulic power unit side of the machine.
2. Remove the breather cap from the hydraulic tank.
3. Check for proper venting.
   - **Result:** Air passes through the breather cap. Proceed to step 5.
   - **Result:** If air does not pass through the cap, clean or replace the cap. Proceed to step 4.

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

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

15) 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.

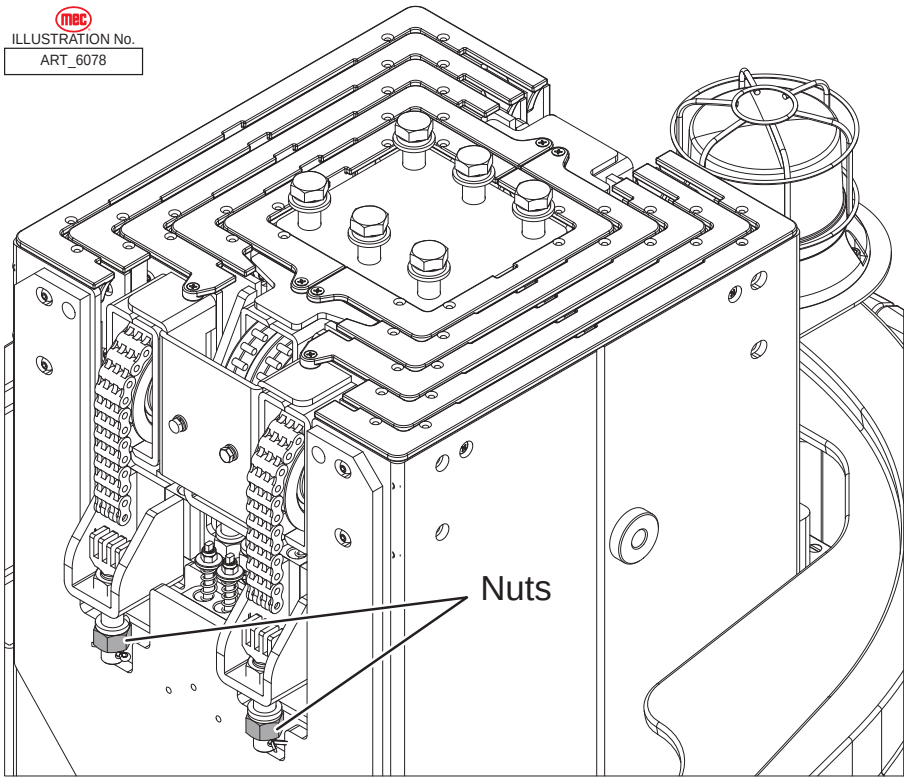
Tension chains are essential to good machine performance and safe operation.

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 (Mobile Elevating Work Platform) and contact the manufacturer 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 select the mast that needs increasing in height. 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 effectiveness, the other will play an important safety role. Therefore, try to make both chains as loose or tight as consistently with 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.



16) 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

Always wear necessary safety clothing and use the appropriate tools.

Preliminary Operation

The disassembly operation should be carried out only once the chains have been completely disconnected and the personnel performing the operation have the necessary training.

All the precautions must be taken care of before begin operation.

After completion of work, all the covers and safety devices must be placed back completely and functional normally.

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 work environment and the conditions of use. The frequency of application must ensure that a sufficient quantity of fluid oil is present in the chain links.

If the chains have been exposed to corrosive fluids, clean the chains immediately and apply lubricant.

Note: Telescoping operations may be necessary to access elements.

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

Check the condition of the chains

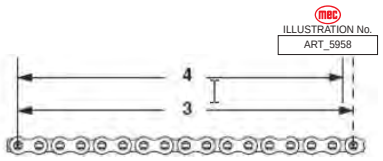
To carry out the following operations, perform a complete telescoping.

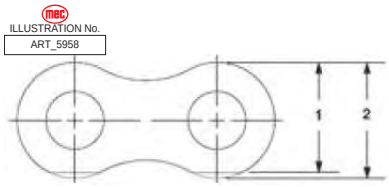
- Check that the lifting chains and safety chains are clean.
- Check that there are no foreign particles on the chains and guide.
- Check that there are no signs of corrosion on chain elements.

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

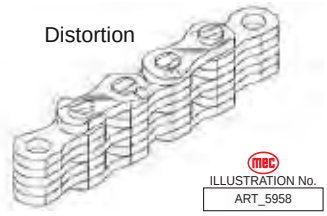
Check for elongation wear:
- Elongation of up to 2%, over 12 segments, of the original chain length is permitted.
- Measure the value of 3 using an appropriate method. Compare with the value of 4 indicated in the table below.

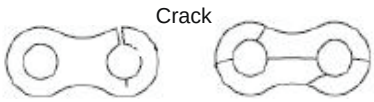
Chain Type	Link Width (2)	Length of 12 Links (4)
Chain, (4-6) Mast Chain, (3-5) Mast Chain, (2-4) Mast	0.47 inches (12.08 millimeters)	6.0 inches (152.40 millimeters)
Chain, (1-3) Mast	0.59 inches (15.1 millimeters)	8.78 inches (222.96 millimeters)

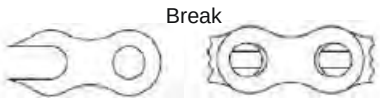


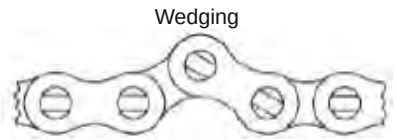


- Check for external wear on rollers and links.
- External wear must not measure more than 2% from the section of the original link (2), see table above.
- Measure the value of (1) using an appropriate method.
- Check that no line or element is damaged or missing.
- Check that links are not distorted,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

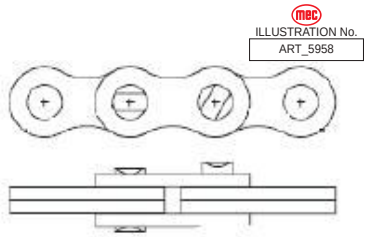








- Check the connection points of links (the lines must be parallel).



Replacing the chains

The chains must imperatively be changed every 10 years.

Semi-annual Maintenance

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

1) Test the Platform Overload System

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

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

---

1. Turn the key switch to the 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 sound, 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 the ground controls.
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 the platform controls.
11. Test all machine functions from the platform controls.
    - **Result:** All platform control functions should operate.

2) Replace the Hydraulic Tank Breather Cap

- New parts will 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. Open the turntable cover at the hydraulic power unit side of the machine.
2. Remove and discard the hydraulic tank breather cap.
3. Install a new cap onto the tank.
4. Close the cover.

Yearly Maintenance

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

1) Test or Replace the Hydraulic Oil

- 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.

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. Open the turntable cover at the hydraulic power unit side of the machine.
2. 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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3. Remove the fasteners securing the chassis side cover next to the tank to the chassis. Remove the side cover. Lay the side cover and fasteners to the side.
4. Place a suitable container under the hydraulic tank.
5. Locate and remove the hydraulic tank filler cap. Set the filler cap to the side of the tank from the pump body.
6. Remove the drain plug and drain all of the oil into the container that is under the hydraulic tank.

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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7. Clean up any oil that may have spilled. Properly discard the used oil.
8. Clean the inside of the hydraulic tank using a mild solvent. Allow the tank to dry completely.
9. Install the drain plug onto the hydraulic tank and tighten the torque to the specification listed below.

Torque Specifications	
Hydraulic Tank Drain Plug	3.7ft-lbs (5 Nm)

10. Fill the tank with hydraulic oil until the hydraulic tank is full. Do not overfill.
11. 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.

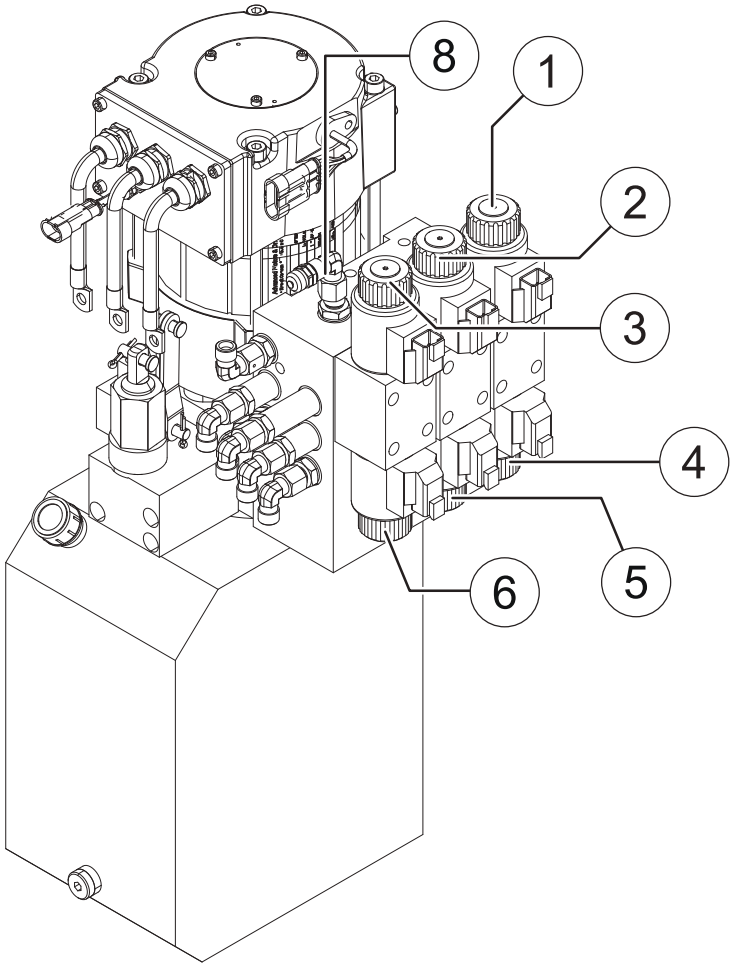
Fault Code List

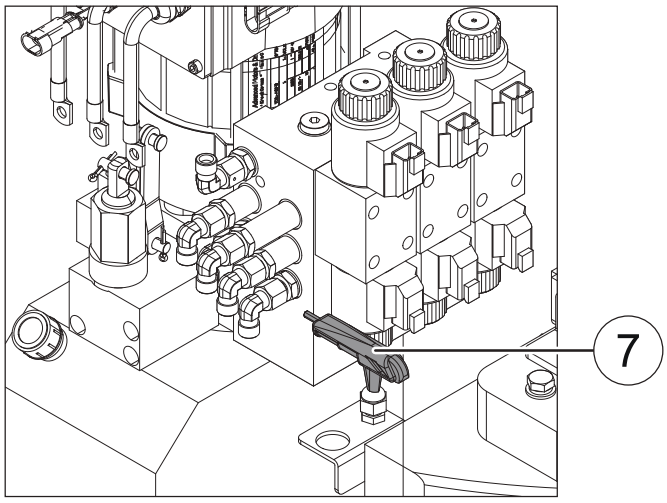
Fault Code	Description	Explanation
A1	PCU 186 Timeout	Platform Control Unit (PCU) not communicating.
A2	PCU 187 Timeout	Platform Control Unit (PCU) not communicating.
A3	Reserve	Not used.
A4	Level Ang Timeout	Level Sensor failed or open circuit.
A5	PCU_Y_ Fault	Check Platform Control Unit (PCU) connections. Replace Platform Control Unit (PCU) board.
A6	System Alarm	General fault - see other fault codes.
A7	Jib Angl Fault	Jib Position Sensor open or shorted.
A8	Jib Pres Fault	Jib Pressure Sensor open or shorted.
A9	Mast Rot Ev Open Load	Mast Rotate Coil open circuit or wire off.
A10	Mast Rot Ev Sht Load	Mast Rotate Coil shorted - drawing excessive amperage.
A11	Mast UD_Ev Opn Load	Mast Lift Coil open circuit or wire off.
A12	Mast UD_Ev Sht Load	Mast Lift Coil shorted - drawing excessive amperage.
A13	Steer Ev Open Load	Steer Coil open circuit or wire off.
A14	Steer Ev Short Load	Steer Coil shorted - drawing excessive amperage.
A15	Pump Can TimeOut	Pump Motor Controller not communicating.
A16	Travel Can TimeOut	Traction Motor Controller not communicating.
A17	PCU Can TimeOut	Platform Control Unit (PCU) not communicating.
A18	mA_Pres_A_Fault	Pressure Sensor A output fault. Check pressure sensor and wiring.
A19	mA_Pres_B_Fault	Pressure Sensor B output fault. Check pressure sensor and wiring.
A20	mA_Pres Rdn Fault	Pressure Sensor A & B output not equal fault. Check pressure sensor and wiring.
A21	Jib Am Up Ev Opn Load	Jib Coil open circuit or wire off.
A22	Jib Am Up Ev Sht Load	Jib Coil shorted - drawing excessive amperage.
A31	Left Motor Mcu Over Current	Left Traction Motor Control Unit excessive output amperage.
A32	Left Motor Curr Sens Fault	Left Traction Motor amperage sensor fault.
A33	Left Motor Encode Fault	Left Traction Motor Encoder fault - possible wire off or faulty encoder.
A34	Left Motor Open Circuit	Left Traction Motor U, V, W wire open circuit. Check wire connections at motor.
A35	Left Motor Short Circuit	Left Traction Motor drawing excessive amperage. Possible motor lock up or internal short.
A36	A36: Left Motor Mcu Temp Too High	Left Traction Motor Control Unit excessive temperature.
A37	Left Motor Temp Over	Left Traction Motor Temperature Sensor indicating excessive temperature. If motor is cool, check temp sensor.
A38	Left Motor Cut Off Temp Over	Left Traction Motor Temperature Sensor indicating excessive temperature. If motor is cool, check temp sensor.
A39	Left Motor Temp Sens Fault	Left Traction Motor Temperature Sensor not communicating with MCU.
A40	Left Motor Block	Left Traction Motor unable to turn.
A41	Left Motor Over Spd Fault	Left Traction Motor Temperature excessive RPMs.
A42	Left Motor Brake Coil Open Circuit	Left Traction Motor Brake failed or broken wire.
A43	Left Motor Brake Shor Circuit	Left Traction Motor Brake failed or shorted wire.
A44	Right Motor Mcu Over Current	Right Traction Motor Control Unit excessive output amperage.
A45	Right Motor Curr Sens Fault	Right Traction Motor amperage sensor fault.
A46	Right Motor Encode Fault	Right Traction Motor Encoder fault - possible wire off or faulty encoder.
A47	Right Motor Open Circuit	Right Traction Motor U, V, W wire open circuit. Check wire connections at motor.
A48	Right Motor Short Circuit	Right Traction Motor drawing excessive amperage. Possible motor lock up or internal short.
A49	Right Motor Mcu Temp Too High	Right Traction Motor Control Unit excessive temperature.

A50	Right Motor Temp Over	Right Traction Motor Temperature Sensor indicating excessive temperature. If motor is cool, check temp sensor.
A51	Right Motor Cut Off Temp Over	Right Traction Motor Temperature Sensor indicating excessive temperature. If motor is cool, check temp sensor.
A52	Right Motor Temp Sens Fault	Right Traction Motor Temperature Sensor not communicating with MCU.
A53	Right Motor Block	Right Traction Motor unable to turn.
A54	Right Motor Over Spd Fault	Right Traction Motor Temperature excessive RPMs.
A55	Right Motor Brake Coil Open Circuit	Right Traction Motor Brake failed or broken wire.
A56	Right Motor Brake Coil Shor Circuit	Right Traction Motor Brake failed or shorted wire.
A57	Lf Rt Motor Mcu Volt Too Low	Traction Motor Control Units low battery voltage.
A58	Lf Rt Motor Mcu Volt High	Traction Motor Control Units high battery voltage.
A59	Lf Rt Motor Mcu Volt Too High	Traction Motor Control Unit high battery voltage. Check charger output. Check battery selection and connection.
A60	Lf Rt Motor Mcu Main Cont Not Close	Main Contactor not closed - check main contactor.
A61	Lf Rt Motor Pre Chg Faile	Capacitor Charge too low - check Contactor or other faults.
A62	Lf Rt Motor Iner 15V Fault	Check connections. Replace motor controller.
A63	Lf Rt Motor Directi Fault	Traction motors turning opposite directions. Check encoders and harnesses.
A64	Lf Rt Motor Params Fault	Motor Control Unit configuration not correct. Possible MCU problem.
A65	Lf Rt Motor Can Missing	Check traction motor and MCU harnesses.
A66	Pump Motor Mcu Over Current	Pump Motor Control Unit excessive output amperage.
A67	Pump Motor Current Sens Fault	Pump Motor amperage sensor fault.
A68	Pump Motor Encode Fault	Pump Motor Encoder fault - possible wire off or faulty encoder.
A69	Pump Motor Open Circuit	Pump Motor U, V, W wire open circuit. Check wire connections at motor.
A70	Pump Motor Short Circuit	Pump Motor drawing excessive amperage. Possible motor lock up or internal short.
A71	Pump Motor Mcu Temp Too High	Pump Motor Control Unit excessive temperature.
A72	Pump Motor Tempera Over	Pump Motor Temperature Sensor indicating excessive temperature. If motor is cool, check temp sensor.
A73	Pump Motor Cut Off Temp Over	Pump Motor Temperature Sensor indicating excessive temperature. If motor is cool, check temp sensor.
A74	Pump Motor Temp Sens Fault	Pump Motor Temperature Sensor not communicating with MCU.
A75	Pump Motor Block	Pump Motor unable to turn.
A76	Pump Motor Over Spd Fault	Pump Motor Temperature excessive RPMs.
A77	Pump Motor Mcu Volt Too Low	Pump Motor Brake failed or broken wire.
A78	Pump Motor Mcu Volt High	Pump Motor Brake failed or shorted wire.
A79	Pump Motor Mcu Volt Too High	Pump Motor Brake failed or shorted wire.
A80	Pump Motor Main Conc Adjoin	KM1 Contactor stuck closed. Check connections. Replace contactor.
A81	Pump Motor Main Conc Not Close	KM1 Contactor not closing. Check connections. Replace contactor.
A82	Pump Motor Main Coil Open Circuit	KM1 Contactor coil circuit open. Check connections at contactor and harness. Replace contactor.
A83	Pump Motor Main Coil Short Circuit	KM1 Contactor coil circuit shorted. Check contactor coil resistance (~40 ohms) and harness. Replace contactor.
A84	Pump Motor Pre Chg Faile	Capacitor Charge too low - check Contactor KM1 or other faults.
A85	Pump Motor Iner 15V Fault	Check connections. Replace motor controller.
A86	Pump Motor Direction Fault	Pump Motor turning opposite direction as signaled by encoder. Check encoder if hyd functions operate.
A87	Pump Motor Params Fault	Pump Motor Control Unit configuration not correct. Possible MCU problem.
A88	Pump Motor Can Missing	Check harness to Pump Motor Controller.
A89	Pump Motor BDI_Too Low	BDI (Battery Discharge Indicator) indicates low battery voltage - charge batteries.
A200	Cage Joy En Key Init Fault	Joystick Enable trigger closed at power up. Check joystick.
A201	Cage Joy Lf Btn Init Fault	Joystick left steer switch closed at power up. Check joystick.

A202	Cage Joy Rt Btn Init Fail	Joystick right steer switch closed at power up. Check joystick.
A203	Cage Joy_X_Init Fault	Joystick not centered at power up. Check joystick.
A204	Cage Joy_Y_Init Fault	Joystick not centered at power up. Check joystick.
A205	Cage Pedal Init Fault	Not used - check Options settings.
A206	Tr Mast Rot En Key Init Fault	Lower Panel Mast rotation switch closed at power up.
A207	Tr Mast Up Dw En Key Init Fault	Lower Panel Mast up/down switch closed at power up.
A208	Tr Jib Up Dw En Key Init Fault	Lower Panel Jib up/down switch closed at power up.
A209	Truck Up Key Init Fault	Lower Panel Mast up switch closed at power up.
A210	Truck Dw Key Init Fault	Lower Panel Mast Down switch closed at power up.
A211	Ca Trav Stee Key Init Fault	Cage Drive Select Button closed at power up.
A212	Ca Mast Up Dw Rot Key Init Fault	Cage Lift Select Button closed at power up.
A213	Ca Jib Up Dw Key Init Fault	Cage Jib Select Button closed at power up.
A214	Cage Horn Key Init Fault	Cage Horn Select Button closed at power up.
W4	Battery BDI_Low	Battery discharged - charge batteries.
W5	Disp 112 TimeOut	Display at Lower Panel not communicating with ECU. Check connections.
W6	Steer Angl Sens Fault	Steering Angle Sensor no output to ECU. Check sensor and harness.
W7	Ant Squeeze Warning	If PPSS Equipped, check for overhead obstructions.
W8	GPS Limit Mast Up	Mast limited GPS interfaces with controls.
W9	Mast Up Limit OutDoor	No Fault. Max elevated to Outdoor limit.
W20	Enable Lift Travel Is Off	Not used, check option settings.
W21	Pothole Switch On	Pothole bars are blocked when elevated. Check limit switch if not elevated.
W22	Mast Up Max Limit	No Fault. Mast fully elevated.
W23	Mast Dw Min Limit	No Fault. Mast fully lowered.
W24	Jib Max Limit	Jib reached maximum elevation. Not a fault.
W25	Anti Collision Warn	Not used.
W26	Pedal Not Active	Not used.
W27	Battery Voltage Low	Low battery voltage - charge batteries.
W28	Manual Brake Release	Manual Brake Release activated.
W29	Jib Up Max Limit	No Fault. Jib fully elevated.
W30	Jib Dw Limit	No Fault. Jib fully lowered.
W101	OverLoad 500 LBS	Overloaded - remove weight from platform.
W102	Truck Tilt Warn	Machine out of level - lower mast and move to level surface.

Function Manifold Valves

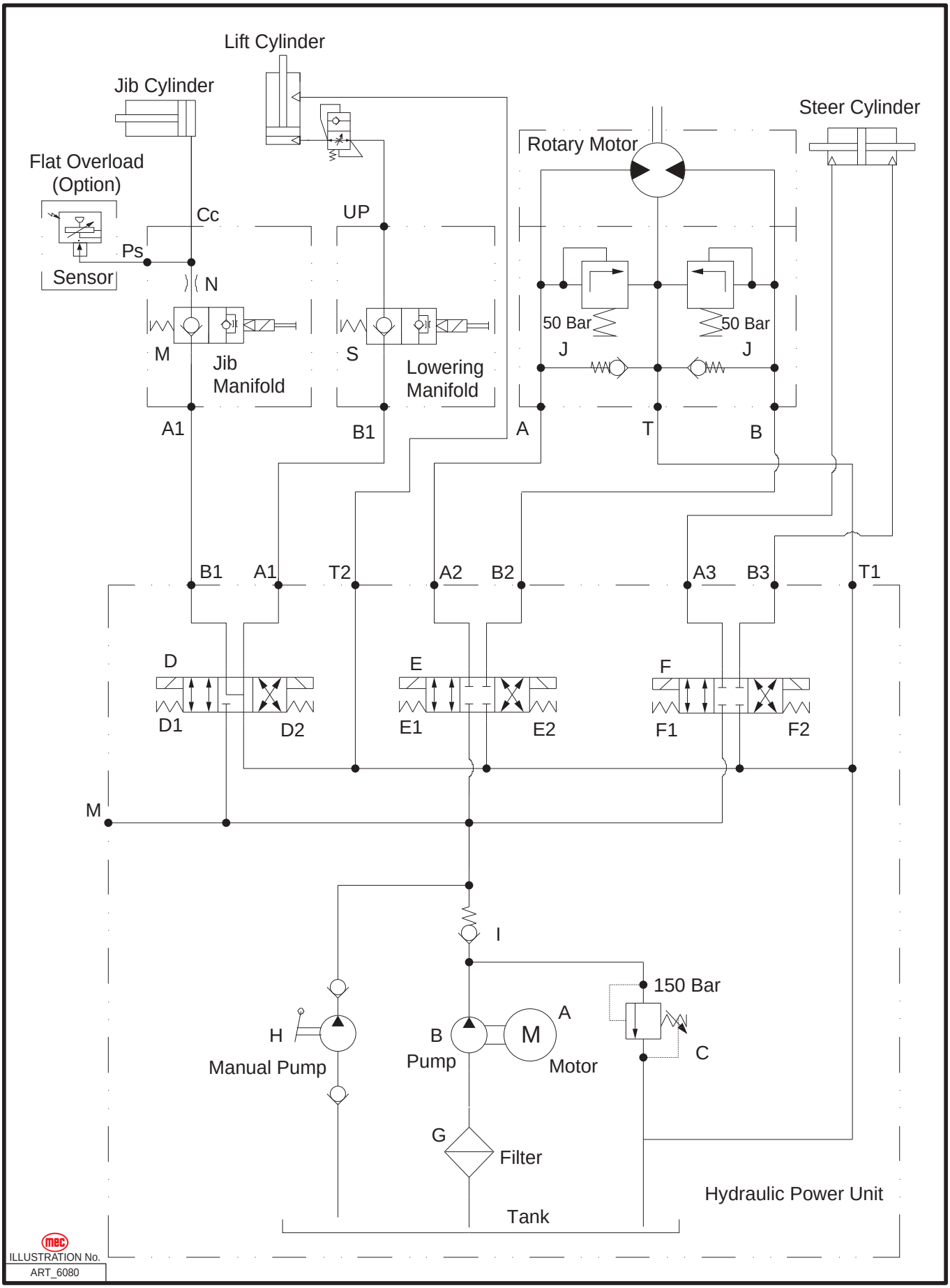




1) Steer Right Valve
2) Turntable Rotate Right Valve
3) Mast Function Valve
4) Steer Left Valve
5) Turntable Rotate Left Valve
6) Jib Boom Function Valve
7) Wrench
8) Test Port (M Port)

ILLUSTRATION No.
ART_6075

Hydraulic Schematic



Electrical Schematic

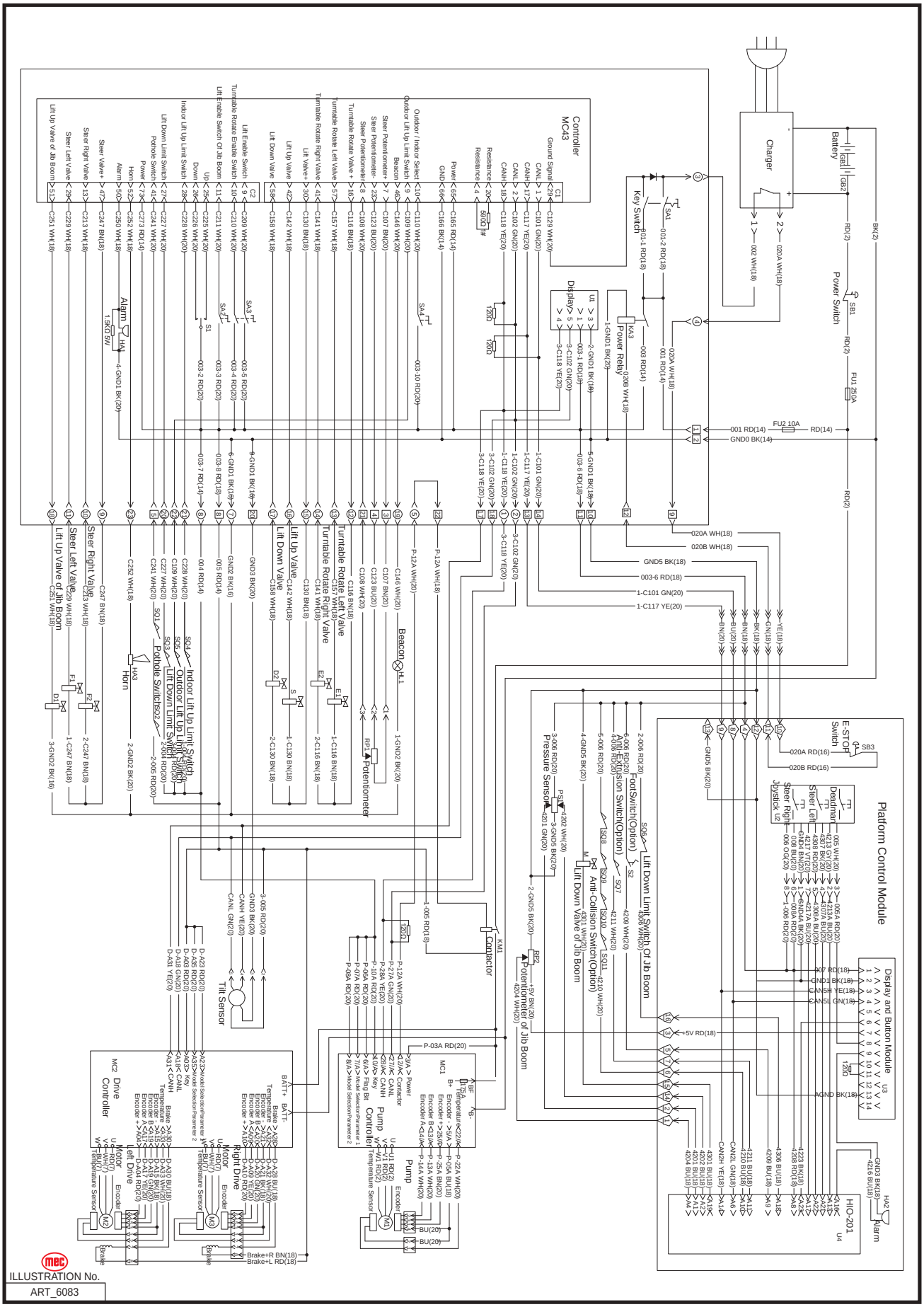


ILLUSTRATION No.
ART_6083

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.

Chassis Covers Installation, Old Style

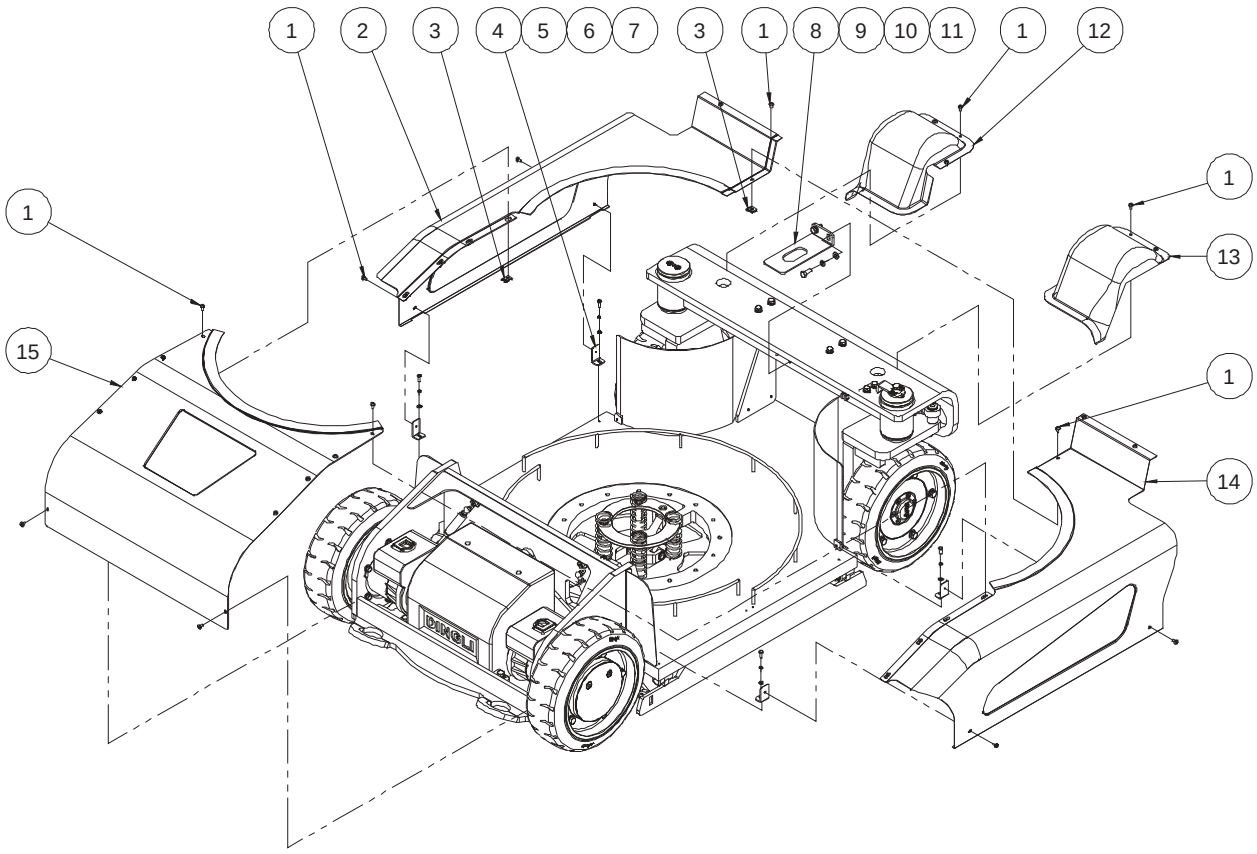


ILLUSTRATION No. ART_6034 MME30-RJ Chassis Covers Installation

Item	Part Number	Description	Qty.
1	53507	Screw PHMS M06-1.00 × 10	25
2	46775	Left Chassis Cover	1
3	53481	No-Slip Clip-On Barrel Nut M06-1.00	9
4	46776	Cover Bracket	4
5	50445	Screw HHCS M06-1.00 × 16	4
6	53046	WSHR M06 Spring Washer	4
7	50000	WSHR M06 Standard Flat Washer	4
8	46777	Cover Bracket	1
9	50033	Screw HHCS M10-1.50 × 25	2
10	53054	WSHR M10 Spring Washer	2
11	50002	WSHR M10 Standard Flat Washer	2
12	46778	Left Wheel Cover	1
13	46779	Right Wheel Cover	1
14	46780	Right Chassis Cover	1
15	46781	Middle Chassis Cover	1

Chassis Covers Installation, New Style

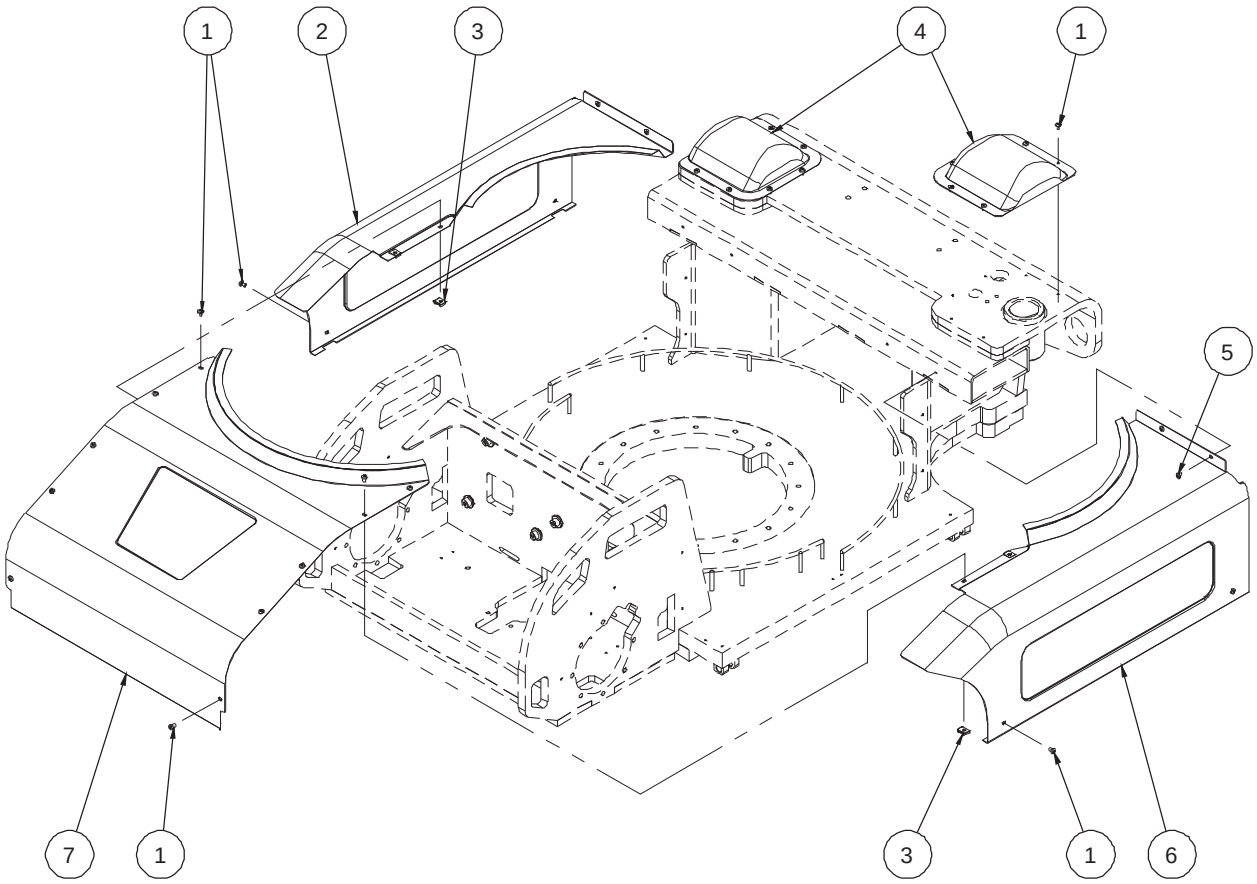


ILLUSTRATION No. ART_6034 MME30-RJ Chassis Covers Installation

Item	Part Number	Description	Qty.
1	53507	Screw PHMS M06-1.00 × 10 ZP	26
2	48481	Left Cover	1
3	53481	No-Slip Clip-On Barrel Nut M06-1.00 ZP	4
4	48482	Cover	2
5	53553	Screw PHMS M06-1.00 × 8 ZP	4
6	48483	Right Cover	1
7	48484	Middle Cover	1

Chassis Assembly, Old Style

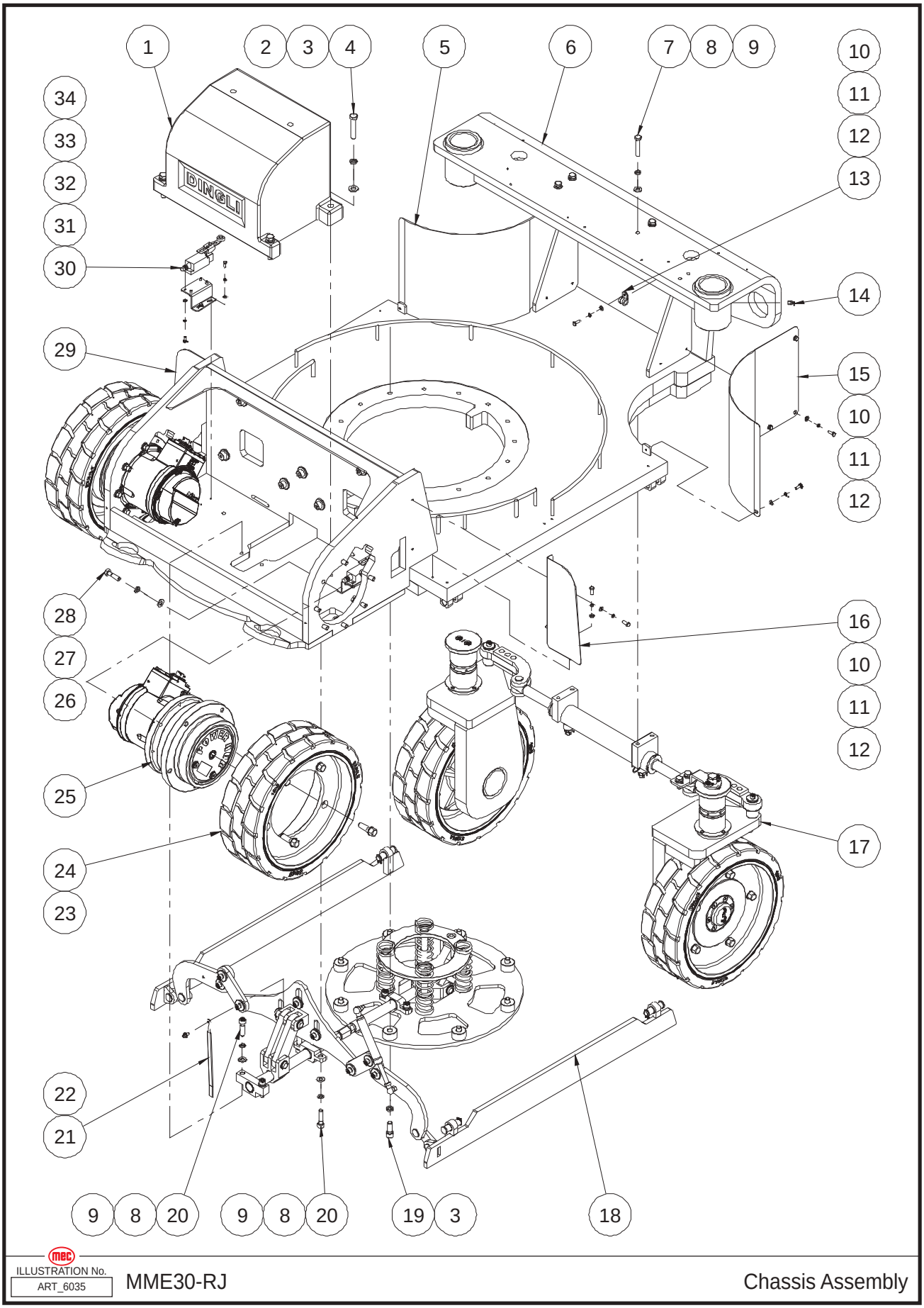


ILLUSTRATION No. ART_6035 MME30-RJ Chassis Assembly

Item	Part Number	Description	Qty.
1	46782	Counterweight	1
2	50003	WSHR M12 Standard Flat Washer	14
3	53148	WSHR M12 Spring Washer	22
4	50265	Screw HHCS M12-1.75 × 60	4
5	46783	Rear Baffle Plate	1
6	46784	Frame Weldment	1
7	50020	Screw HHCS M10-1.50 × 50	4
8	53054	WSHR M10 Spring Washer	10
9	50002	WSHR M10 Standard Flat Washer	10
10	50000	WSHR M06 Standard Flat Washer	15
11	53046	WSHR M06 Spring Washer	15
12	50445	Screw HHCS M06-1.00 × 16	15
13	46785	Clamp	1
14	46786	Grease Nipple	2
15	46787	Rear Baffle Plate	1
16	46788	Front Baffle Plate	1
17	REF	Steer Linkage and Wheels Assembly (Refer to page 45)	1
18	REF	Pothole Protection Assembly (Refer to page 47)	1
19	53508	Hexagon SHCS M12-1.50 × 30	8
20	50440	Screw SHCS M10-1.50 × 40	4
21	41003	Ground Strap	1
22	53260	Screw HHCS M06-1.00 × 10 Serrated Flange	1
23	53509	Bolt	10
24	46358	Wheel	2
25	46354	Drive Motor Assembly	2
--	46355	Reducer	1
--	46356	Motor	1
--	46357	Brake	1
26	53317	WSHR 3/8 Standard Flat Narrow Washer	14
27	53316	WSHR 3/8 Spring Washer	14
28	53447	Screw HHCS 3/8-16 × 1 1/2	14
29	46789	Front Baffle Plate	1
30	42402	Limit Switch	2
31	46790	Switch Bracket	2
32	53038	WSHR M05 Standard Flat Washer	12
33	53043	WSHR M05 Spring Washer	12
34	53081	Screw HHCS M05-0.80 × 12	12

REF - Reference

Chassis Assembly, New Style

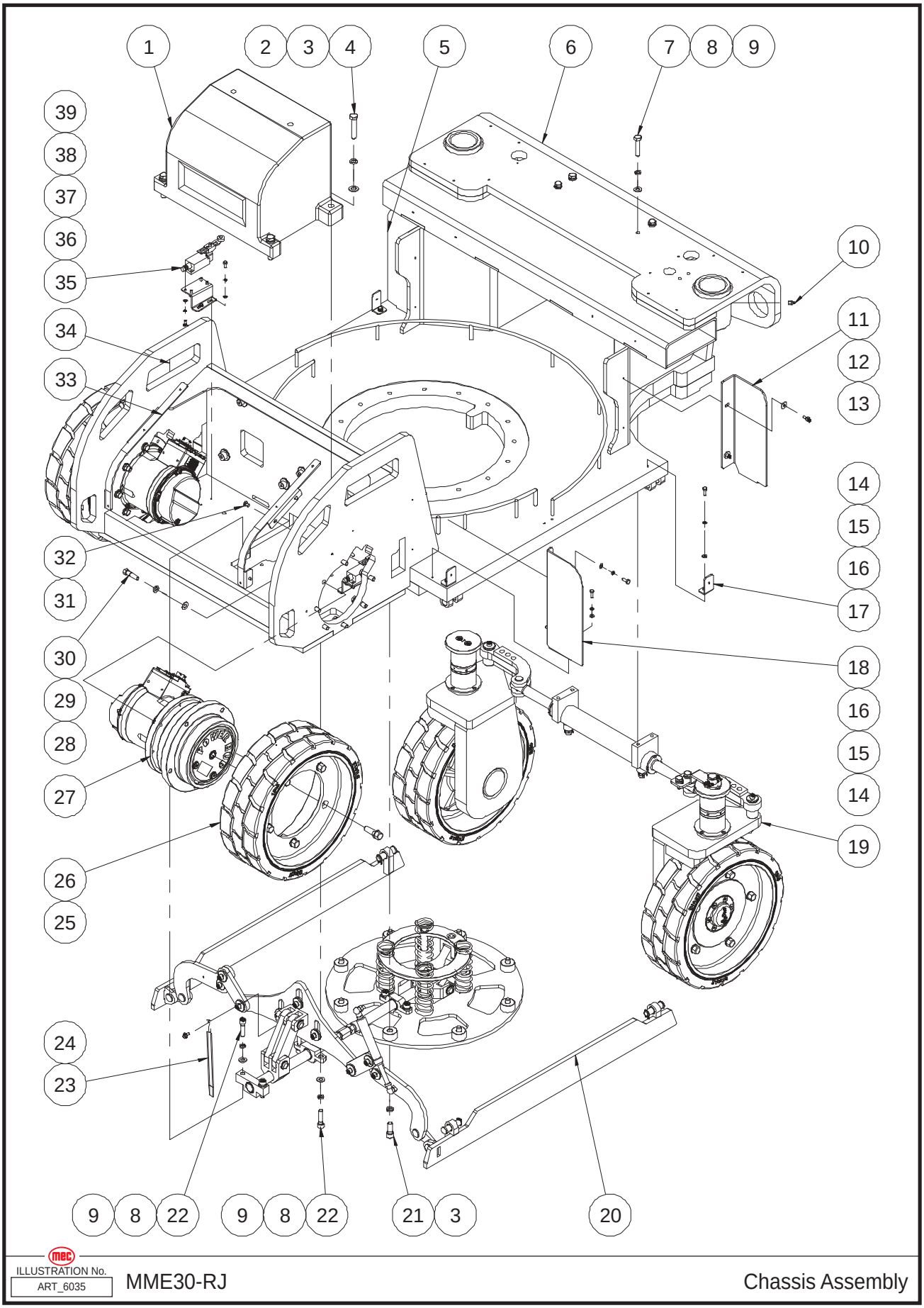


ILLUSTRATION No. ART_6035 MME30-RJ Chassis Assembly

Item	Part Number	Description	Qty.
1	46782	Counterweight	1
2	50003	WSHR M12 Standard Flat Washer ZP	4
3	53148	WSHR M12 Spring Washer ZP	12
4	50265	Screw HHCS M12-1.75 × 60 ZP	4
5	45882	Behind Baffle Plate	1
6	45883	Frame Weldment	1
7	50020	Screw HHCS M10-1.50 × 50 ZP	4
8	53054	WSHR M10 Spring Washer ZP	10
9	50002	WSHR M10 Standard Flat Washer ZP	10
10	46786	Grease Nipple	2
11	45884	Behind Baffle Plate	1
12	53380	Screw SHCS M06-1.00 × 12 ZP	4
13	50068	WSHR M06 Flat Fender Washer ZP	4
14	50445	Screw HHCS M06-1.00 × 16 ZP	10
15	53046	WSHR M06 Spring Washer ZP	10
16	50000	WSHR M06 Standard Flat Washer ZP	9
17	46776	Cover Bracket	4
18	45885	Front Baffle Plate	1
19	REF	Steer Linkage and Wheels Assembly (Refer to page 45)	1
20	REF	Pothole Protection Assembly (Refer to page 49)	1
21	53508	Hexagon SHCS M12-1.50 × 30, Grade 12.9 ZP	8
22	50440	Screw SHCS M10-1.50 × 40 ZP	4
23	41003	Ground Strap	1
24	53260	Screw HHCS M06-1.00 × 10 Serrated Flange ZP	1
25	53509	Screw HHCS M12-1.50 × 40 ZP	10
26	46358	Wheel	2
27	46354	Drive Motor Assembly	2
--	46355	Reducer	1
--	46356	Motor with brake	1
--	46357	Brake	1
28	53317	WSHR 3/8 Standard Flat Narrow Washer ZP	14
29	53316	WSHR 3/8 Spring Washer ZP	14
30	53447	Screw HHCS 3/8-16 × 1 1/2 ZP	14
31	45886	Plate, Bracket	1
32	53507	Screw PHMS M06-1.00 × 10 ZP	6
33	45890	Plate, Bracket	1
34	45891	Front Baffle Plate	1
35	42402	Limit Switch	2
36	46790	Switch Bracket	2
37	53038	WSHR M05 Standard Flat Washer ZP	12
38	53043	WSHR M05 Spring Washer ZP	12
39	53081	Screw HHCS M05-0.80 × 12 ZP	12

REF - Reference

Steer Linkage and Wheels Assembly

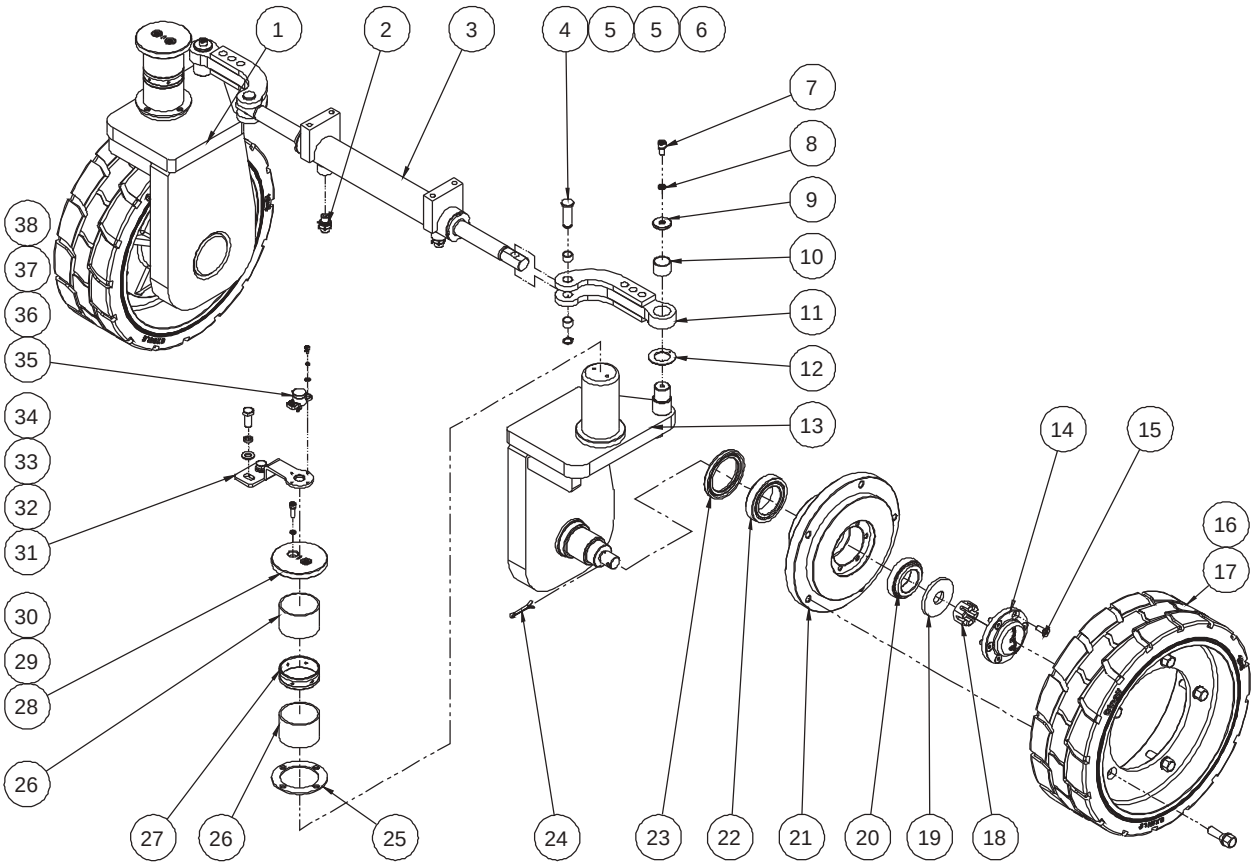


ILLUSTRATION No. ART_6036

MME30-RJ

Steer Linkage and Wheel Assembly

Item	Part Number	Description	Qty.
1	46791	Steer Yoke Weldment	1
2	46792	Straight Fitting	2
3	46793	Steer Cylinder	1
--	46794	Seal Kit	1
4	46795	Pin	2
5	44309	Bearing	4
6	46796	Circlips	2
7	53379	Screw SHCS M08-1.25 × 16	2
8	53055	WSHR M08 Spring Washer	2
9	46797	Washer	2
10	41046	Bearing	2
11	46798	Tie Rod Weldment	2
12	41019	Bearing	1
13	46799	Steer Yoke Weldment	1
14	41328	Cap	2
15	53282	Screw CSCS M08-1.25 × 20	12
16	53509	Screw HHCS M12-1.50 × 40	10
17	46358	Wheel	2
18	53262	Castle Nut M22-1.50	2
19	46800	Washer	2
20	46801	Bearing	2
21	46802	Connection Plate	2
22	46803	Bearing	2
23	46804	Seal	2
24	44739	Cotter Pin	2
25	46805	Bearing	2
26	46806	Bearing	4
27	46807	Spacer Sleeve	2
28	46808	Cover	2
29	53046	WSHR M06 Spring Washer	4
30	53124	Screw SHCS M06-1.00 × 20	4
31	46809	Sensor Bracket	1
32	50002	WSHR M10 Standard Flat Washer	2
33	53054	WSHR M10 Spring Washer	2
34	50033	Screw HHCS M10-1.50 × 25	2
35	46810	Rotary Sensor	1
36	50284	WSHR M04 Standard Flat Washer	2
37	53062	WSHR M04 Spring Washer	2
38	53389	Screw SHCS M04-0.70 × 8	2

Pothole Protection Assembly, Old Style

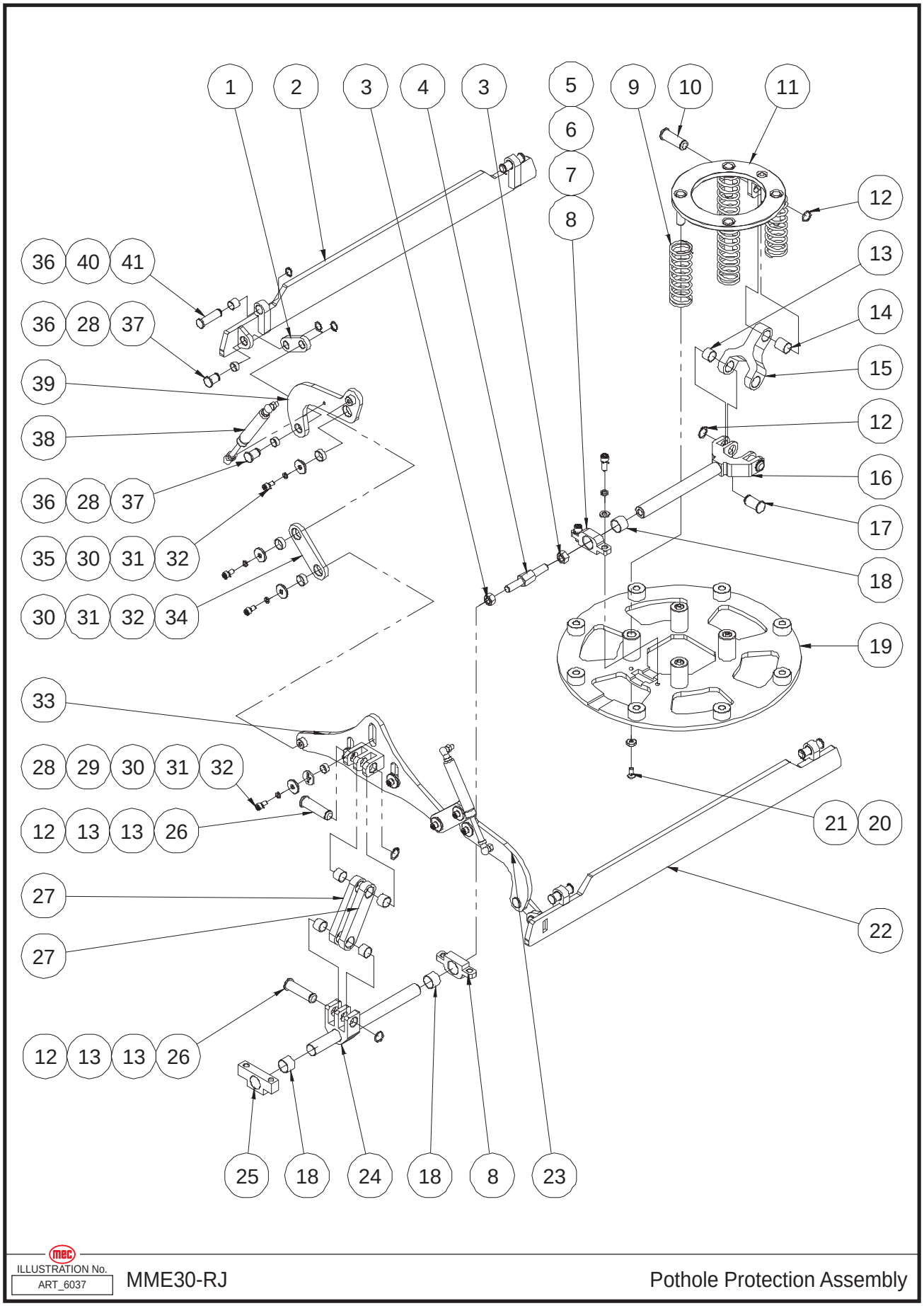


ILLUSTRATION No. ART_6037 MME30-RJ Pothole Protection Assembly

Item	Part Number	Description	Qty.
1	46811	Pothole Link Plate	2
2	46812	Pothole Guard Weldment	1
3	53510	Nut NHEX M14-2.00	2
4	46813	Adjusting Screw	1
5	53511	Screw SHCS M10-1.50 × 25	2
6	53054	WSHR M10 Spring Washer	2
7	50002	WSHR M10 Standard Flat Washer	2
8	46814	Rod Bracket	2
9	46815	Spring	4
10	46816	Pin	1
11	46817	Pothole Hole Pusher Plate	1
12	43574	Circlips	5
13	46818	Bearing	6
14	46819	Bearing	1
15	46820	Clevis Yoke	1
16	46821	Connection Rod Weldment	1
17	46822	Pin	2
18	41046	Bearing	3
19	46823	Pothole Hole Pusher Bracket	1
20	46824	Washer	4
21	53282	Screw CSCS M08-1.25 × 20	4
22	46825	Pothole Guard Weldment	1
23	46826	Linkage Weldment	1
24	46827	Connection Rod Weldment	1
25	46828	Rod Bracket	1
26	46829	Pin	2
27	46830	Pothole Link Plate	2
28	41225	Bearing	7
29	46831	Bearing	3
30	46797	Washer	9
31	53055	WSHR M08 Spring Washer	9
32	53379	Screw SHCS M08-1.25 × 16	9
33	46832	Linkage Weldment	1
34	46833	Pothole Link Plate	2
35	41214	Bearing	6
36	46834	Circlips	8
37	46835	Pin	4
38	46836	Gas Shock	2
39	46837	Linkage Weldment	1
40	46838	Bearing	4
41	46839	Pin	4

Pothole Protection Assembly, New Style

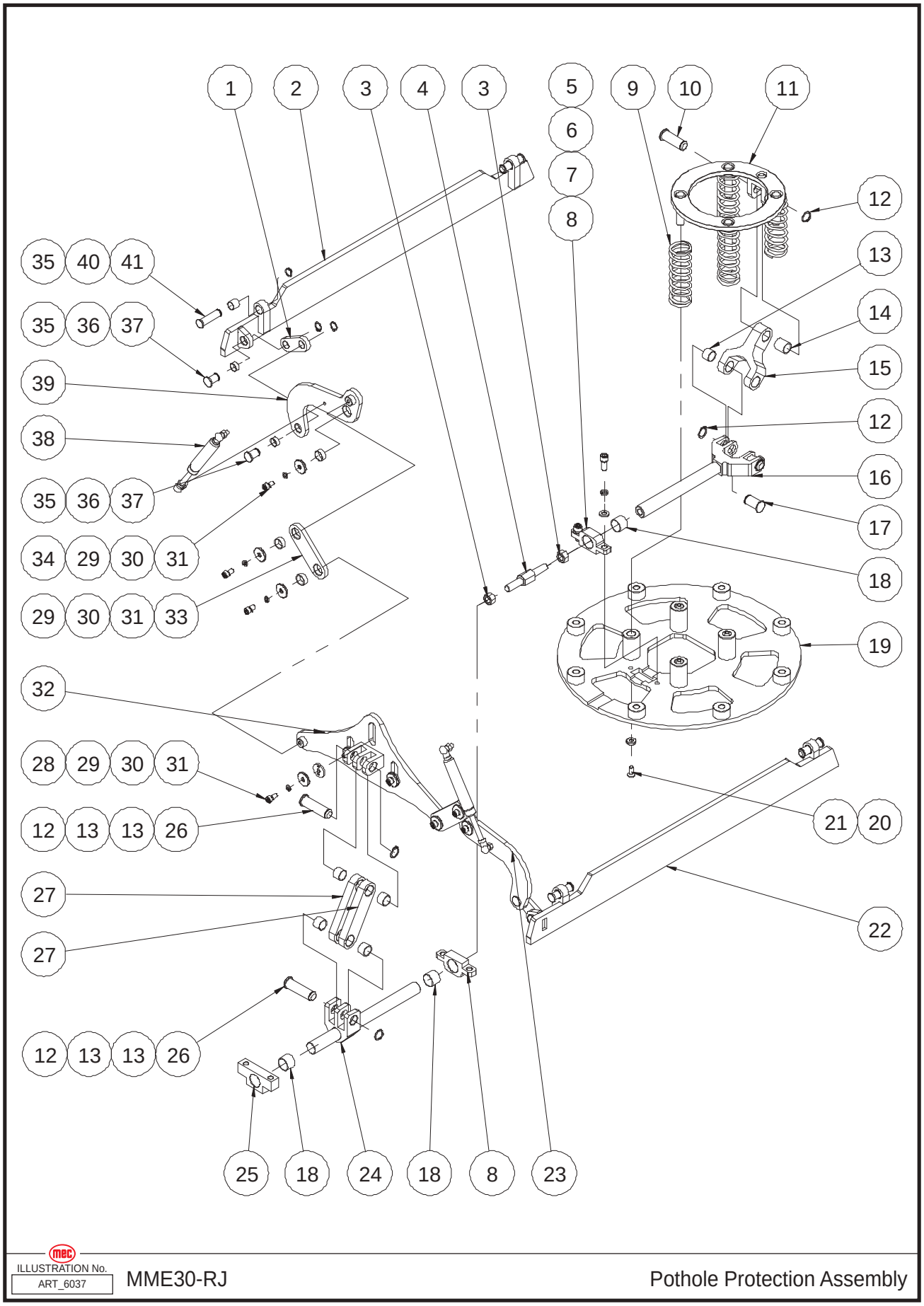
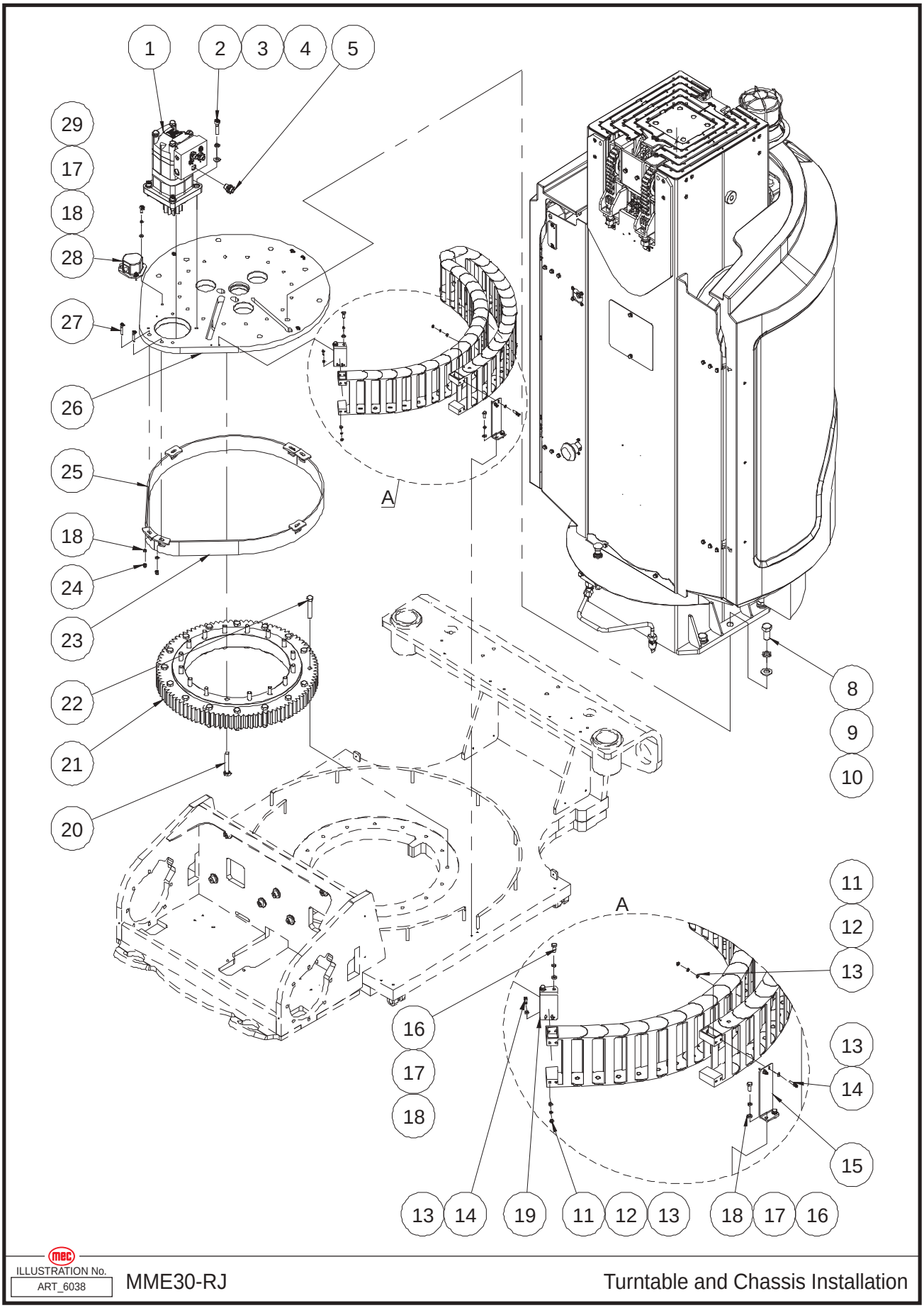


ILLUSTRATION No. ART_6037 MME30-RJ Pothole Protection Assembly

Item	Part Number	Description	Qty.
1	46811	Pothole Link Plate	2
2	45892	Pothole Guard Weldment	1
3	53510	Nut NHEX M14-2.00 ZP	2
4	46813	Adjusting Screw	1
5	53511	Screw SHCS M10-1.50 × 25 ZP	2
6	53054	WSHR M10 Spring Washer ZP	2
7	50002	WSHR M10 Standard Flat Washer ZP	2
8	46814	Rod Bracket	2
9	46815	Spring	4
10	46816	Pin	1
11	46817	Pothole Hole Pusher Plate	1
12	43574	Circlips	5
13	46818	Bearing	6
14	46819	Bearing	1
15	46820	Clevis Yoke	1
16	46821	Connection Rod Weldment	1
17	46822	Pin	2
18	41046	Bearing	3
19	46823	Pothole Hole Pusher Bracket	1
20	46824	Washer	4
21	53282	Screw CSCS M08-1.25 × 20 ZP	4
22	46825	Pothole Guard Weldment	1
23	46826	Linkage Weldment	1
24	46827	Connection Rod Weldment	1
25	46828	Rod Bracket	1
26	46829	Pin	2
27	46830	Pothole Link Plate	2
28	46831	Bearing	3
29	46797	Washer	9
30	53055	WSHR M08 Spring Washer ZP	9
31	53379	Screw SHCS M08-1.25 × 16 ZP	9
32	46832	Linkage Weldment	1
33	46833	Pothole Link Plate	2
34	41214	Bearing	6
35	46834	Circlips	8
36	41225	Bearing	4
37	46835	Pin	4
38	46836	Gas Shock	2
39	46837	Linkage Weldment	1
40	46838	Bearing	4
41	46839	Pin	4

Turntable and Chassis Installation



Item	Part Number	Description	Qty.
1	46840	Rotation Motor	1
2	50440	Screw SHCS M10-1.50 × 40	4
3	53054	WSHR M10 Spring Washer	4
4	50002	WSHR M10 Standard Flat Washer	4
5	46841	Straight Fitting	3
6	46842	Towline	1
7	REF	Turntable Assembly (Refer to page 55)	1
8	53512	Screw HHCS M18-2.50 × 35	6
9	53513	WSHR M18 Spring Washer	6
10	53514	WSHR M18 Standard Flat Washer	6
11	53157	Nut NHEX M04-0.70	4
12	53062	WSHR M04 Spring Washer	4
13	50284	WSHR M04 Standard Flat Washer	8
14	53113	Screw SHCS M04-0.70 × 16	4
15	46843	Towline Bracket	1
16	50445	Screw HHCS M06-1.00 × 16	4
17	53046	WSHR M06 Spring Washer	6
18	50000	WSHR M06 Standard Flat Washer	12
19	46844	Towline Bracket	1
20	53515	Screw HHCS M12-1.50 × 70	16
21	46845	Gear Ring	1
22	53516	Screw HHCS M12-1.50 × 65	16
23	46846	Protection Board Weldment	1
24	50047	Nut NNYL M06-1.00	6
25	46847	Protection Board Weldment	1
26	46848	Mast Soleplate Weldment	1
27	53207	Screw SHCS M06-1.00 × 30	6
28	46849	Tilt Sensor	1
29	53138	Screw SHCS M06-1.00 × 16	3

REF - Reference

Turntable Covers Installation

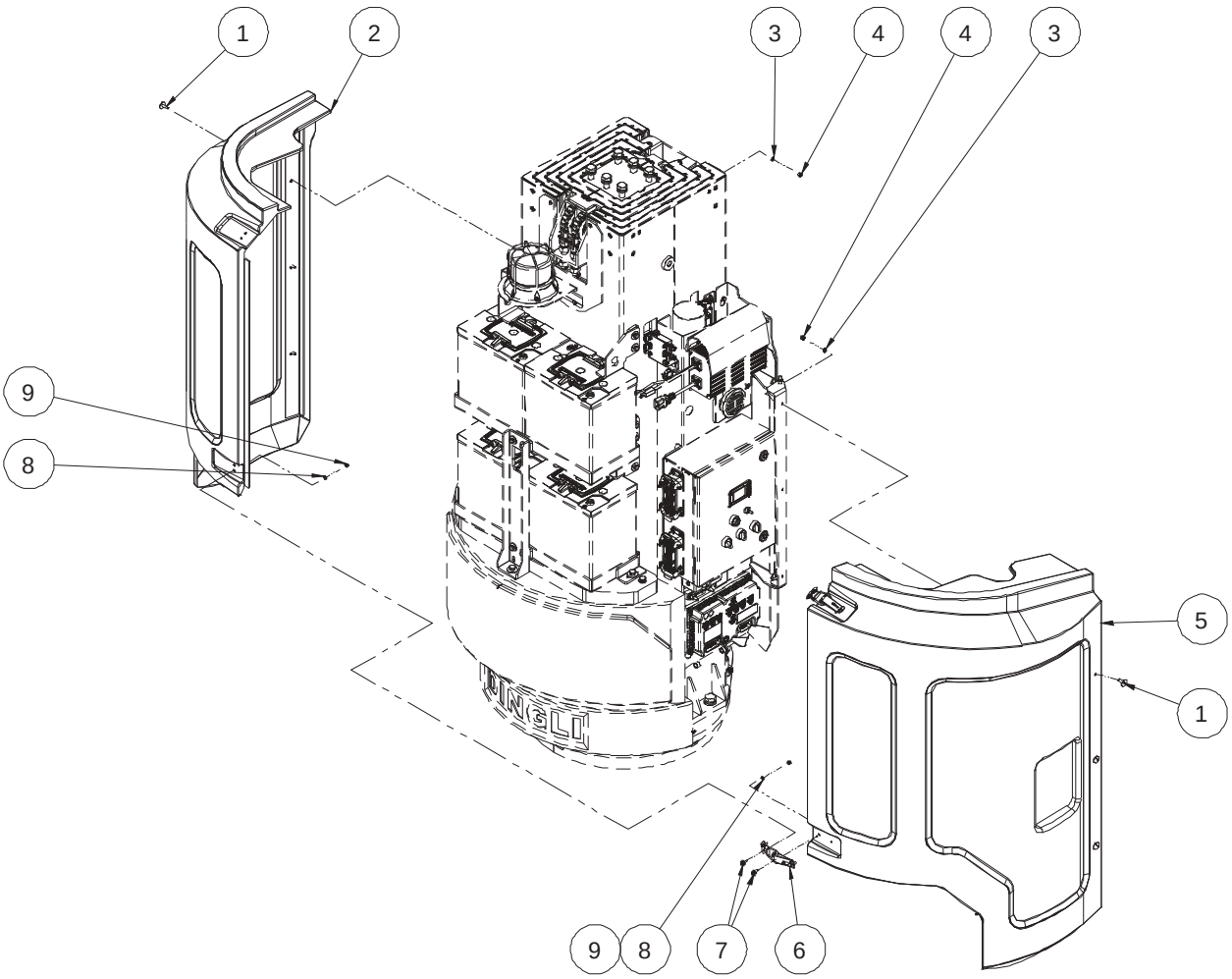


ILLUSTRATION No. ART_6039 MME30-RJ Turntable Covers Installation

Item	Part Number	Description	Qty.
1	46850	Screw	6
2	46851	Right Turntable Cover	1
3	50000	WSHR M06 Standard Flat Washer	6
4	50047	Nut NNYL M06-1.00	6
5	46852	Left Turntable Cover	1
6	44296	Lock	2
7	53224	Screw THMS M05-0.80 × 12	8
8	53038	WSHR M05 Standard Flat Washer	8
9	50524	Nut NNYL M05-0.80	8

Turntable Assembly

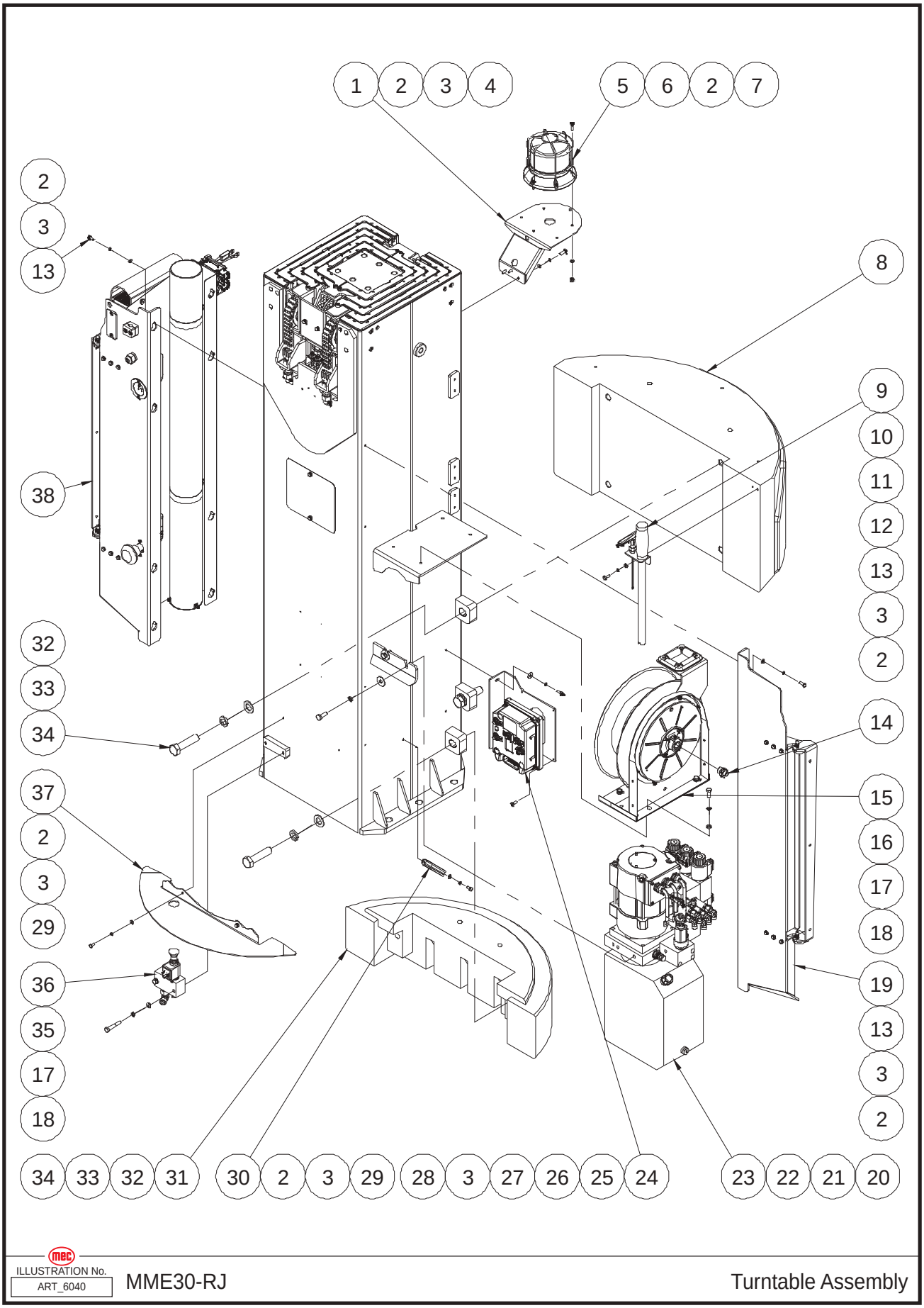


ILLUSTRATION No. ART_6040 MME30-RJ Turntable Assembly

Item	Part Number	Description	Qty.
1	46853	Beacon Bracket	1
2	50000	WSHR M06 Standard Flat Washer	23
3	53046	WSHR M06 Spring Washer	22
4	50028	Screw HHCS M06-1.00 × 20	3
5	43442	Beacon	1
6	50047	Nut NNYL M06-1.00	3
7	53124	Screw SHCS M06-1.00 × 20	3
8	46854	Counterweight	1
9	46855	Handle	1
10	46856	Allen Wrench	1
11	46857	Water-Proof Joint	1
12	46858	Handle Bracket	1
13	50445	Screw HHCS M06-1.00 × 16	14
14	46841	Straight Fitting	1
15	46859	Hydraulic Hose Reel	1
16	50030	Screw HHCS M08-1.25 × 20	4
17	53055	WSHR M08 Spring Washer	6
18	50001	WSHR M08 Standard Flat Washer	6
19	REF	Right Accessory Assembly (Refer to page 57)	1
20	53375	WSHR M10 Flat Fender Washer	2
21	53054	WSHR M10 Spring Washer	2
22	50033	Screw HHCS M10-1.50 × 25	2
23	REF	Hydraulic Power Unit Assembly (Refer to page 59)	1
24	46250	Motor Controller Bracket	1
25	53231	Screw PHMS M06-1.00 × 16	4
26	46860	Motor Controller Bracket	1
27	53138	Screw SHCS M06-1.00 × 16	2
28	50068	WSHR M06 Flat Fender Washer	2
29	53104	Screw HHCS M06-1.00 × 12	3
30	46861	Clamp	1
31	46862	Counterweight	1
32	50005	WSHR M20 Standard Flat Washer	6
33	53517	WSHR M20 Spring Washer	6
34	53518	Screw HHCS M20-2.50 × 80	6
35	50015	Screw HHCS M08-1.25 × 50	2
36	REF	Emergency Lowering Manifold (Refer to page 63 for Danfoss, page 65 for Yuethai)	1
37	46863	Lower Housing	1
38	REF	Left Accessory Assembly (Refer to page 67)	1

REF - Reference

Right Accessory Assembly

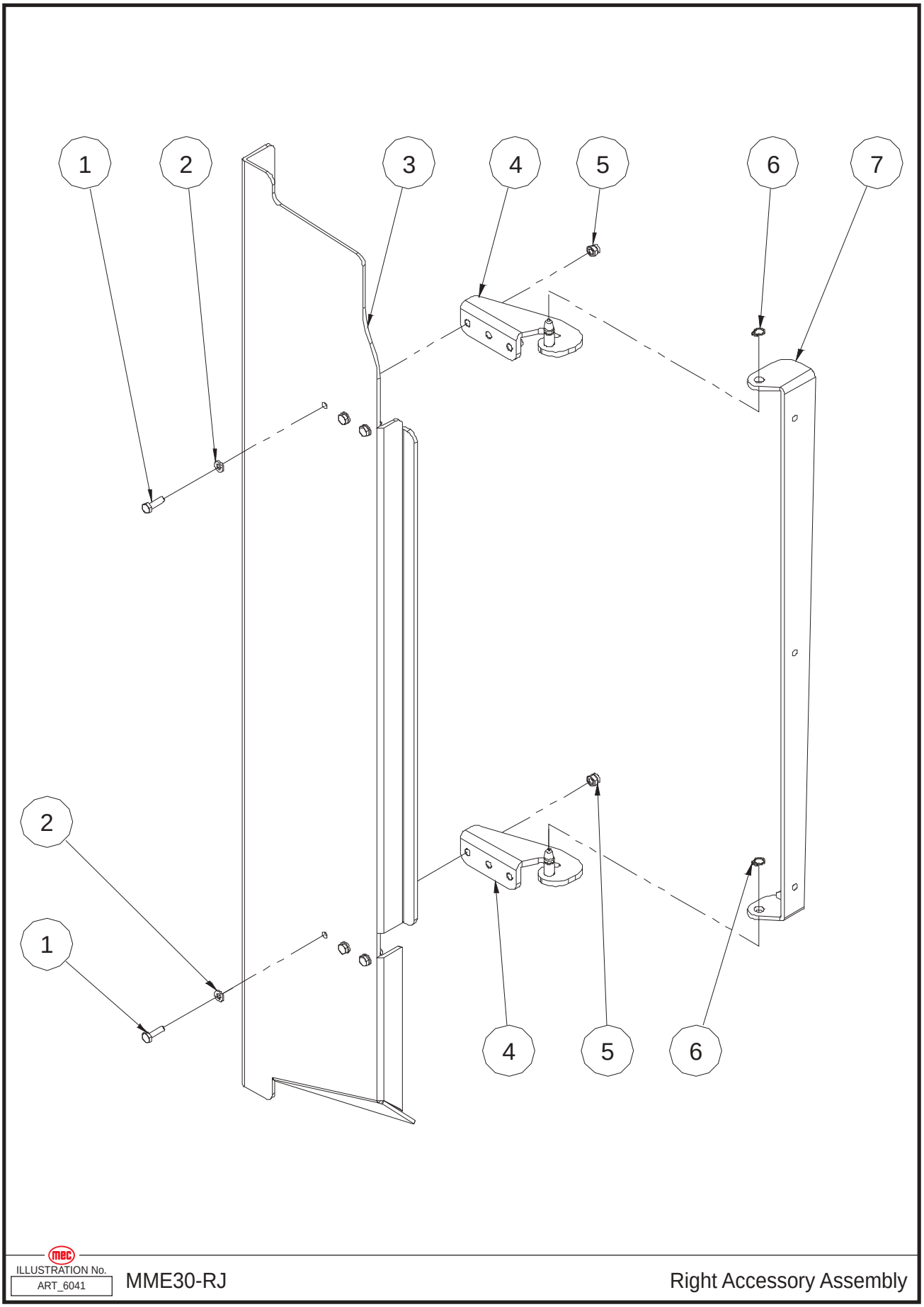


ILLUSTRATION No. ART_6041 MME30-RJ Right Accessory Assembly

Item	Part Number	Description	Qty.
1	50028	Screw HHCS M06-1.00 × 20	6
2	50000	WSHR M06 Standard Flat Washer	6
3	46864	Right Plate	1
4	46865	Hinge Seat	2
5	50047	Nut NNYL M06-1.00	6
6	46866	Circlips	2
7	46867	Hinge	1

Hydraulic Power Unit Assembly

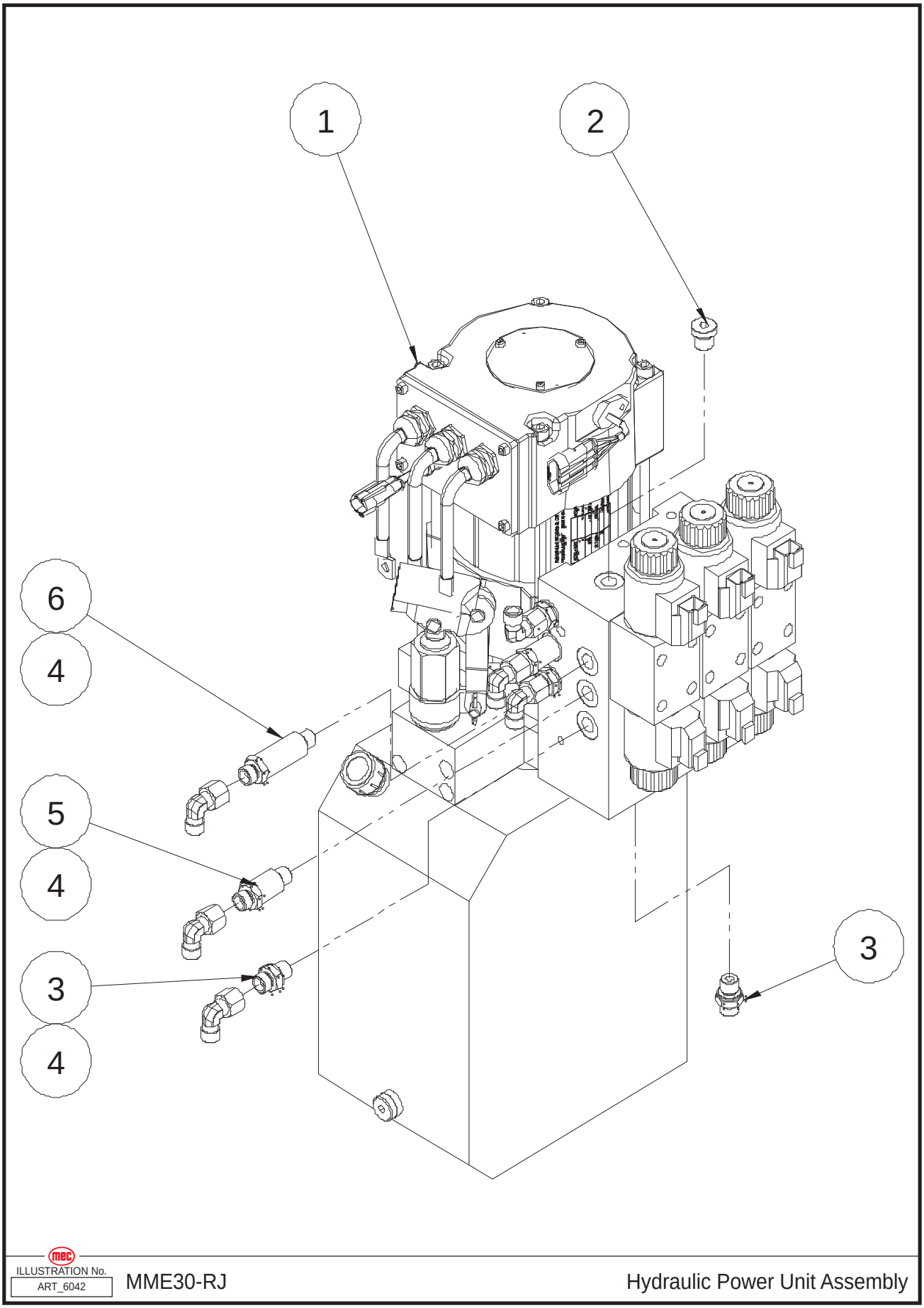


ILLUSTRATION No. ART_6042 MME30-RJ Hydraulic Power Unit Assembly

Item	Part Number	Description	Qty.
1	46868	Hydraulic Power Unit (Refer to page 61)	1
2	46869	Plug	1
3	46792	Straight Fitting	5
4	43077	Elbow	6
5	46870	Straight Fitting	2
6	46871	Straight Fitting	1

Hydraulic Power Unit

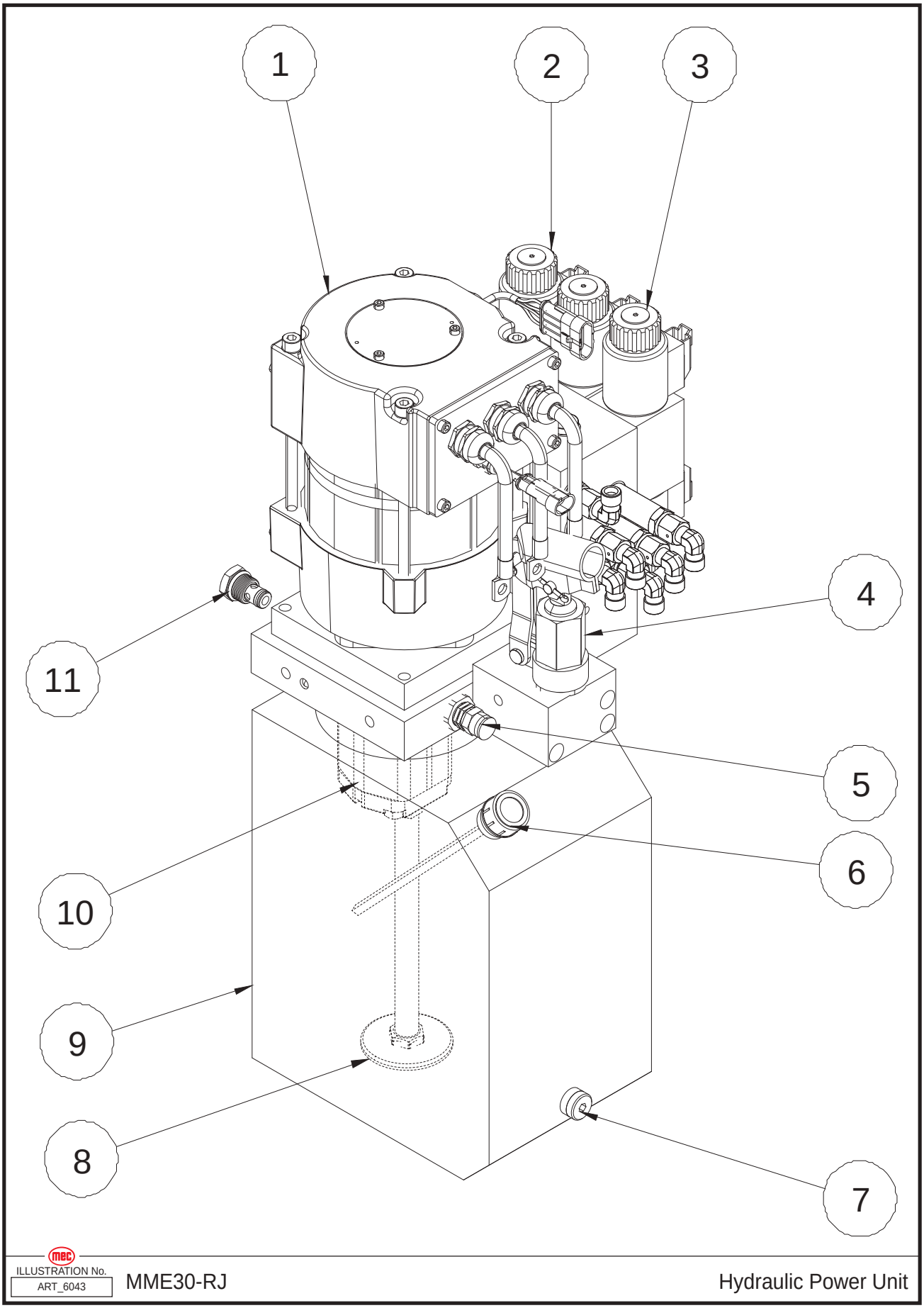
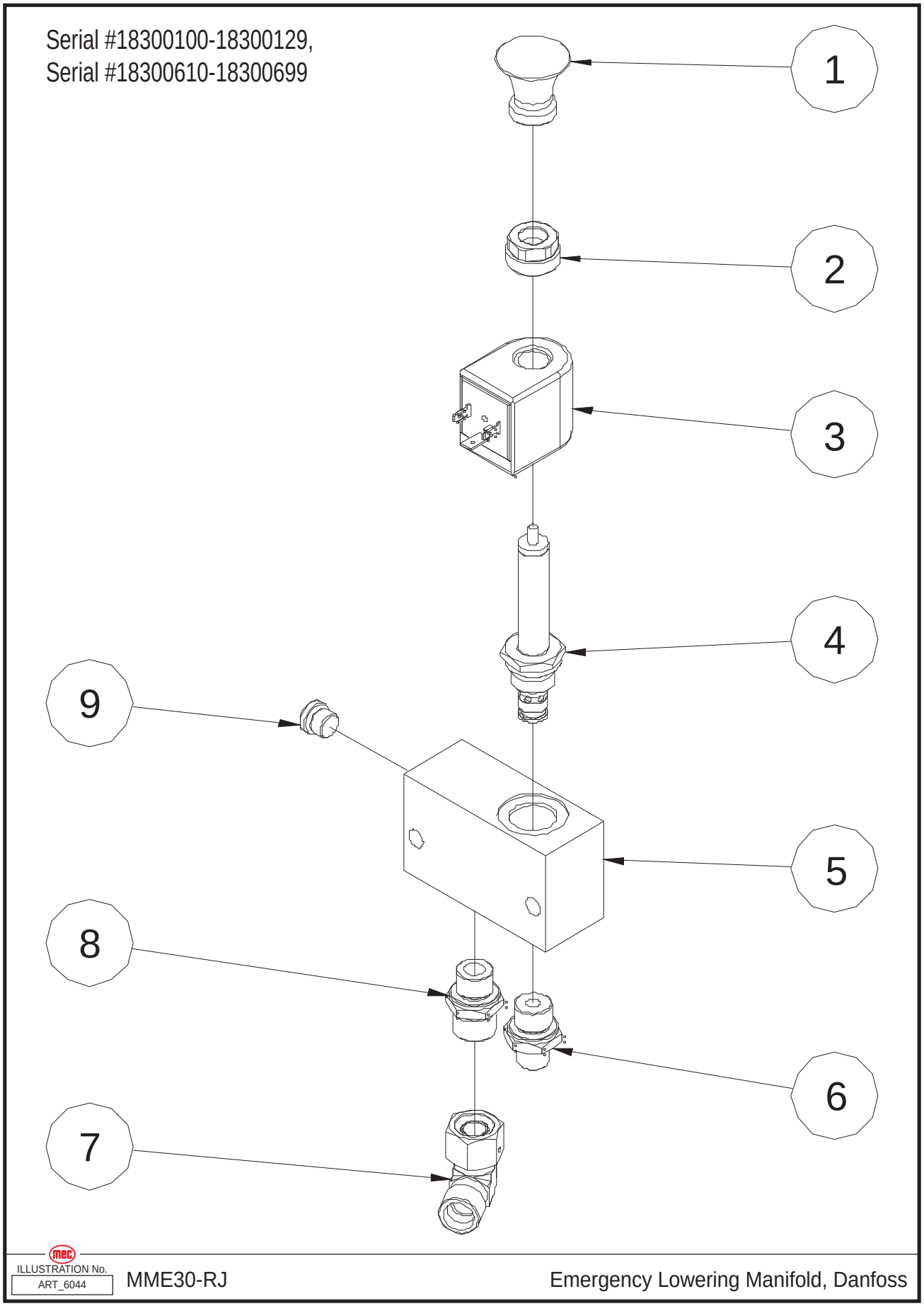


ILLUSTRATION No. ART_6043 MME30-RJ Hydraulic Power Unit

Item	Part Number	Description	Qty.
1	46872	Lift Motor	1
2	46873	Solenoid Valve, Steer & Turret Rotate	2
3	46874	Solenoid Valve, Jib	1
4	46875	Manual Pump	1
5	46876	Relief Valve	1
6	46877	Tank Cover	1
7	43808	Plug	1
8	46878	Filter Web	1
9	46879	Tank	1
10	46880	Pump	1
11	43811	Check Valve	1

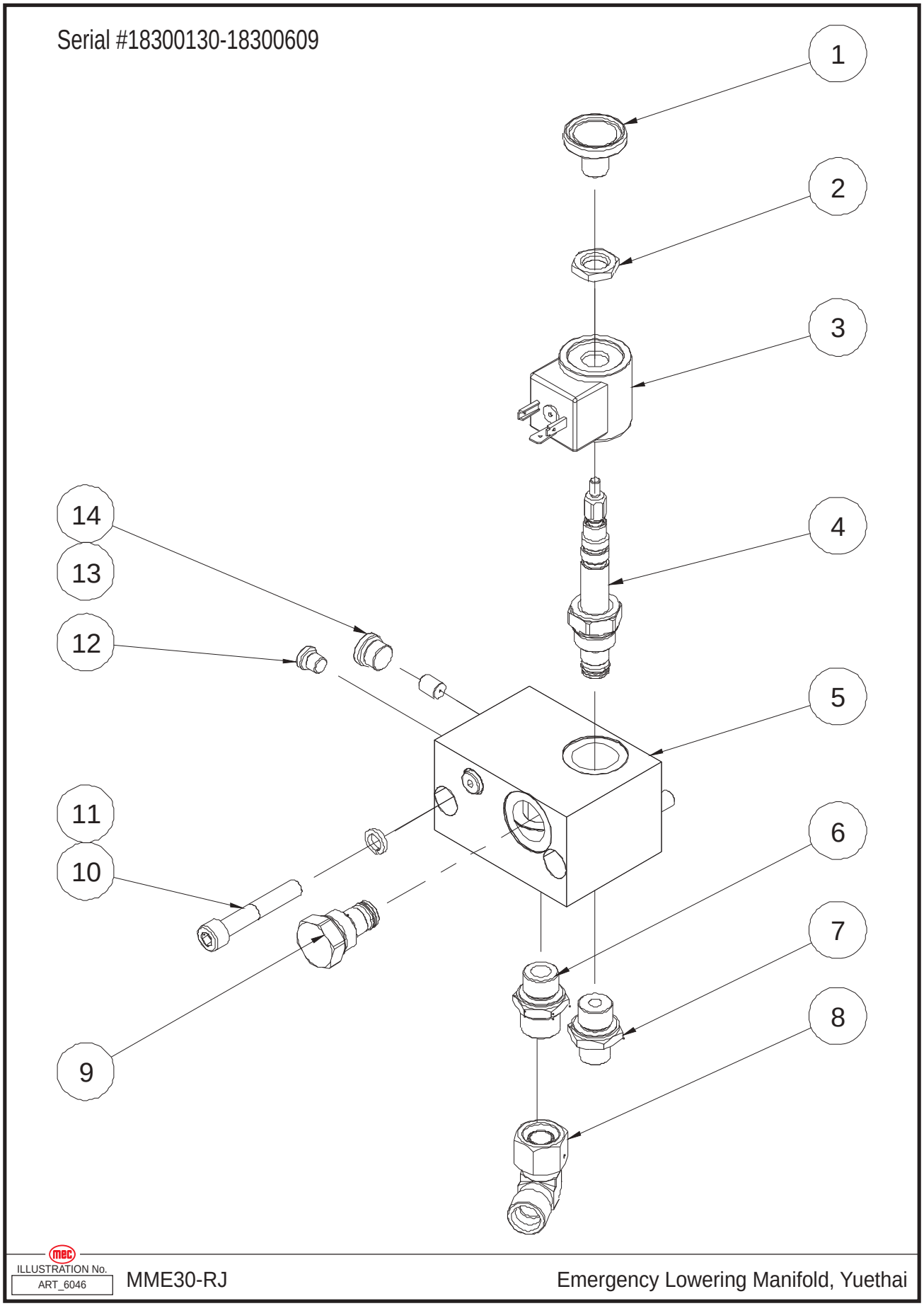
Emergency Lowering Manifold, Danfoss



Serial #18300100-18300129, Serial #18300610-18300699

Item	Part Number	Description	Qty.
1	46881	Handle	1
2	43405	Nut	1
3	46882	Coil	1
4	46883	Solenoid Valve Spool	1
5	46884	Valve Body	1
6	46885	Straight Fitting	1
7	43082	Elbow	1
8	46886	Straight Fitting	1
9	42821	Plug	1

Emergency Lowering Manifold, Yuethai



Serial #18300130-18300609

Item	Part Number	Description	Qty.
1	41162	Handle	1
2	53362	Nut NHEX 1/2-20 UNF	1
3	46889	Coil	1
4	46890	Solenoid Valve Spool	1
5	46891	Valve Body	1
6	46886	Straight Fitting	1
7	46885	Straight Fitting	1
8	43082	Elbow	1
9	46892	Check Valve	1
10	53492	Screw SHCS M08-1.25 × 50	2
11	53055	WSHR M08 Spring Washer	2
12	43465	Plug	2
13	46893	Orifice	1
14	42802	Plug	1

Left Accessory Assembly

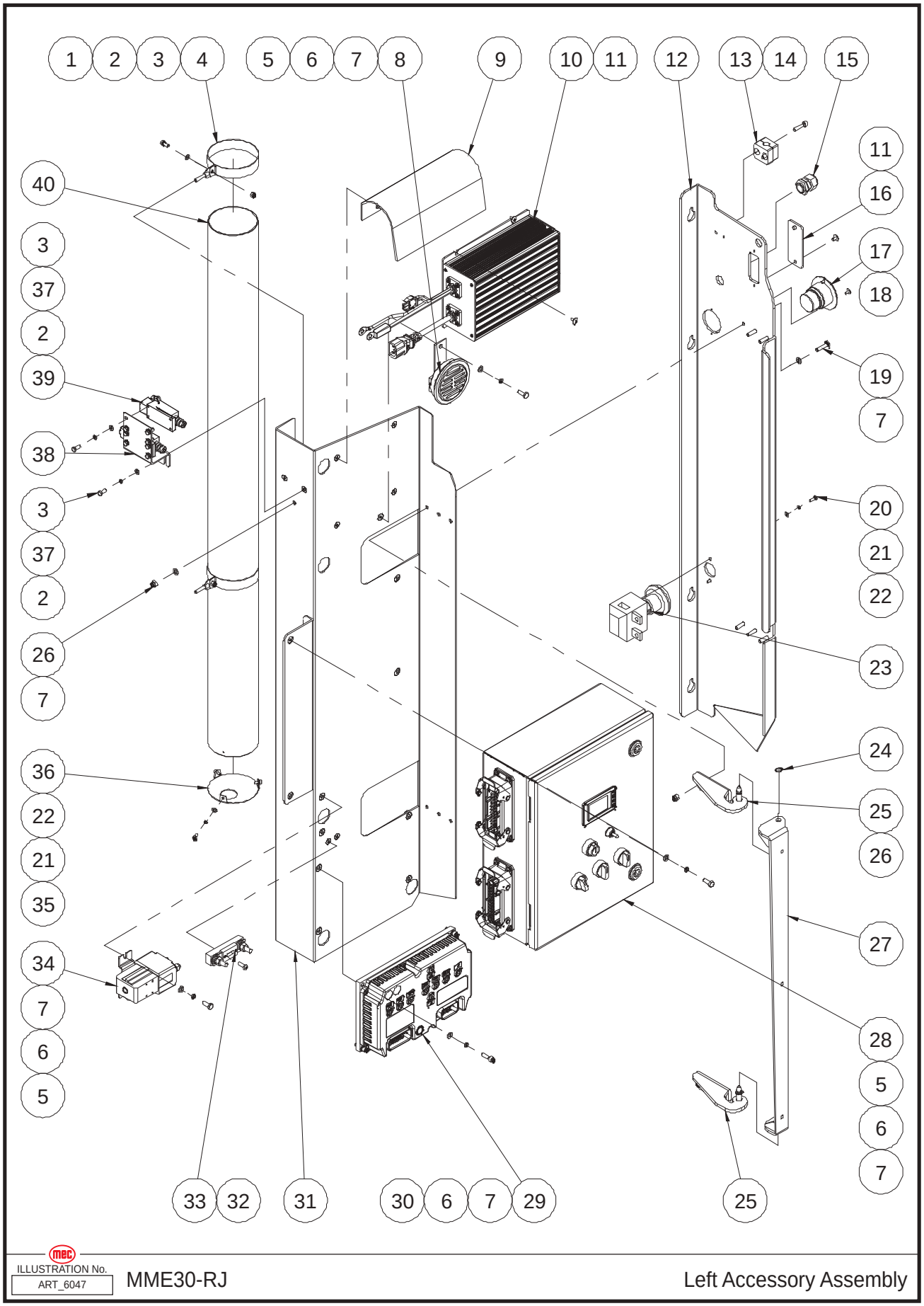


ILLUSTRATION No. ART_6047

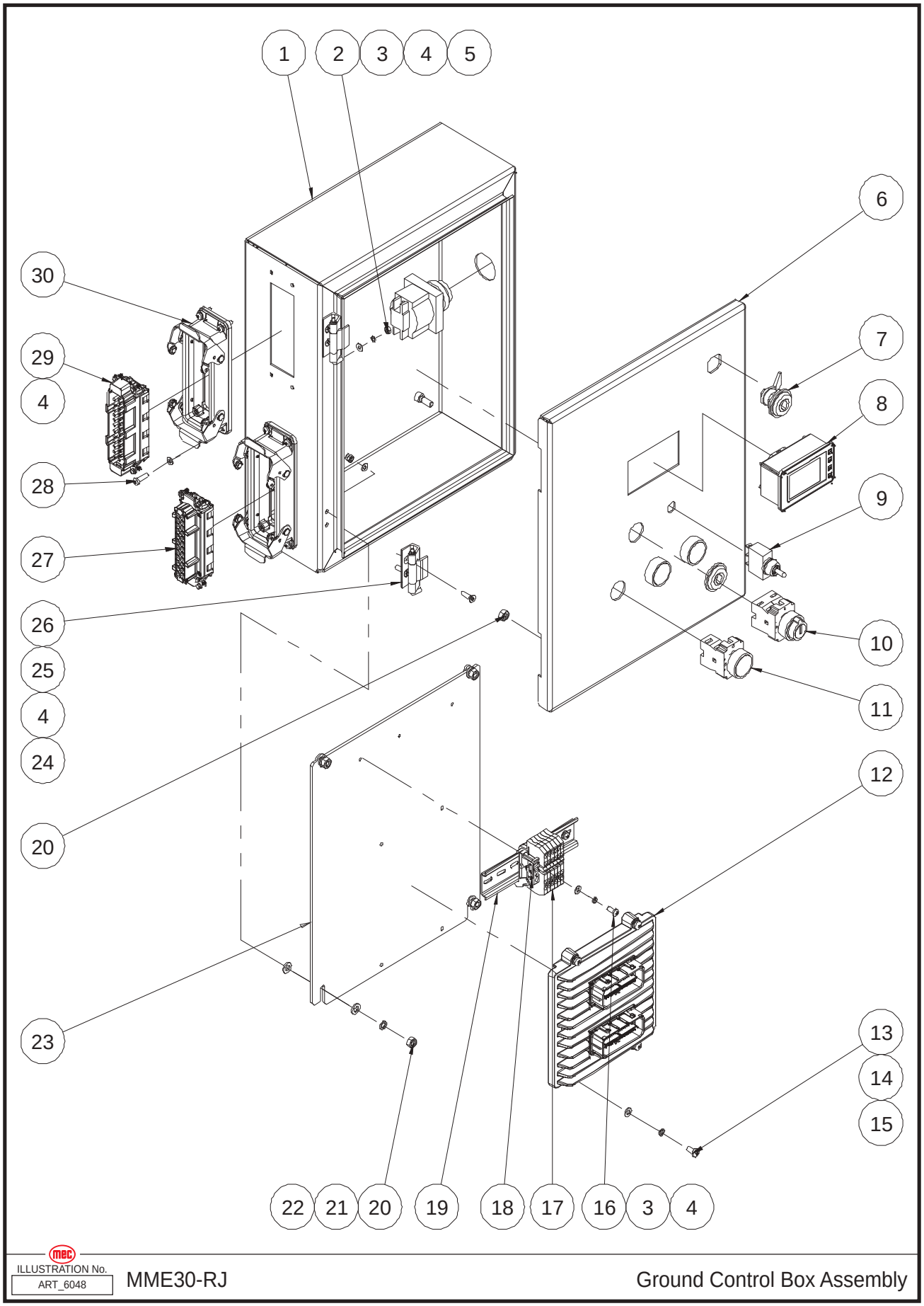
MME30-RJ

Left Accessory Assembly

Item	Part Number	Description	Qty.
1	50524	Nut NNYL M05-0.80	2
2	53038	WSHR M05 Standard Flat Washer	12
3	53081	Screw HHCS M05-0.80 × 12	12
4	46894	Clamp	2
5	50445	Screw HHCS M06-1.00 × 16	7
6	53046	WSHR M06 Spring Washer	11
7	50000	WSHR M06 Standard Flat Washer	19
8	41075	Horn	1
9	46895	Charger Protection Plate	1
10	43589	Charger	1
11	53451	Screw THMS M05-0.80 × 8	6
12	46896	Left Plate	1
13	44698	Hose Clamp	1
14	53123	Screw SHCS M06-1.00 × 25	2
15	41273	Water-Proof Joint	1
16	46897	Cover	1
17	41575	Plug	1
18	53263	Screw THMS M04-0.70 × 8	2
19	50117	Screw HHCS M06-1.00 × 25	6
20	53519	Screw PHMS M04-0.70 × 12	2
21	53062	WSHR M04 Spring Washer	5
22	50284	WSHR M04 Standard Flat Washer	5
23	42071	Power Switch	1
24	46866	Circlips	2
25	46898	Hinge Seat	2
26	50047	Nut NNYL M06-1.00	8
27	46899	Hinge	1
28	REF	Ground Control Box Assembly (Refer to page 69 or page 71)	1
29	46271	Motor Controller Drive	1
30	53124	Screw SHCS M06-1.00 × 20	4
31	46900	Left Plate	1
32	53351	Screw PHMS M05-0.80 × 16	1
33	44894	250A Fuse Assembly	1
--	41827	250A Fuse	1
34	46901	DC Contactor	1
35	50483	Screw SHCS M04-0.70 × 10	3
36	46902	Tube Cover	1
37	53043	WSHR M05 Spring Washer	10
38	46903	Switch Bracket	1
39	42074	Limit Switch	2
40	46904	Tube	1

REF - Reference

Ground Control Box Assembly, Old Style



Item	Part Number	Description	Qty.
1	46905	Ground Control Box Weldment	1
2	53157	Nut NHEX M04-0.70	8
3	53062	WSHR M04 Spring Washer	10
4	50284	WSHR M04 Standard Flat Washer	22
5	46906	Alarm	1
6	46907	Ground Control Box Cover	1
7	42352	Latch, Column	2
8	48554	Display	1
9	46908	Toggle Switch	1
10	46909	Key Switch	1
--	42959	Key Switch Head	1
--	46910	Base with 1 NO Contact	1
--	91574	Key	1
11	46911	Pushbutton Switch	3
--	46912	Pushbutton Switch Head	1
--	43994	Base with 1 NO Contact	1
12	46913	Controller	1
13	53354	Screw PHMS M05-0.80 × 10	4
14	53043	WSHR M05 Spring Washer	4
15	53038	WSHR M05 Standard Flat Washer	4
16	53259	Screw PHMS M04-0.70 × 10	2
17	42078	End, Straight	6
18	42079	End, Fixation	2
19	46914	Terminal Rail	1
20	53361	Nut NHEX M06-1.00	6
21	53046	WSHR M06 Spring Washer	4
22	50000	WSHR M06 Standard Flat Washer	8
23	46915	Mounting Plate	1
24	50285	Nut NNYL M04-0.70	4
25	53465	Screw CSCS M04-0.70 × 16	4
26	46916	Hinge	2
27	46917	Female Insert	1
28	53520	Screw PHMS M04-0.70 × 16	8
29	46918	Male Insert	1
30	46919	Housing	2

Ground Control Box Assembly, New Style

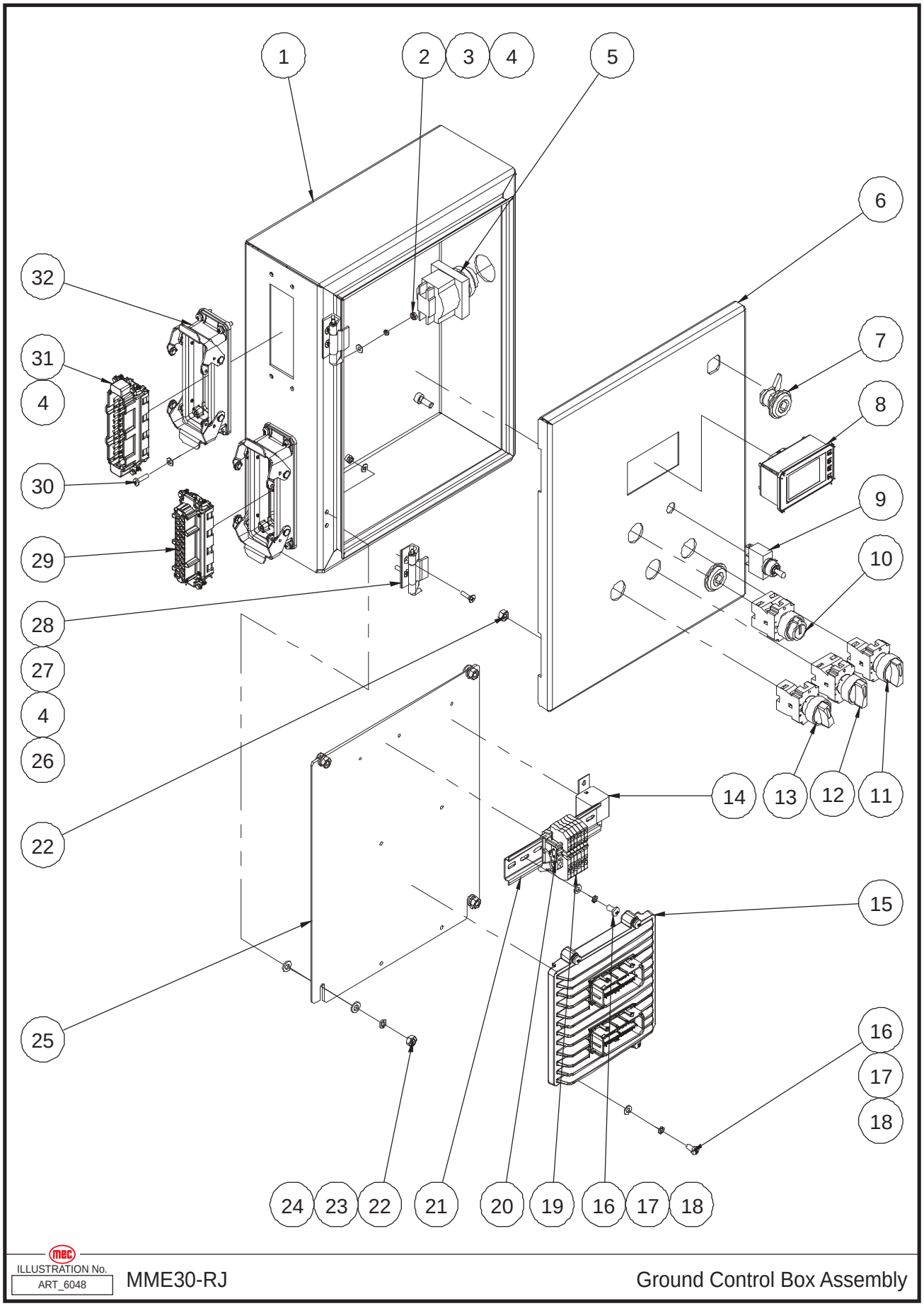


ILLUSTRATION No. ART_6048 MME30-RJ Ground Control Box Assembly

Item	Part Number	Description	Qty.
1	46905	Ground Control Box Weldment	1
2	53157	Nut NHEX M04-0.70 ZP	8
3	53062	WSHR M04 Spring Washer ZP	10
4	50284	WSHR M04 Standard Flat Washer ZP	22
5	46906	Alarm	1
6	46907	Ground Control Box Cover	1
7	42352	Latch, Column	2
8	48554	Display	1
9	46908	Toggle Switch	1
10	46909	Key Switch	1
--	42959	Key Switch Head	1
--	46910	Base with 1 NO Contact	1
--	91574	Key	1
11	46582	Select Switch	1
--	48156	Select Switch Head	1
--	44070	Base with 1 NO Contact	1
12	45874	Select Switch	1
--	45880	Select Switch Head	1
--	46910	Base with 1 NO Contact	1
13	46755	Select Switch	1
--	44069	Select Switch Head	1
--	43097	Base with 1 NC Contact	1
14	41334	Relay	3
15	45881	Controller	1
16	53354	Screw PHMS M05-0.80 × 10 ZP	4
17	53043	WSHR M05 Spring Washer ZP	4
18	53038	WSHR M05 Standard Flat Washer ZP	4
19	42078	End, Straight	6
20	42079	End, Fixation	2
21	46914	Terminal Rail	1
22	53361	Nut NHEX M06-1.00 ZP	6
23	53046	WSHR M06 Spring Washer ZP	4
24	50000	WSHR M06 Standard Flat Washer ZP	8
25	46915	Mounting Plate	1
26	50285	Nut NNYL M04-0.70 ZP	4
27	53465	Screw CSCS M04-0.70 × 16 ZP	4
28	46916	Hinge	2
29	46917	Female Insert	1
30	53520	Screw PHMS M04-0.70 × 16 ZP	8
31	46918	Male Insert	1
32	46919	Housing	2

Battery Trays Installation

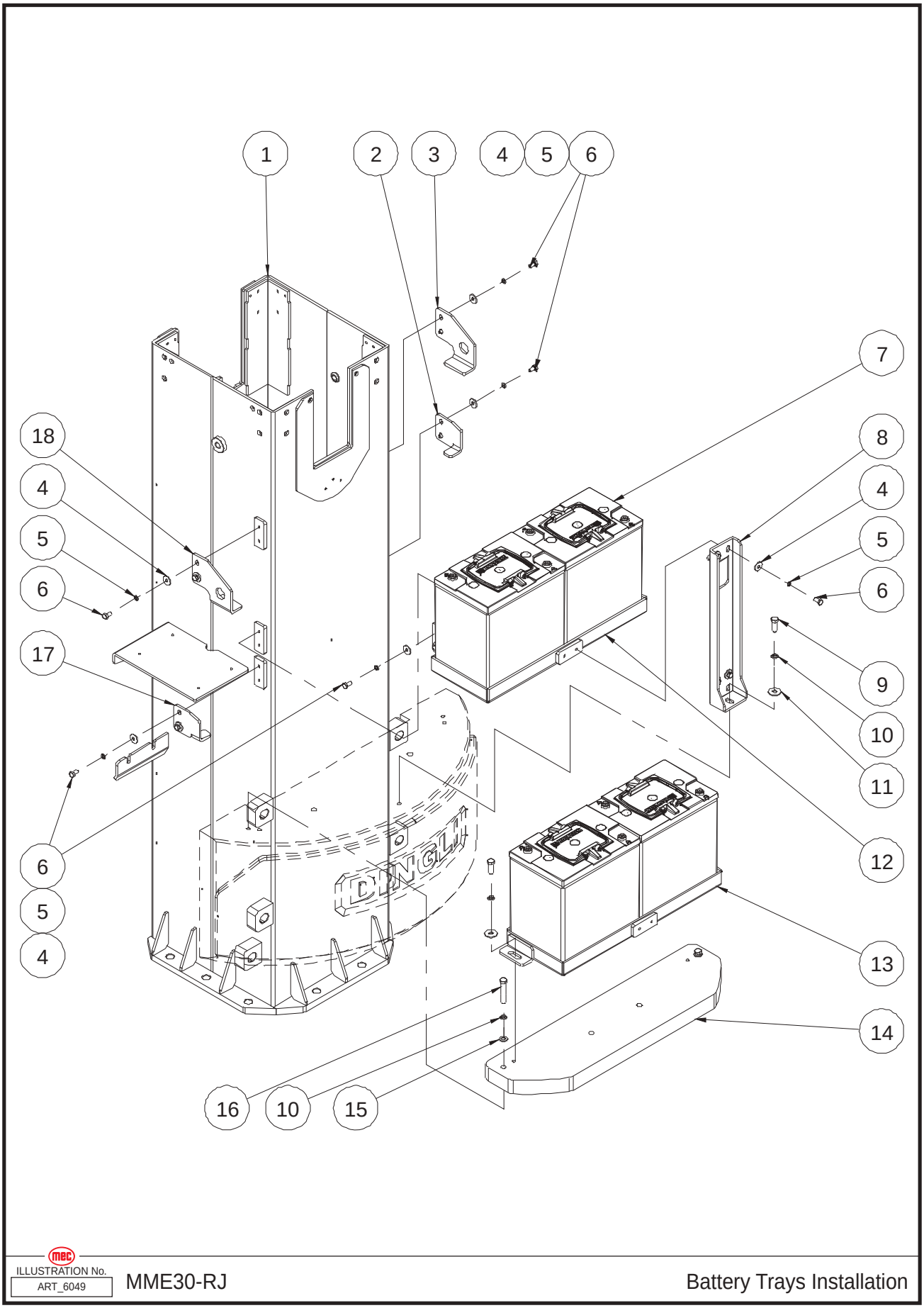


ILLUSTRATION No. ART_6049 MME30-RJ Battery Trays Installation

Item	Part Number	Description	Qty.
1	46920	Mast 1 Weldment	1
2	46921	Press Plate	1
3	46922	Press Plate	1
4	50218	WSHR M08 Flat Fender Washer	16
5	53055	WSHR M08 Spring Washer	16
6	53154	Screw HHCS M08-1.25 × 16	16
7	46368	Battery	4
8	46923	Bracket	1
9	50034	Screw HHCS M10-1.50 × 30	3
10	53054	WSHR M10 Spring Washer	5
11	53375	WSHR M10 Flat Fender Washer	3
12	46924	Top Battery Tray Weldment	1
13	46925	Bottom Battery Tray Weldment	1
14	46926	Counterweight	1
15	50002	WSHR M10 Standard Flat Washer	2
16	50421	Screw HHCS M10-1.50 × 60	2
17	46927	Press Plate	1
18	46928	Press Plate	1

Mast Assembly

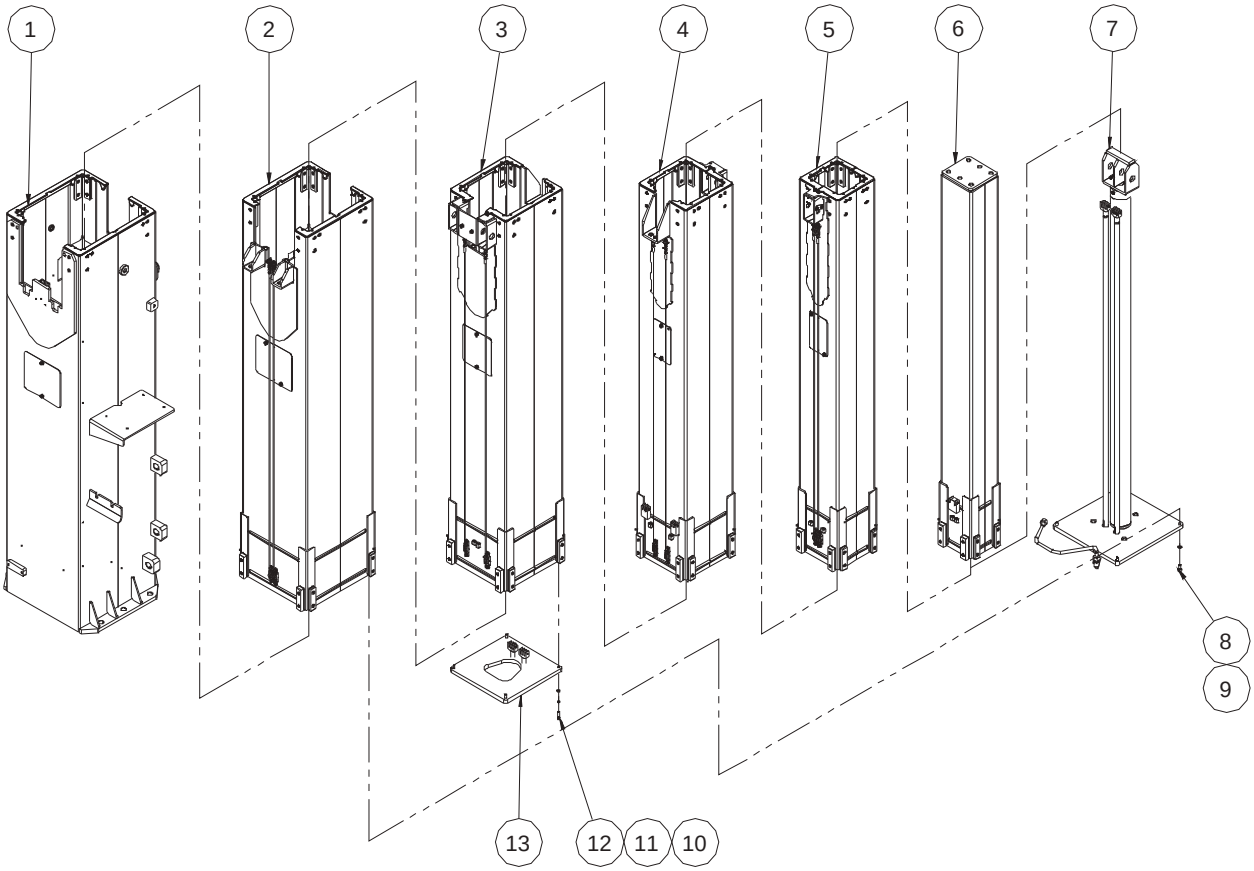


ILLUSTRATION No. ART_6050 MME30-RJ Mast Assembly

Item	Part Number	Description	Qty.
1	REF	Mast 1 Assembly (Refer to page 77)	1
2	REF	Mast 2 Assembly (Refer to page 79)	1
3	REF	Mast 3 Assembly (Refer to page 83)	1
4	REF	Mast 4 Assembly (Refer to page 85)	1
5	REF	Mast 5 Assembly (Refer to page 87)	1
6	REF	Mast 6 Assembly (Refer to page 89)	1
7	REF	Lift Cylinder Assembly (Refer to page 119)	1
8	53177	Screw SHCS M08-1.25 × 20	4
9	53055	WSHR M08 Spring Washer	4
10	50000	WSHR M06 Standard Flat Washer	4
11	53046	WSHR M06 Spring Washer	4
12	53123	Screw SHCS M06-1.00 × 25	4
13	46929	Soleplate Weldment	1

REF - Reference

Mast 1 Assembly

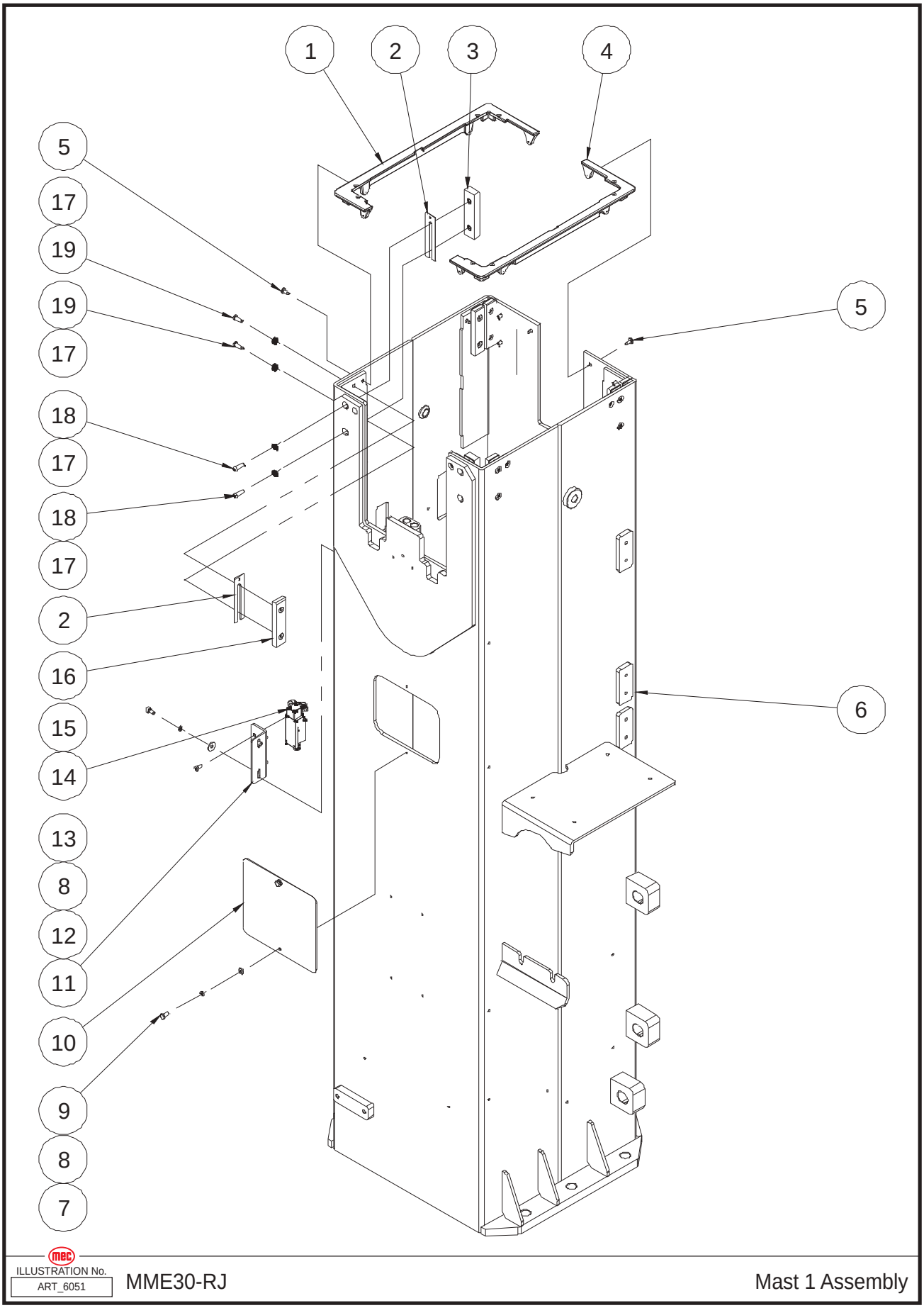


ILLUSTRATION No. ART_6051 MME30-RJ Mast 1 Assembly

Item	Part Number	Description	Qty.
1	46930	Mast Cover	1
2	44717	Adjusting Plate	8
3	46931	Slide Block	2
4	46932	Mast Cover	1
5	53521	Cross Recessed PHTS M5.5-11 × 13	8
6	46920	Mast 1 Weldment	1
7	50000	WSHR M06 Standard Flat Washer	2
8	53046	WSHR M06 Spring Washer	4
9	53104	Screw HHCS M06-1.00 × 12	2
10	46933	Plate	1
11	46934	Switch Bracket	1
12	50068	WSHR M06 Flat Fender Washer	2
13	53380	Screw SHCS M06-1.00 × 12	2
14	42074	Limit Switch, Jib	1
15	53378	Screw PHMS M05-0.80 × 12	4
16	44718	Slide Block	6
17	53522	WSHR M06 Wedge Lock Washer	16
18	50375	Screw BHCS M06-1.00 × 30	4
19	53448	Screw BHCS M06-1.00 × 16	12

Mast 2 Assembly

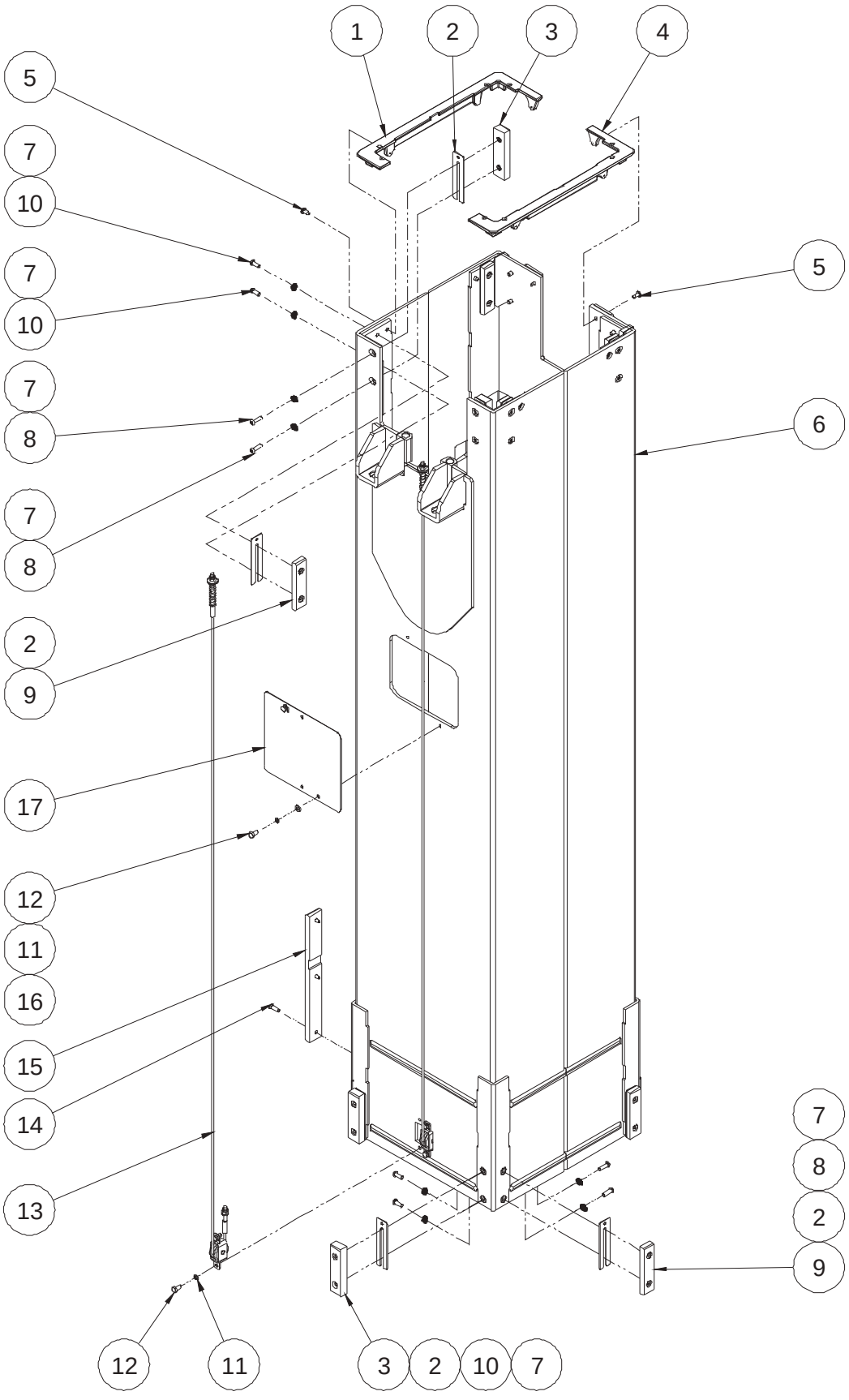


ILLUSTRATION No. ART_6052 MME30-RJ Mast 2 Assembly

Item	Part Number	Description	Qty.
1	46935	Mast Cover	1
2	44717	Adjusting Plate	16
3	46931	Slide Block	4
4	46936	Mast Cover	1
5	53521	Cross Recessed PHTS M5.5-11 × 13	6
6	46937	Mast 2 Weldment	1
7	53522	WSHR M06 Wedge Lock Washer	32
8	53421	Screw BHCS M06-1.00 × 20	8
9	44718	Slide Block	12
10	53448	Screw BHCS M06-1.00 × 16	24
11	53046	WSHR M06 Spring Washer	6
12	53104	Screw HHCS M06-1.00 × 12	6
13	REF	Wire Rope Assembly (Refer to page 81)	2
14	53118	Screw CSCS M05-0.80 × 20	3
15	46938	Signal Plate	1
16	50000	WSHR M06 Standard Flat Washer	4
17	46939	Plate	1

REF - Reference

Wire Rope Assembly

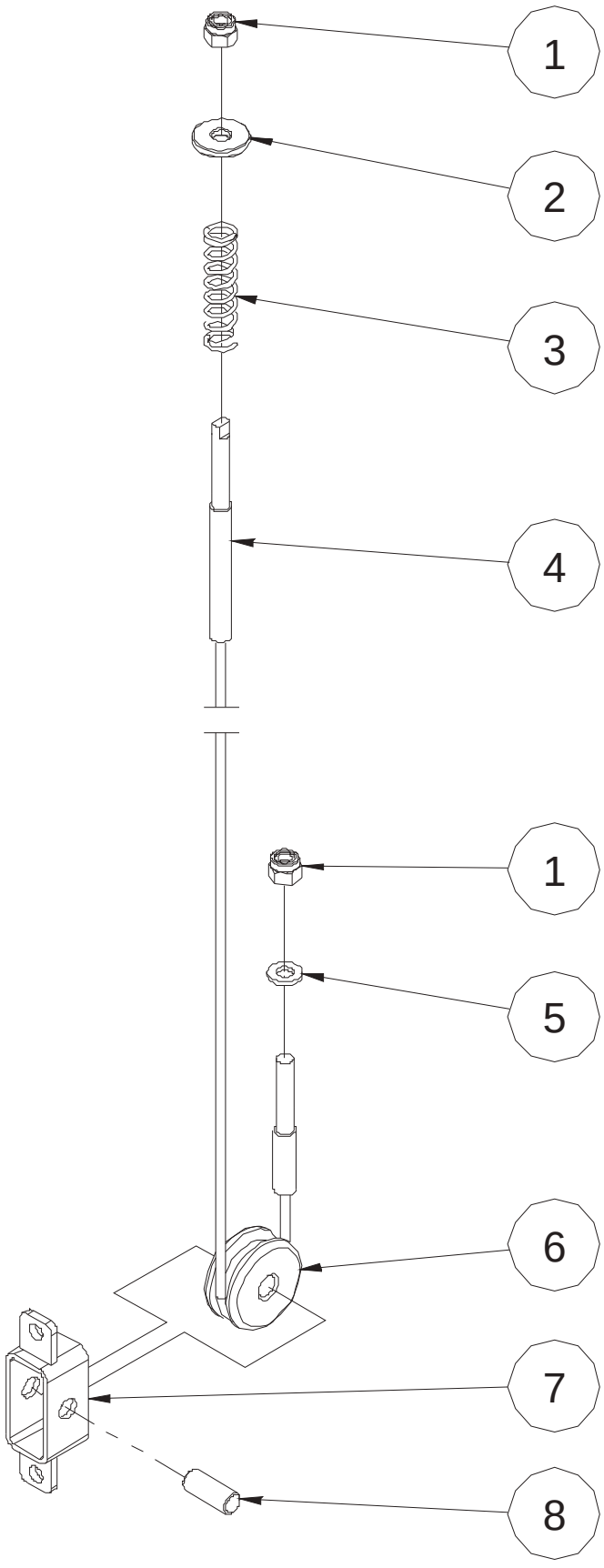


ILLUSTRATION No. ART_6053 MME30-RJ Wire Rope Assembly

Item	Part Number	Description	Qty.
1	50047	Nut NNYL M06-1.00	2
2	46940	Washer	1
3	44411	Spring	1
4	46941	Wire Rope	1
5	50000	WSHR M06 Standard Flat Washer	1
6	46942	Pulley	1
7	46943	Pulley Bracket	1
8	46944	Pin	1

Mast 3 Assembly

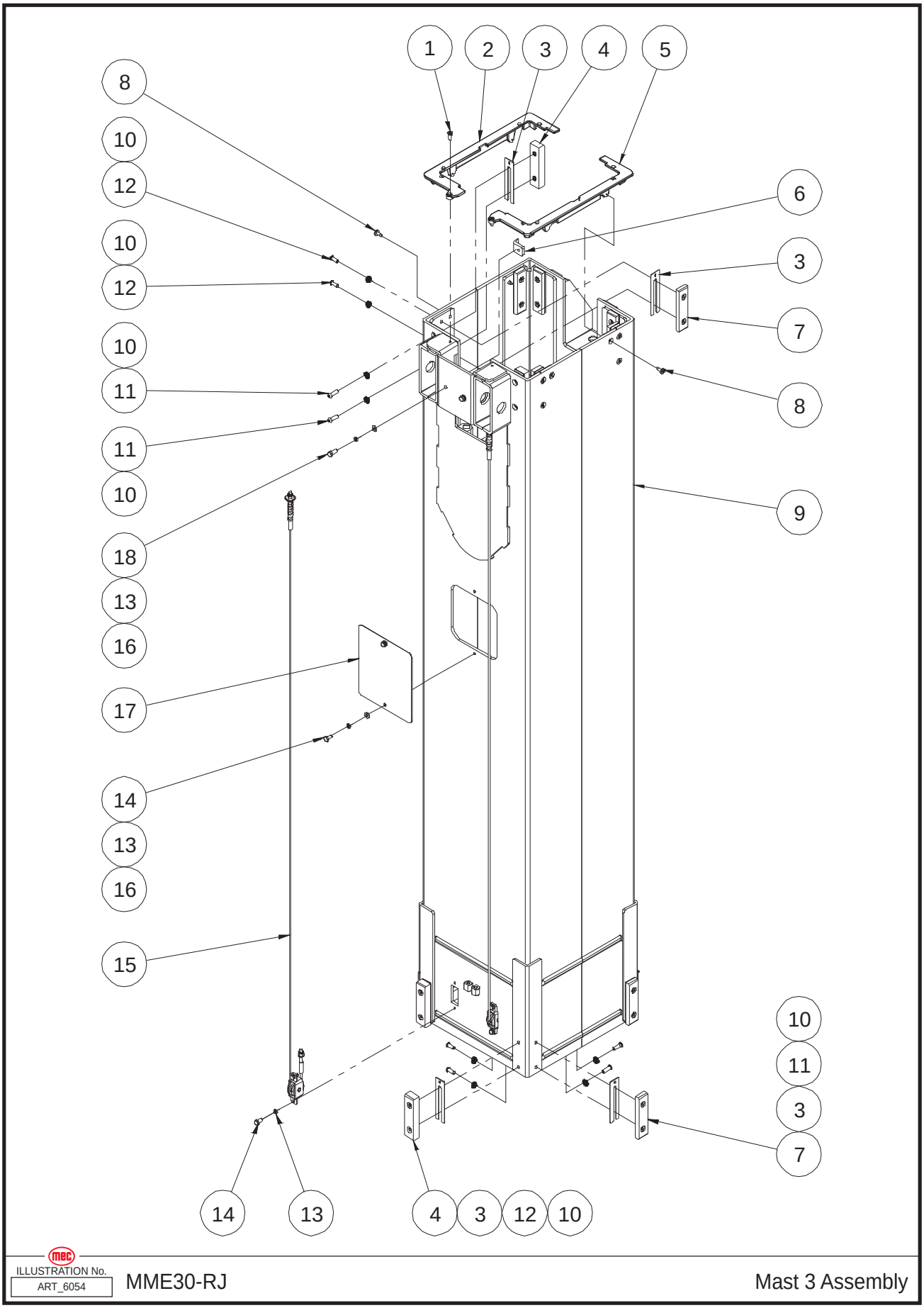


ILLUSTRATION No. ART_6054 MME30-RJ Mast 3 Assembly

Item	Part Number	Description	Qty.
1	53269	Screw CSCS M05-0.80 × 16	2
2	46945	Mast Cover	1
3	44717	Adjusting Plate	16
4	46931	Slide Block	4
5	46946	Mast Cover	1
6	46947	Press Plate	2
7	44718	Slide Block	12
8	53521	Cross Recessed PHTS M5.5-11 × 13	4
9	46948	Mast 3 Weldment	1
10	53522	WSHR M06 Wedge Lock Washer	33
11	53421	Screw BHCS M06-1.00 × 20	8
12	53448	Screw BHCS M06-1.00 × 16	25
13	53046	WSHR M06 Spring Washer	8
14	53104	Screw HHCS M06-1.00 × 12	6
15	REF	Wire Rope Assembly (Refer to page 81)	2
16	50000	WSHR M06 Standard Flat Washer	6
17	46949	Plate	1
18	50445	Screw HHCS M06-1.00 × 16	2

REF - Reference

Mast 4 Assembly

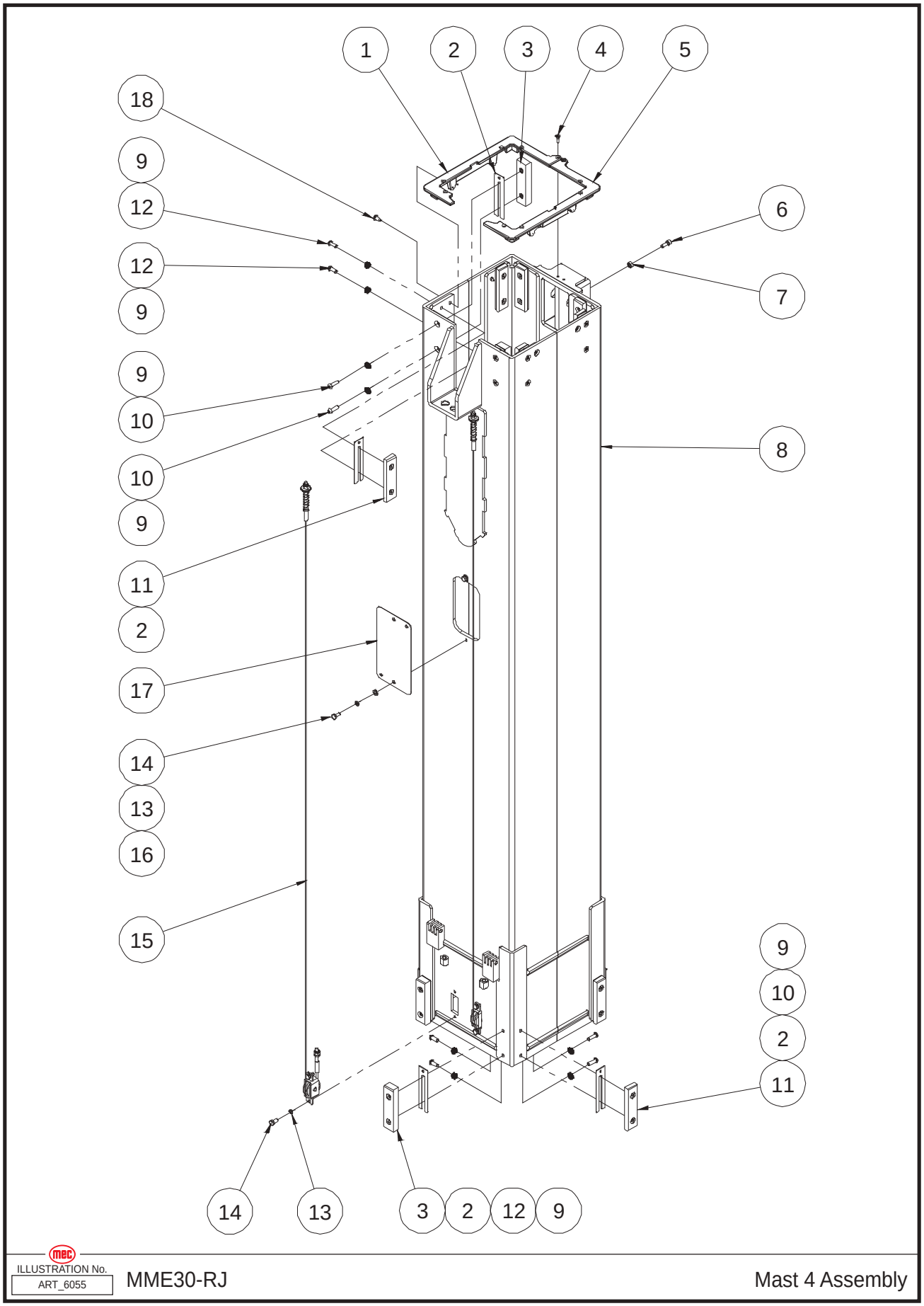


ILLUSTRATION No. ART_6055 MME30-RJ Mast 4 Assembly

Item	Part Number	Description	Qty.
1	46950	Mast Cover	1
2	44717	Adjusting Plate	16
3	46931	Slide Block	4
4	53269	Screw CSCS M05-0.80 × 16	2
5	46951	Mast Cover	1
6	53138	Screw SHCS M06-1.00 × 16	1
7	53361	Nut NHEX M06-1.00	1
8	46952	Mast 5 Weldment	1
9	53522	WSHR M06 Wedge Lock Washer	32
10	53421	Screw BHCS M06-1.00 × 20	8
11	44718	Slide Block	12
12	53448	Screw BHCS M06-1.00 × 16	24
13	53046	WSHR M06 Spring Washer	6
14	53104	Screw HHCS M06-1.00 × 12	6
15	REF	Wire Rope Assembly (Refer to page 81)	2
16	50000	WSHR M06 Standard Flat Washer	4
17	46953	Plate	1
18	53521	Cross Recessed PHTS M5.5-11 × 13	4

REF - Reference

Mast 5 Assembly

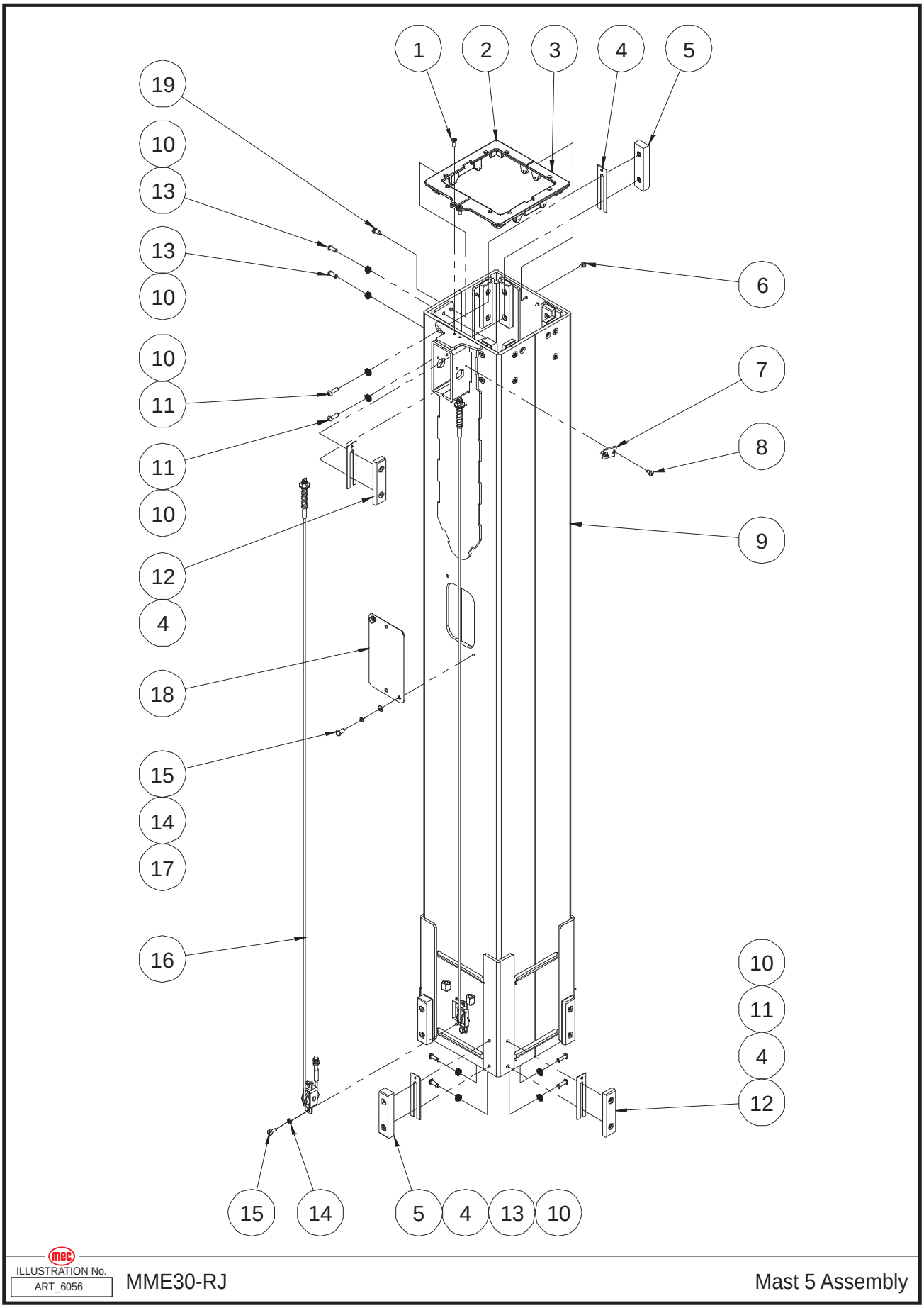


ILLUSTRATION No. ART_6056 MME30-RJ Mast 5 Assembly

Item	Part Number	Description	Qty.
1	53269	Screw CSCS M05-0.80 × 16	2
2	46954	Mast Cover	1
3	46955	Mast Cover	1
4	44717	Adjusting Plate	16
5	46931	Slide Block	4
6	53523	Cross Recessed CSTP M5.5-10.3 × 13	2
7	46956	Lock Plate	1
8	53222	Screw PHMS M05-0.80 × 8	2
9	46957	Mast 5 Weldment	1
10	53522	WSHR M06 Wedge Lock Washer	32
11	53421	Screw BHCS M06-1.00 × 20	8
12	44718	Slide Block	12
13	53448	Screw BHCS M06-1.00 × 16	24
14	53046	WSHR M06 Spring Washer	6
15	53104	Screw HHCS M06-1.00 × 12	6
16	REF	Wire Rope Assembly (Refer to page 81)	2
17	50000	WSHR M06 Standard Flat Washer	4
18	46953	Plate	1
19	53521	Cross Recessed PHTS M5.5-11 × 13	4

REF - Reference

Mast 6 Assembly

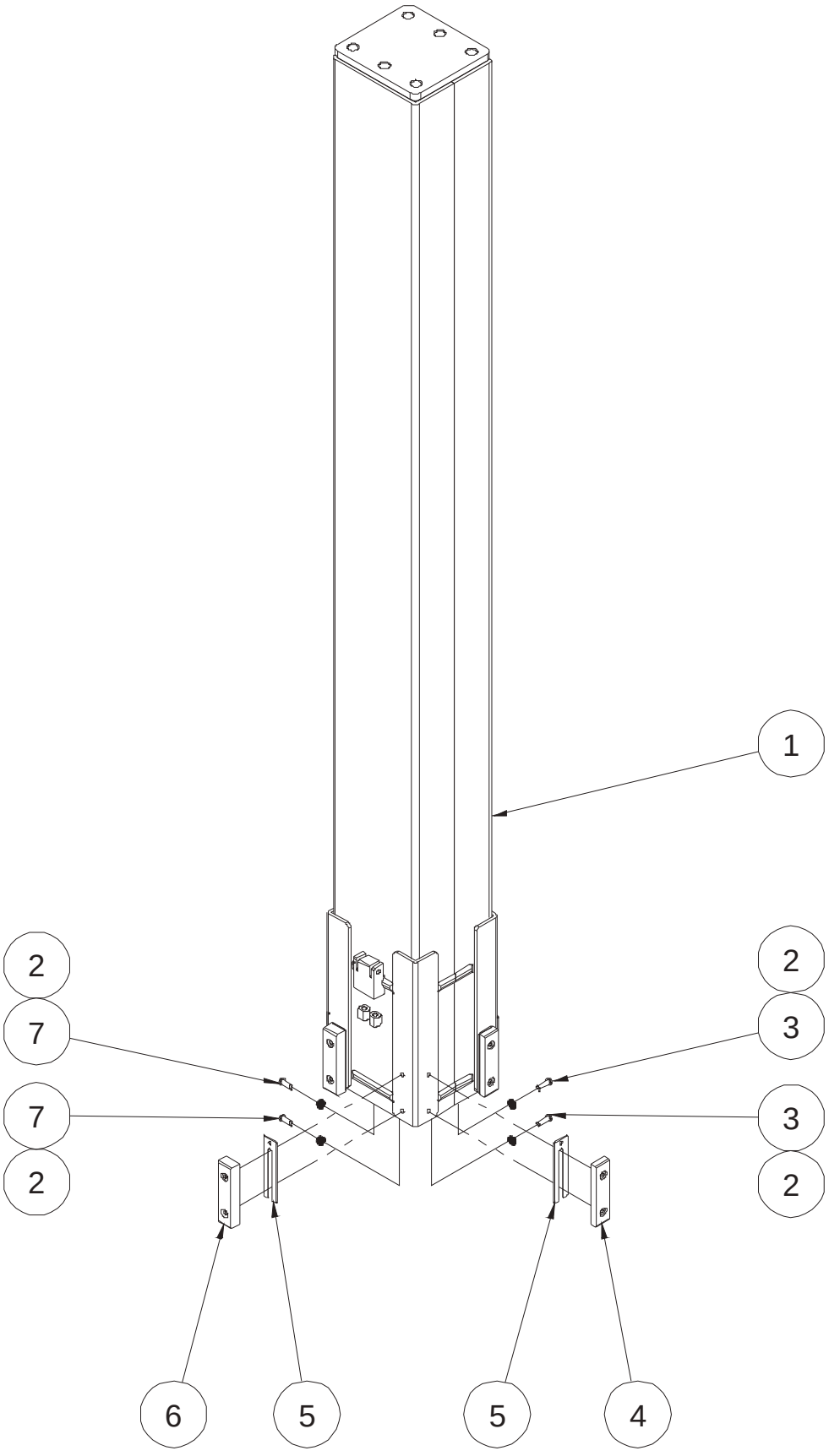


ILLUSTRATION No. ART_6057 MME30-RJ Mast 6 Assembly

Item	Part Number	Description	Qty.
1	46958	Mast 6 Weldment	1
2	53522	WSHR M06 Wedge Lock Washer	16
3	53421	Screw BHCS M06-1.00 × 20	4
4	44718	Slide Block	6
5	44717	Adjusting Plate	8
6	46931	Slide Block	2
7	53448	Screw BHCS M06-1.00 × 16	12

Lifting Chain Assembly

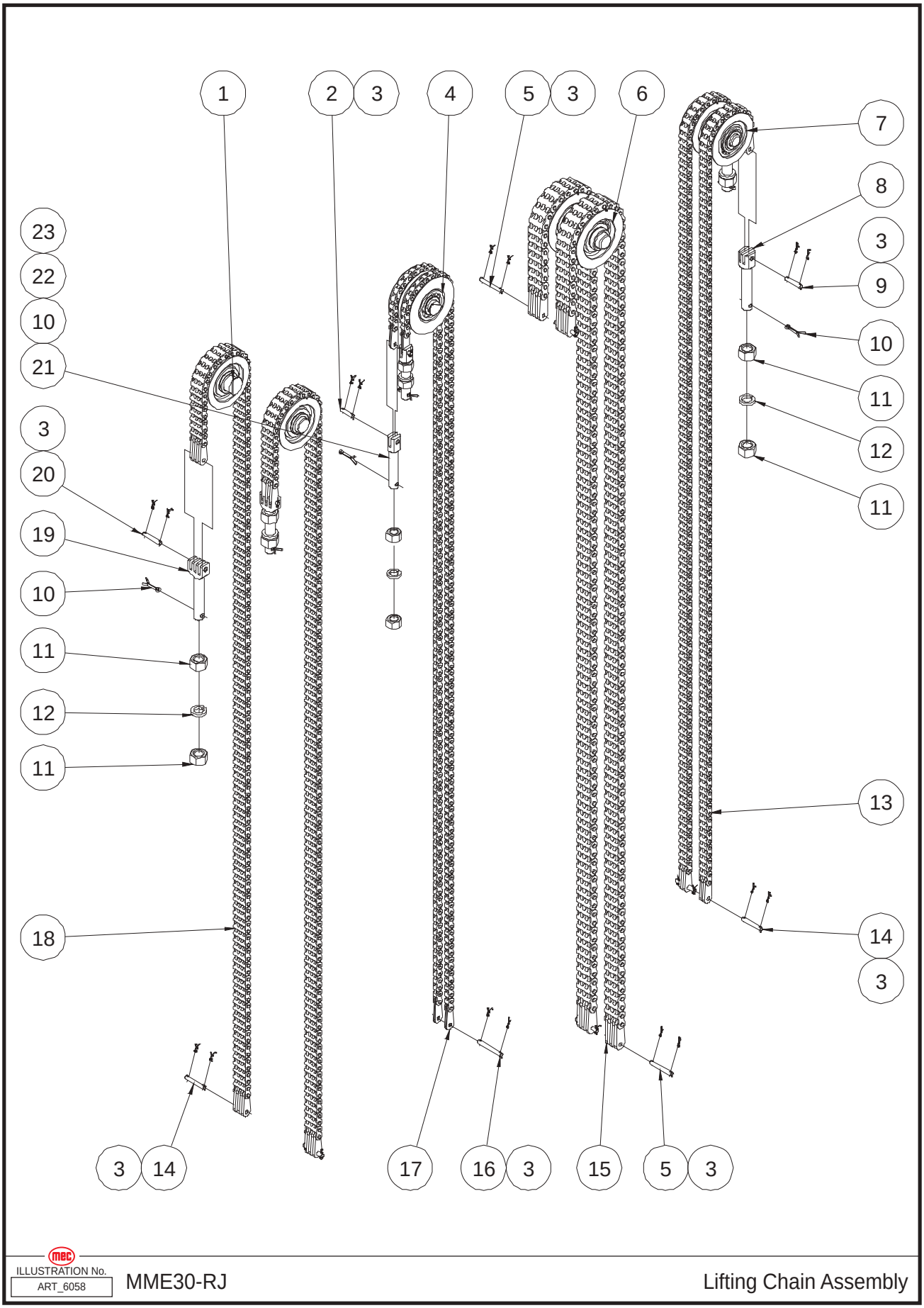


ILLUSTRATION No. ART_6058 MME30-RJ Lifting Chain Assembly

Item	Part Number	Description	Qty.
1	REF	(2-4) Mast Pulley Assembly (Refer to page 93 or page 95)	2
2	46959	Pin	2
3	46960	Cotter Pin	30
4	REF	(4-6) Mast Pulley Assembly (Refer to page 97 or page 99)	1
5	46961	Pin	4
6	REF	(1-3) Mast Pulley Assembly (Refer to page 101)	1
7	REF	(3-5) Mast Pulley Assembly (Refer to page 105)	1
8	46962	Chain Terminal	2
9	46963	Pin	2
10	46964	Cotter Pin	6
11	53524	Nut NHEX M16-2.00	8
12	53149	WSHR M16 Spring Washer	4
13	46965	Chain, (3-5) Mast	2
14	46966	Pin	4
15	46967	Chain, (1-3) Mast	2
16	46968	Pin	1
17	46969	Chain, (4-6) Mast	2
18	46970	Chain, (2-4) Mast	2
19	46971	Chain Terminal	2
20	46972	Pin	2
21	46973	Chain Terminal	2
22	53510	Nut NHEX M14-2.00	4
23	53048	WSHR M14 Spring Washer	2

REF - Reference

(2-4) Mast Pulley Assembly, Old Style

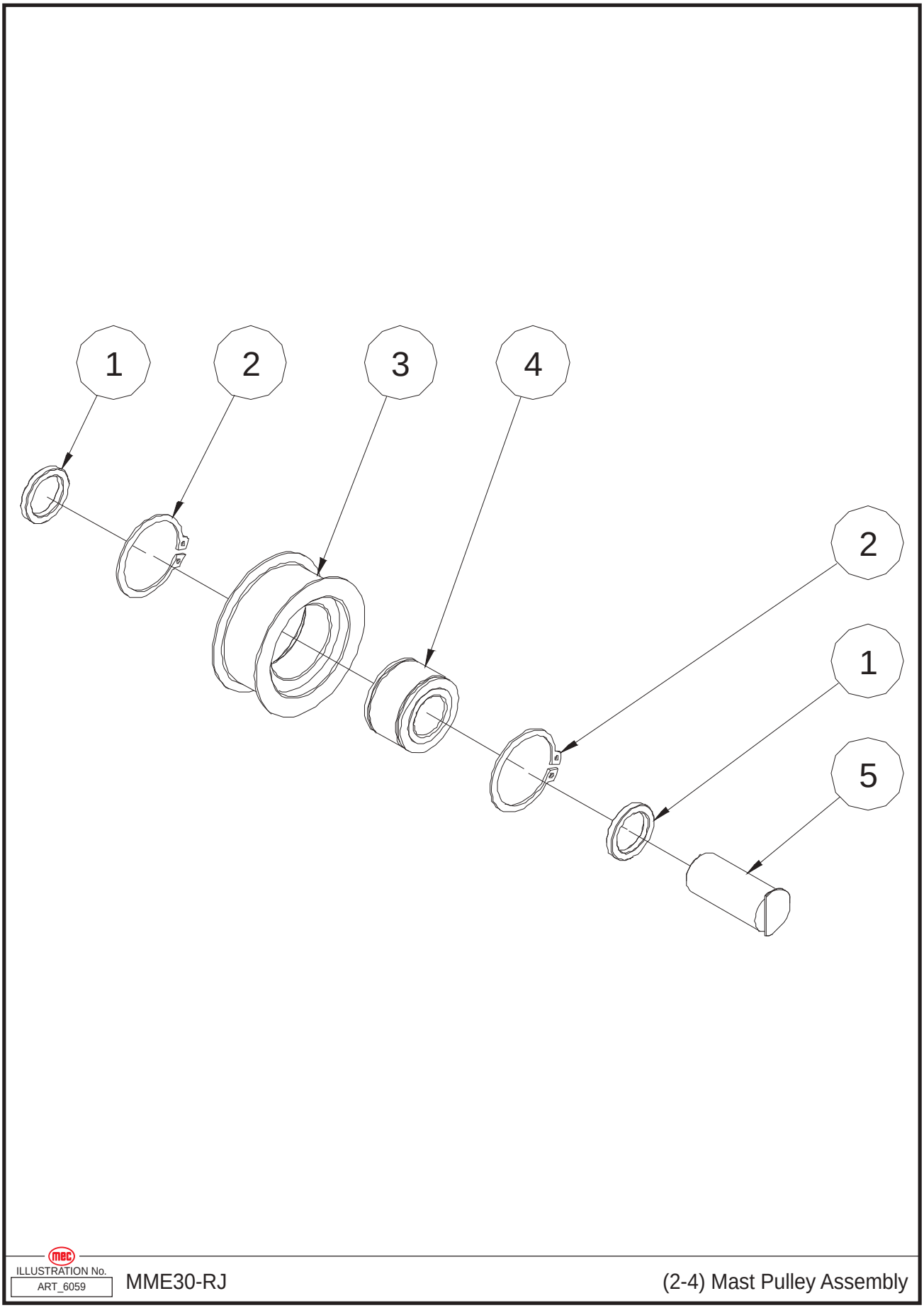


ILLUSTRATION No. ART_6059 MME30-RJ (2-4) Mast Pulley Assembly

Item	Part Number	Description	Qty.
1	46974	Washer	2
2	46975	Circlips	2
3	46976	Pulley	1
4	46977	Bearing	1
5	46978	Pin	1

(2-4) Mast Pulley Assembly, New Style

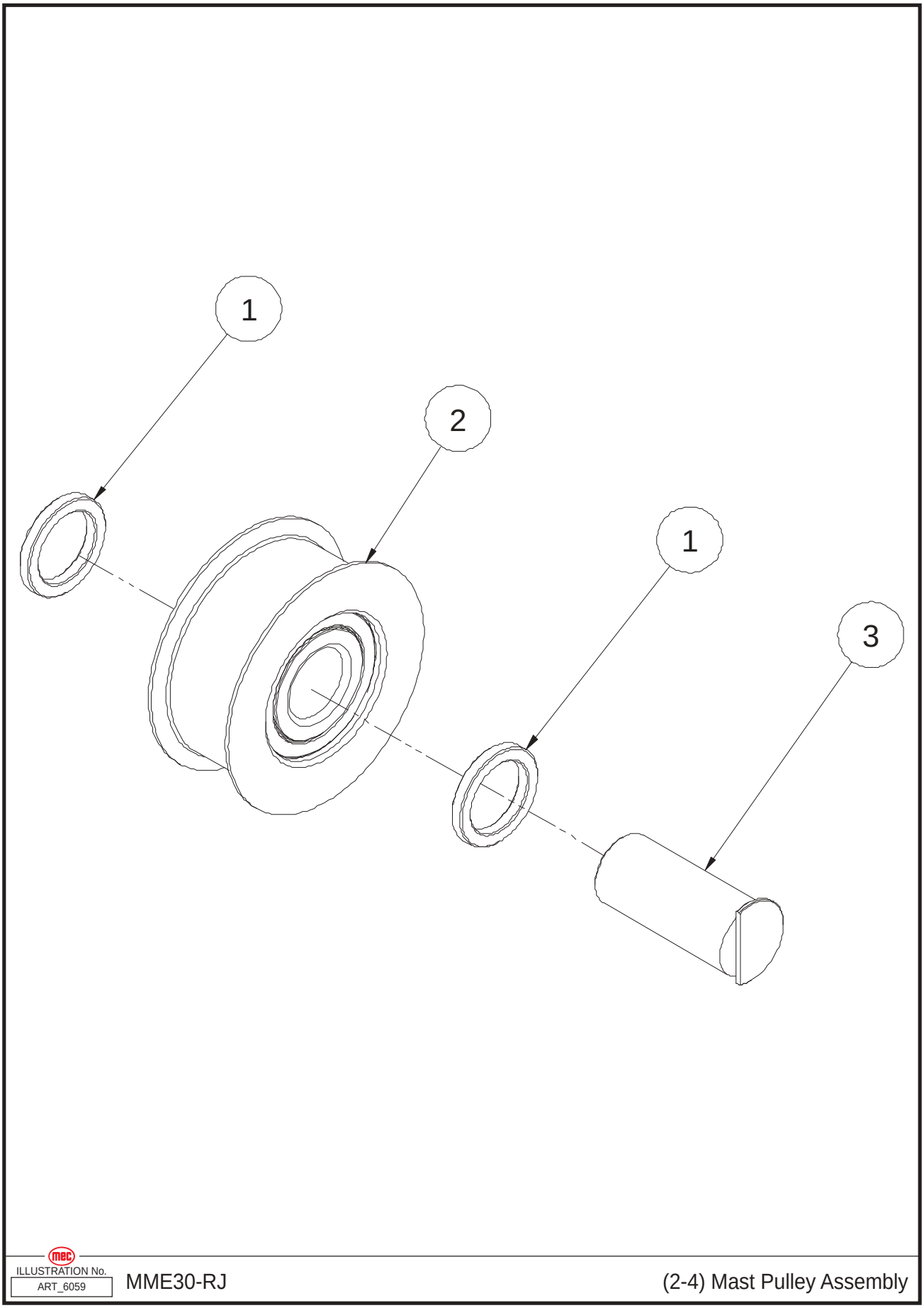


ILLUSTRATION No. ART_6059 MME30-RJ (2-4) Mast Pulley Assembly

Item	Part Number	Description	Qty.
1	46974	Washer	2
2	45893	Pulley	1
3	46978	Pin	1

(4-6) Mast Pulley Assembly, Old Style

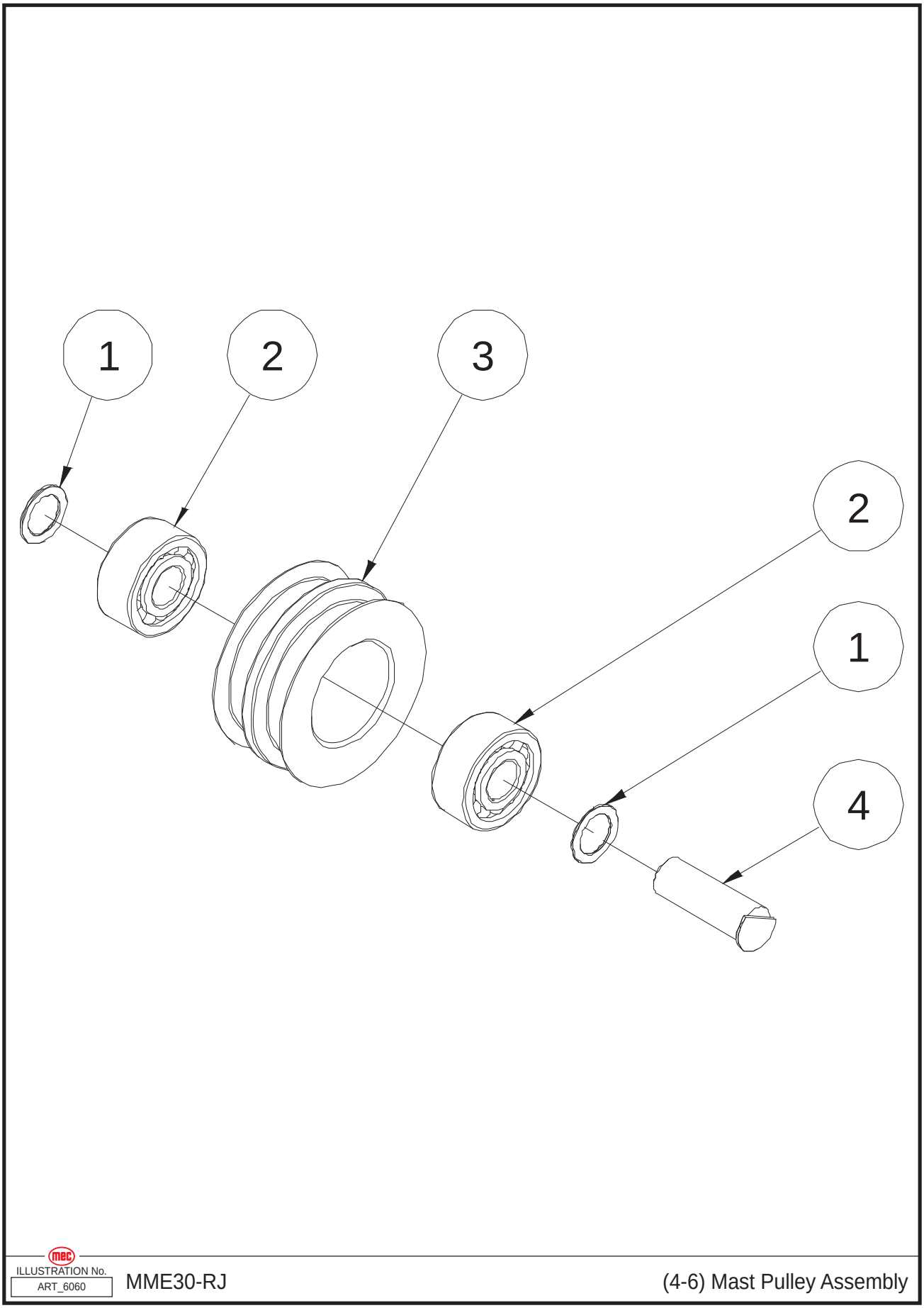
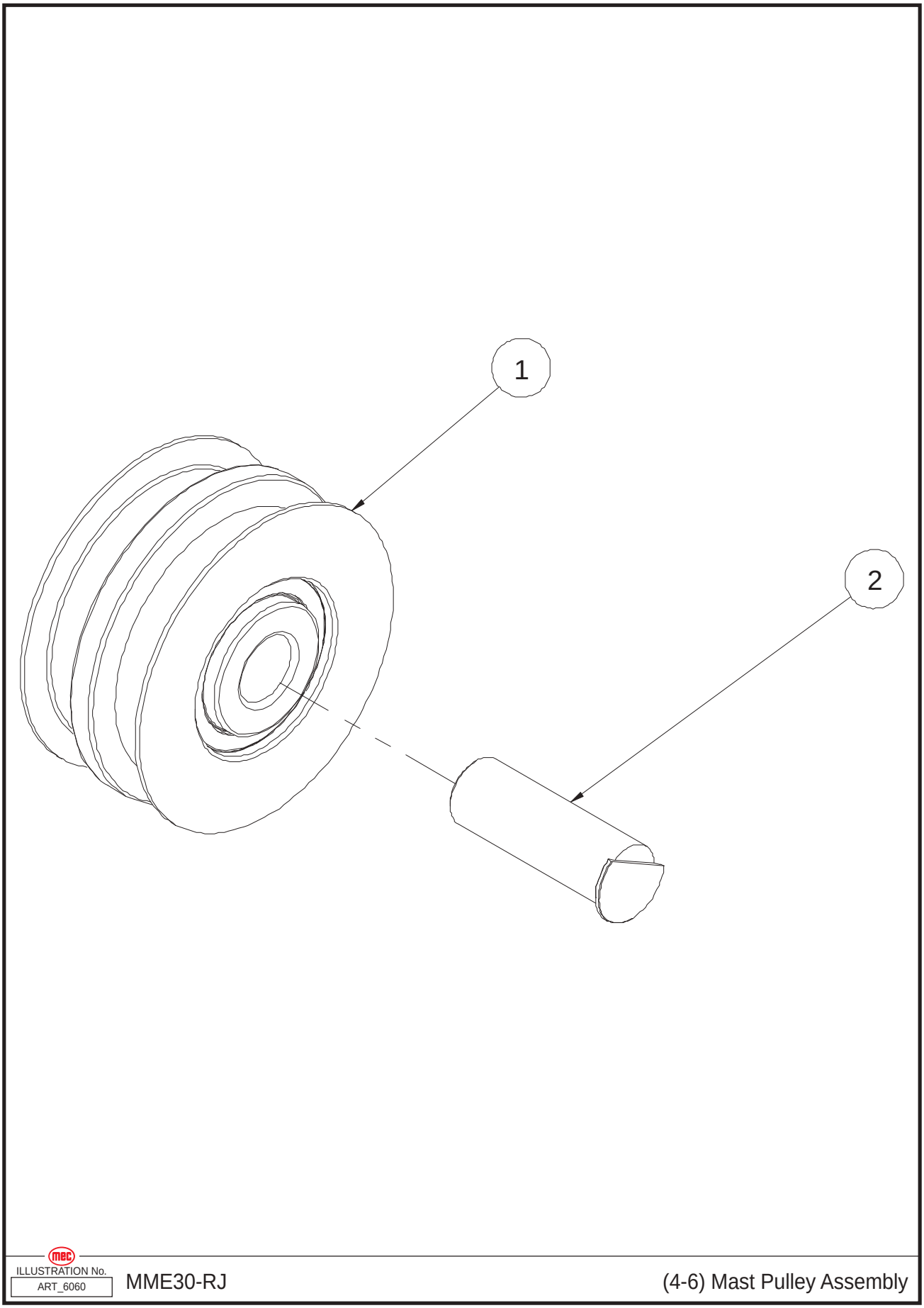


ILLUSTRATION No. ART_6060 MME30-RJ (4-6) Mast Pulley Assembly

Item	Part Number	Description	Qty.
1	46979	Washer	2
2	46980	Bearing	2
3	46981	Pulley	1
4	46982	Pin	1

(4-6) Mast Pulley Assembly, New Style



Item	Part Number	Description	Qty.
1	45894	Pulley	1
2	46982	Pin	1

(1-3) Mast Pulley Assembly, Old Style

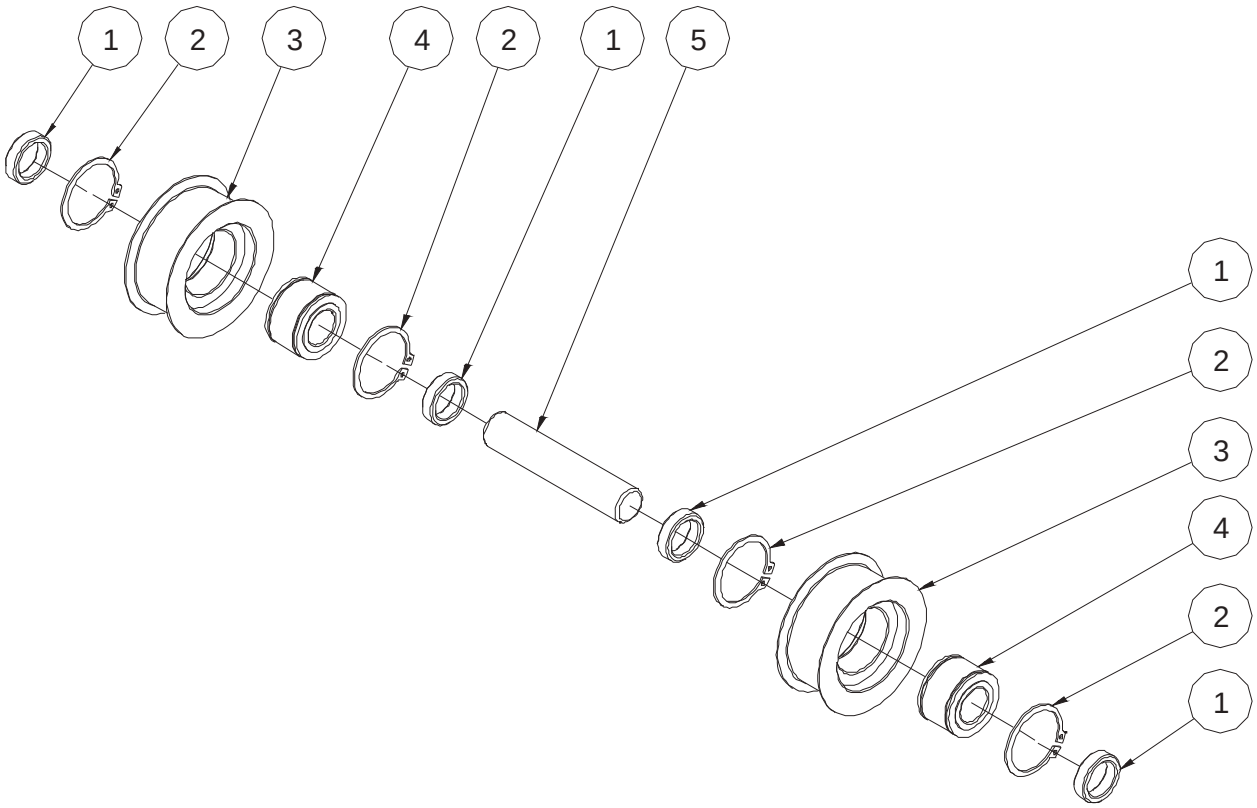


ILLUSTRATION No. ART_6061 MME30-RJ (1-3) Mast Pulley Assembly

Item	Part Number	Description	Qty.
1	46983	Washer	4
2	46975	Circlips	4
3	46984	Pulley	2
4	46977	Bearing	2
5	46985	Pin	1

(1-3) Mast Pulley Assembly, New Style

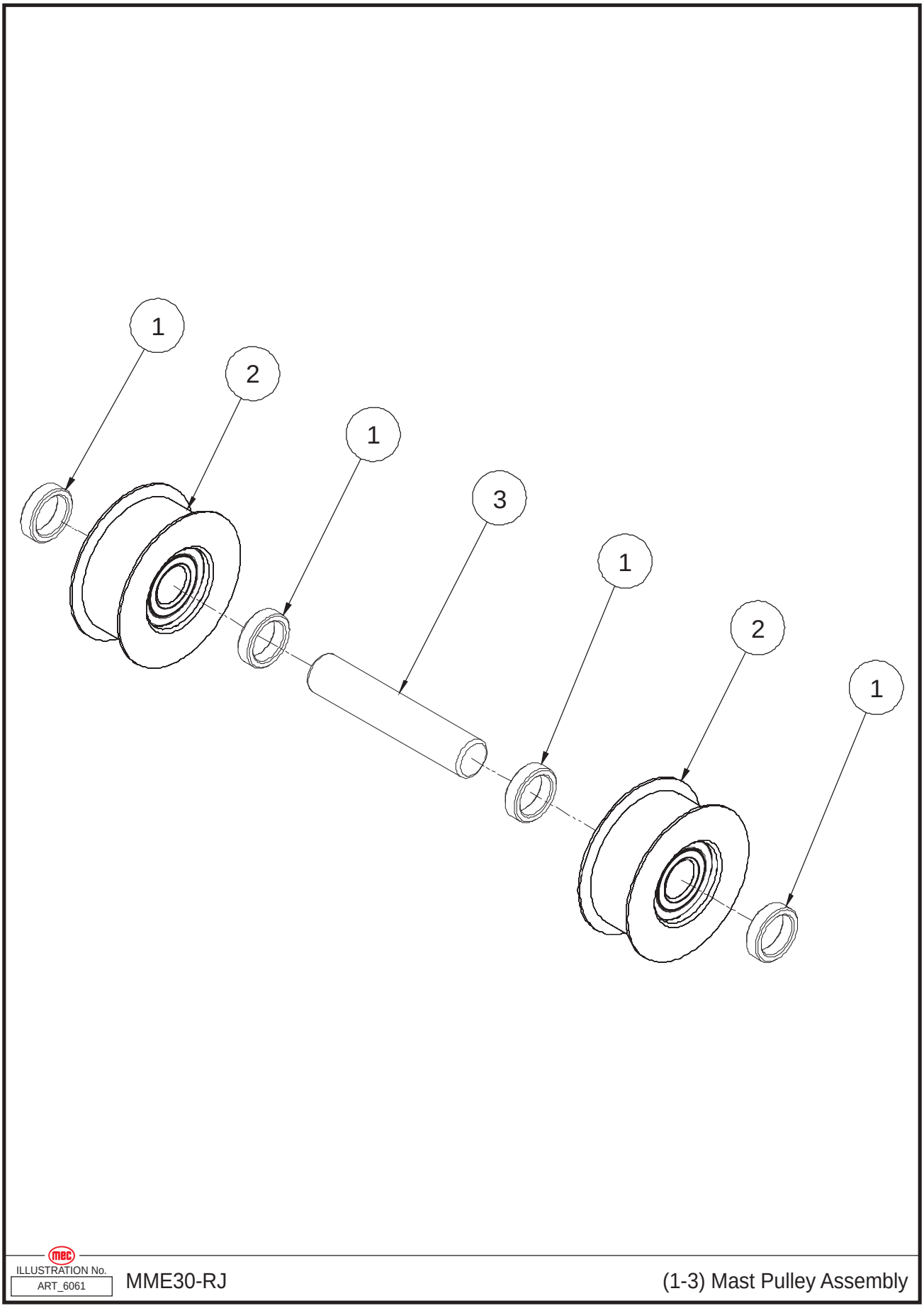


ILLUSTRATION No. ART_6061 MME30-RJ (1-3) Mast Pulley Assembly

Item	Part Number	Description	Qty.
1	46983	Washer	4
2	45895	Pulley	2
3	46985	Pin	1

(3-5) Mast Pulley Assembly, Old Style

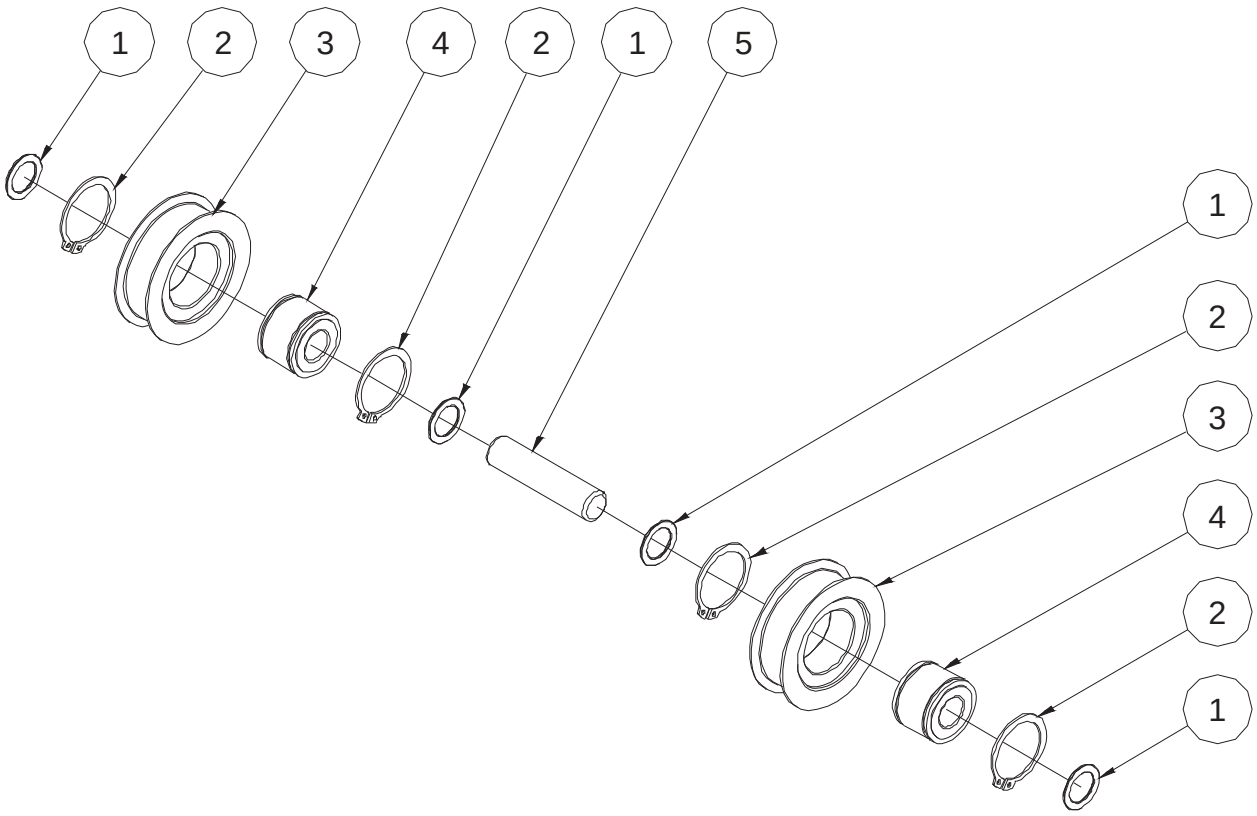


ILLUSTRATION No. ART_6062 MME30-RJ (3-5) Mast Pulley Assembly

Item	Part Number	Description	Qty.
1	46979	Washer	4
2	46986	Circlips	4
3	46987	Pulley	2
4	46988	Bearing	2
5	46989	Pin	1

(3-5) Mast Pulley Assembly, New Style

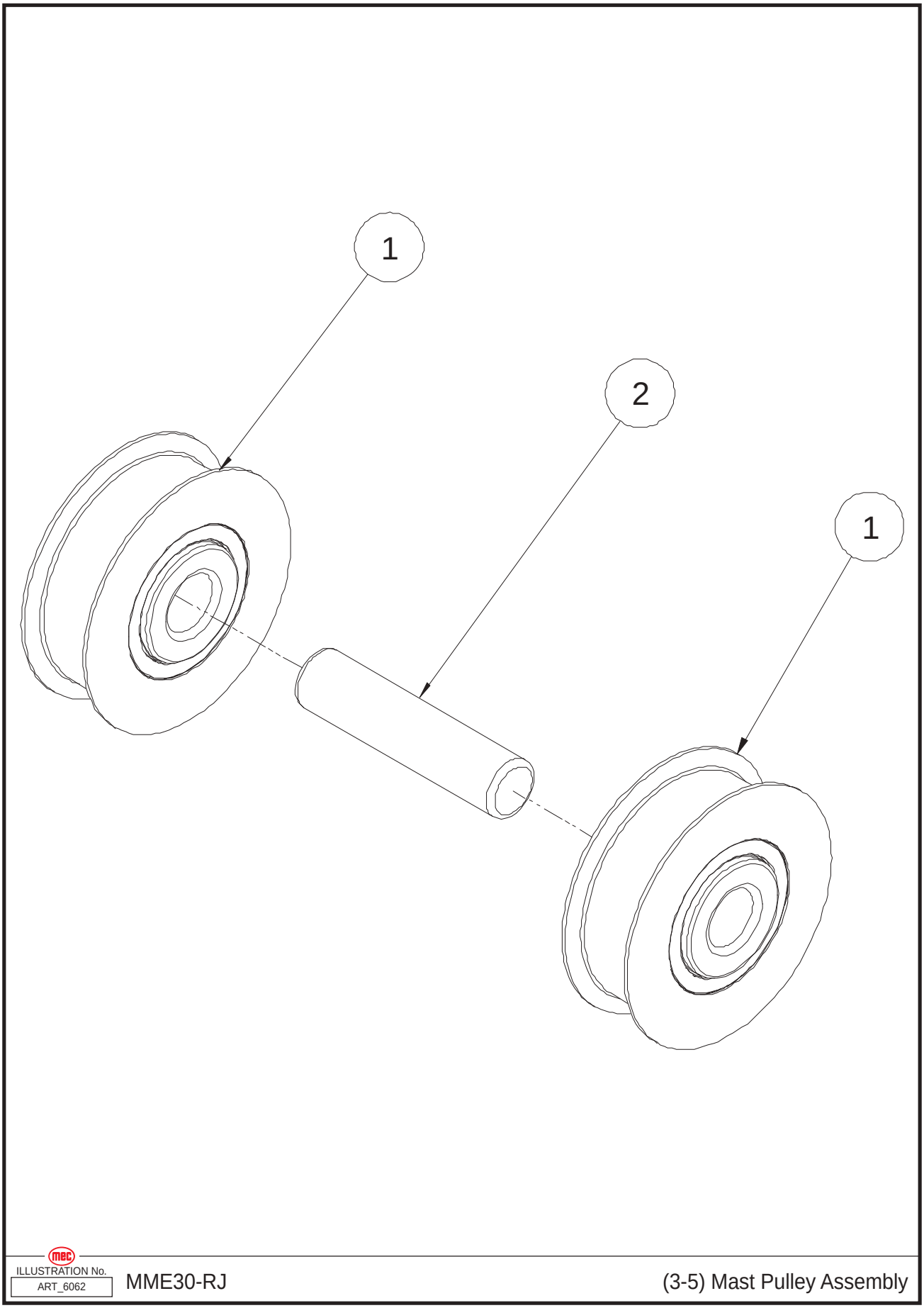


ILLUSTRATION No. ART_6062 MME30-RJ (3-5) Mast Pulley Assembly

Item	Part Number	Description	Qty.
1	45896	Pulley	2
2	46989	Pin	1

Platform and Mast Installation

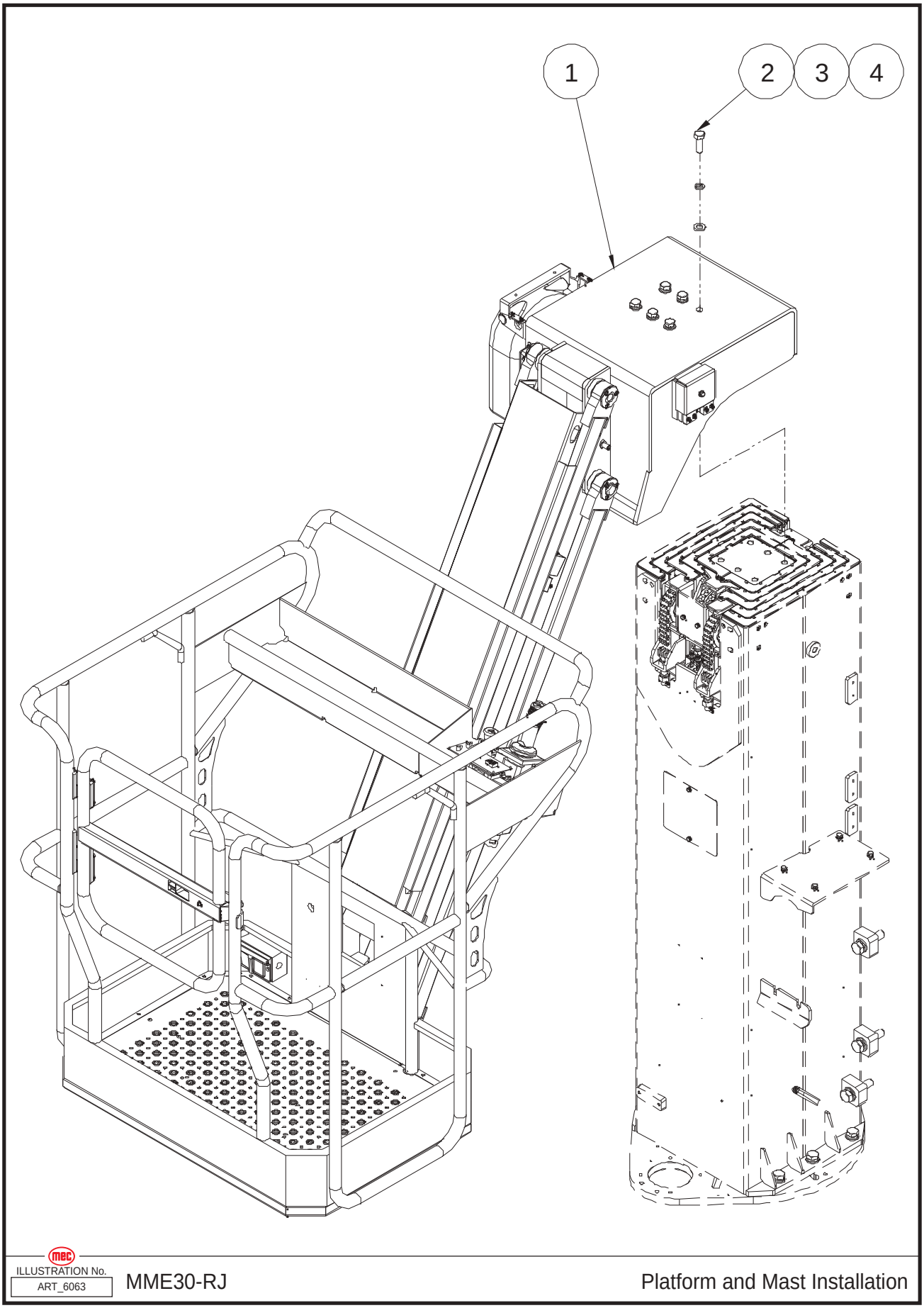


ILLUSTRATION No. ART_6063 MME30-RJ Platform and Mast Installation

Item	Part Number	Description	Qty.
1	REF	Platform and Jib Assembly (Refer to page 111)	1
2	53525	Screw HHCS M16-1.50 × 45	6
3	53149	WSHR M16 Spring Washer	6
4	50004	WSHR M16 Standard Flat Washer	6

REF - Reference

Platform and Jib Assembly

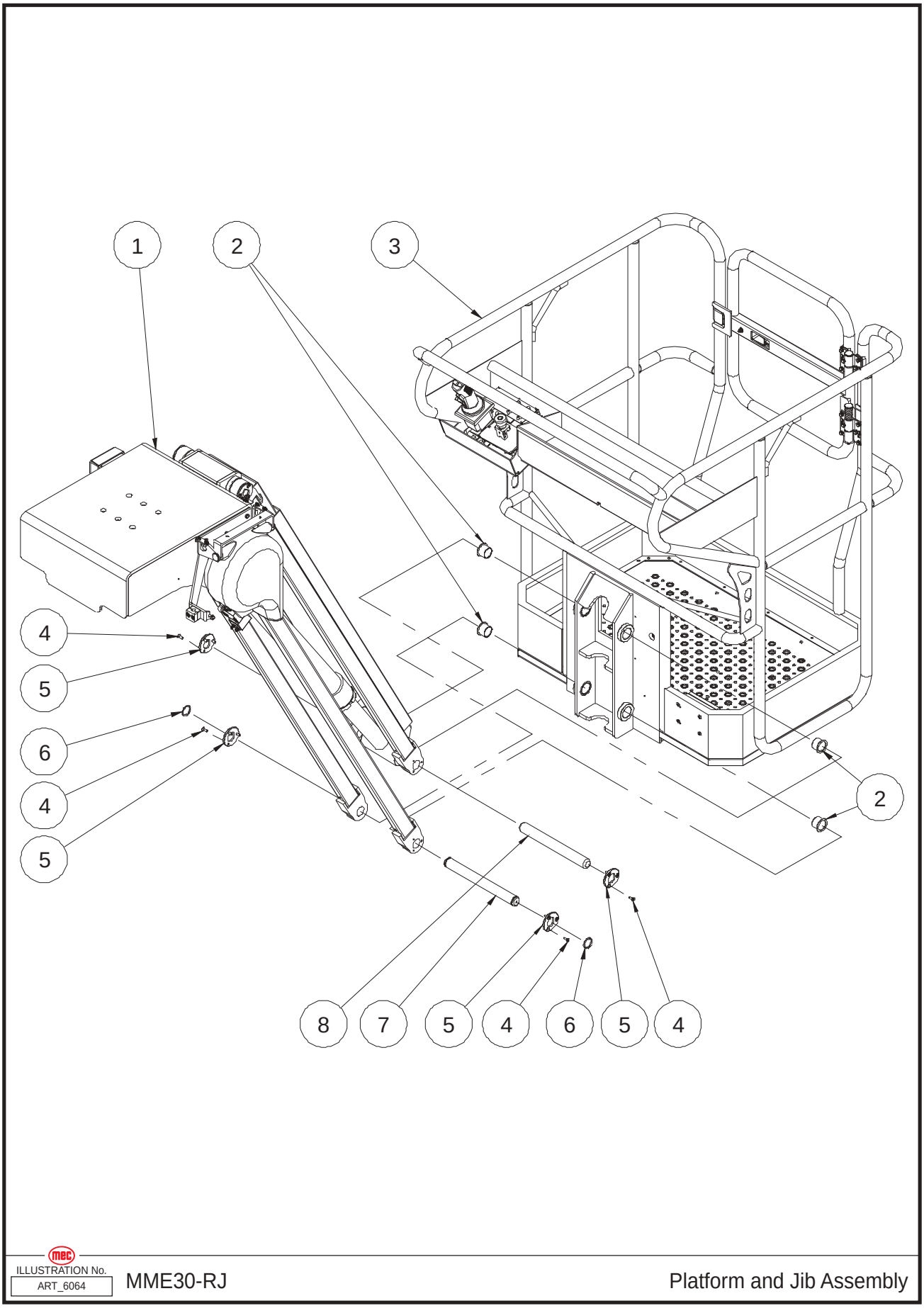


ILLUSTRATION No. ART_6064 MME30-RJ Platform and Jib Assembly

Item	Part Number	Description	Qty.
1	REF	Jib Assembly (Refer to page 113)	1
2	46990	Bearing	8
3	REF	Platform Assembly (Refer to page 115)	1
4	53226	Screw CSCS M06-1.00 × 16	24
5	46991	Pin Fixing Plate	7
6	46992	Circlips	4
7	46993	Pin	2
8	46994	Pin	1

REF - Reference

Jib Assembly

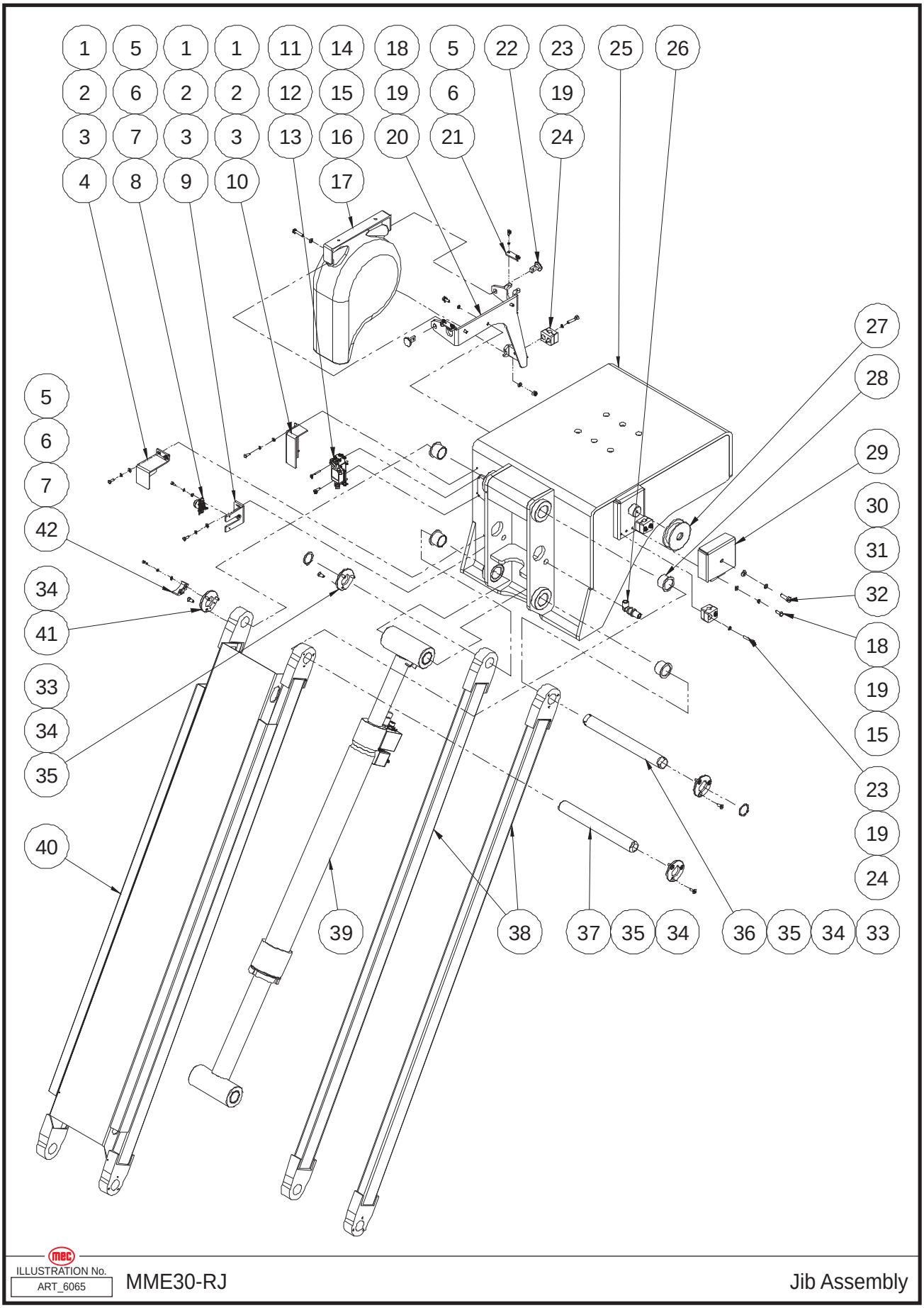


ILLUSTRATION No. ART_6065 MME30-RJ Jib Assembly

Item	Part Number	Description	Qty.
1	53081	Screw HHCS M05-0.80 × 12	6
2	53043	WSHR M05 Spring Washer	6
3	53038	WSHR M05 Standard Flat Washer	6
4	46995	Sensor Cover	1
5	50483	Screw SHCS M04-0.70 × 10	8
6	53062	WSHR M04 Spring Washer	8
7	50284	WSHR M04 Standard Flat Washer	4
8	46810	Rotary Sensor	1
9	46996	Sensor Bracket	1
10	46997	Switch Cover	1
11	53113	Screw SHCS M04-0.70 × 16	2
12	53065	Screw SHCS M04-0.70 × 30	2
13	42074	Limit Switch, Jib	1
14	50214	Screw HHCS M06-1.00 × 30	1
15	50000	WSHR M06 Standard Flat Washer	3
16	50047	Nut NNYL M06-1.00	1
17	46998	Cable Reel, Power to Platform	1
18	50445	Screw HHCS M06-1.00 × 16	4
19	53046	WSHR M06 Spring Washer	10
20	46999	Reel Bracket	1
21	47390	Press Plate	2
22	47391	Pin	2
23	53207	Screw SHCS M06-1.00 × 30	6
24	44698	Wire Clip	3
25	47392	Mast Top	1
26	47393	Elbow	1
27	44706	Pulley	1
28	46990	Bearing	4
29	47394	Cover	1
30	50001	WSHR M08 Standard Flat Washer	1
31	53055	WSHR M08 Spring Washer	1
32	50031	Screw HHCS M08-1.25 × 25	1
33	46992	Circlips	2
34	53226	Screw CSCS M06-1.00 × 16	12
35	46991	Pin Fixing Plate	3
36	47395	Pin	1
37	46994	Pin	1
38	47396	Lower Tie Rod	2
39	REF	Jib Cylinder Assembly (Refer to page 121 for Danfoss, page 123 for Yuethai)	1
40	47397	Upper Tie Rod	1
41	47398	Pin Fixing Plate	1
42	47399	Signal Plate	1

REF - Reference

Platform Assembly

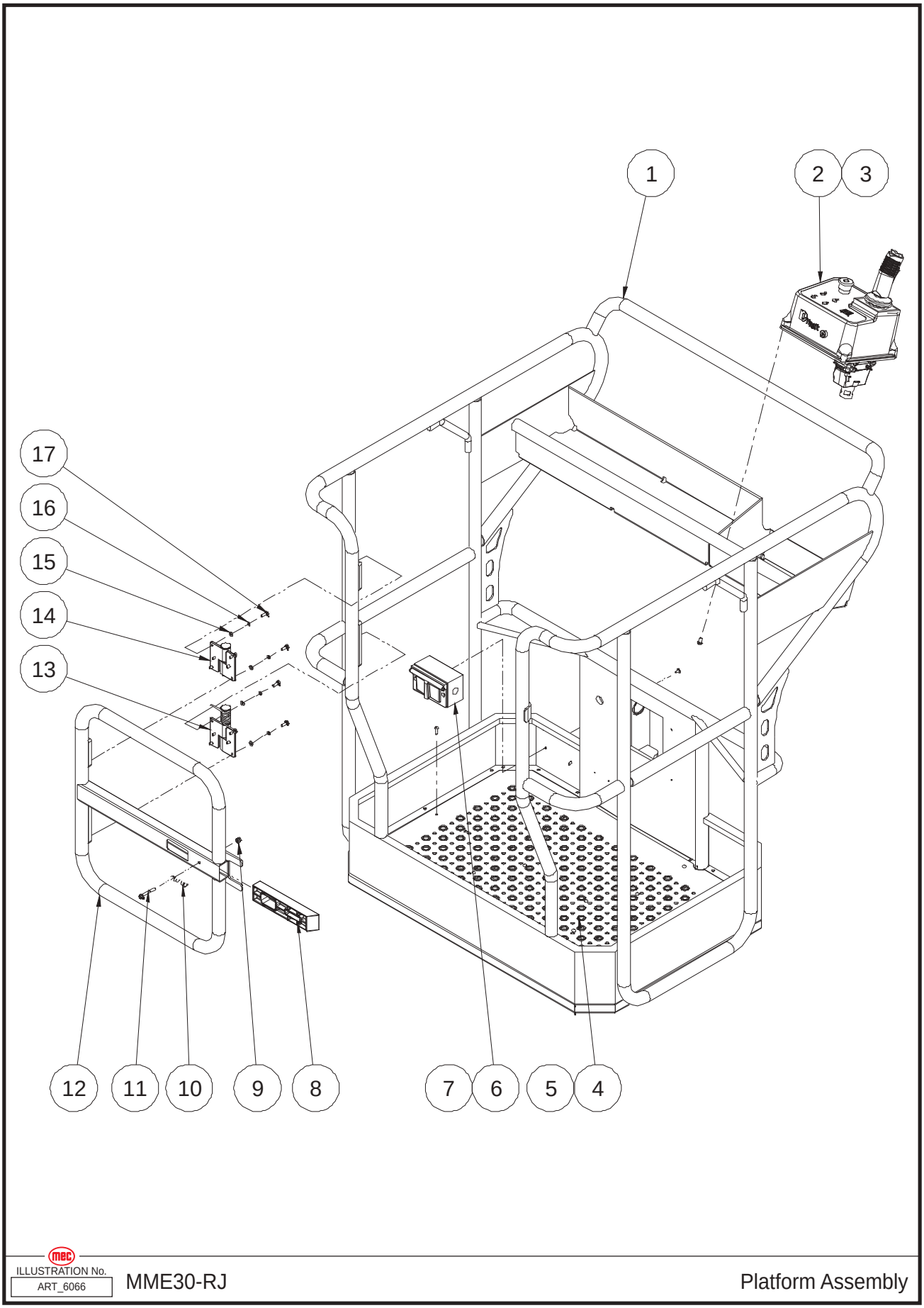


ILLUSTRATION No. ART_6066 MME30-RJ Platform Assembly

Item	Part Number	Description	Qty.
1	47400	Platform Weldment	1
2	47401	Platform Control Box Assembly (Refer to page 117)	1
3	53318	Screw PHMS M06-1.00 × 12	4
4	47402	Platform Deck Plate	1
5	43301	Rivet	14
6	42613	Electrical Outlet	1
7	53265	Screw THMS M05-0.80 × 10	4
8	41278	Latch Handle	1
9	50568	Nut NNYL M06-1.00 Flange	1
10	41277	Spring	1
11	53360	Screw HHCS M06-1.00 × 45 Flange	1
12	47403	Entry Gate	1
13	41128	Hinge B	1
14	41127	Hinge A	1
15	50000	WSHR M06 Standard Flat Washer	12
16	53046	WSHR M06 Spring Washer	12
17	50445	Screw HHCS M06-1.00 × 16	12

Platform Control Box Assembly

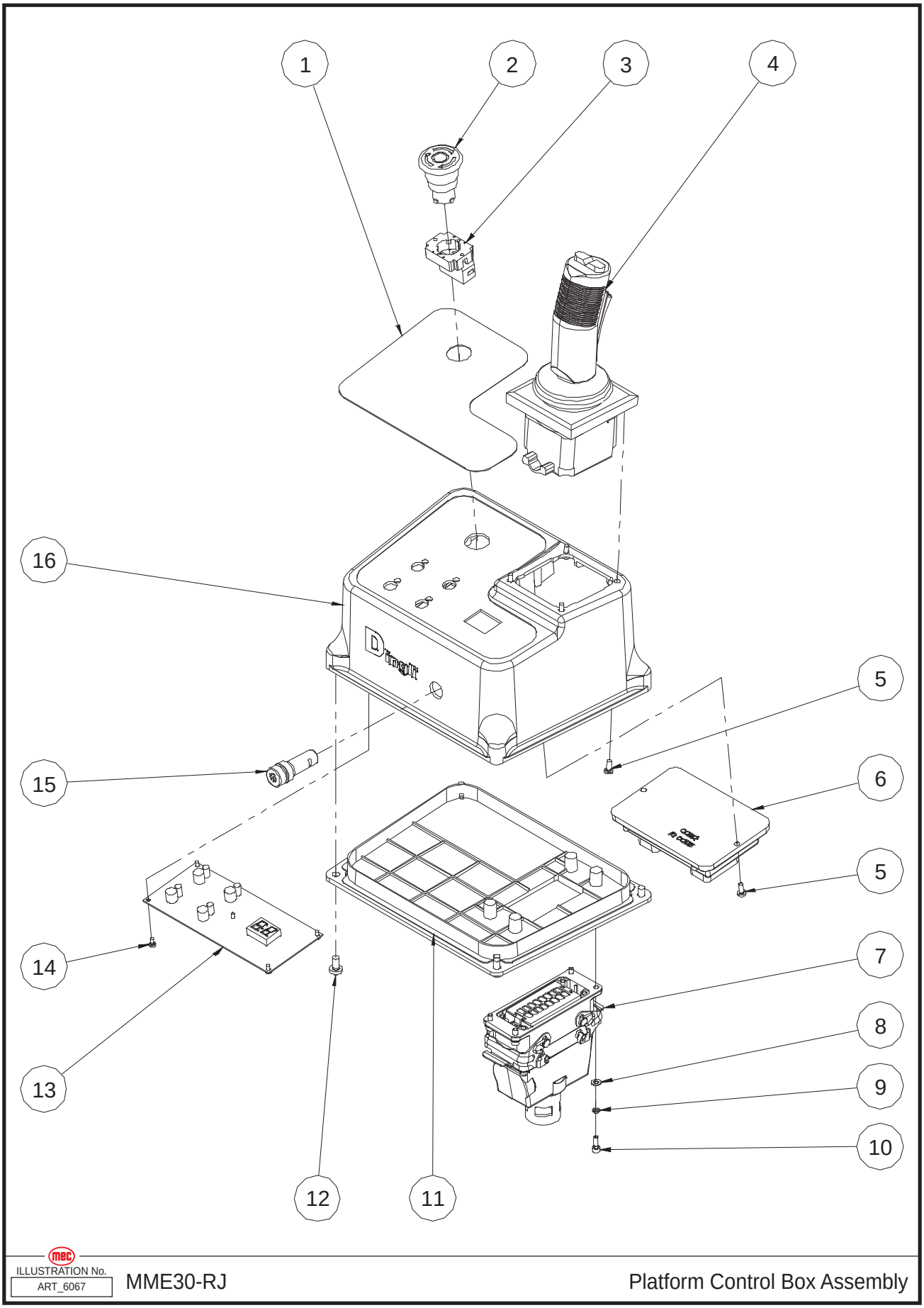


ILLUSTRATION No. ART_6067 MME30-RJ Platform Control Box Assembly

Item	Part Number	Description	Qty.
1	47404	Decal, Platform Control Panel	1
2	43098	Red Mushroom Head	1
3	43097	Base with 1 NC Contact	1
4	47405	Joystick	1
5	53259	Screw PHMS M04-0.70 × 10	6
6	47406	Control Module	1
7	47407	Connector	1
--	47408	Hood	1
--	47409	Female Insert	1
--	47410	Male Insert	1
--	47411	Housing	1
--	47412	Water-Proof Joint	1
8	50284	WSHR M04 Standard Flat Washer	4
9	53062	WSHR M04 Spring Washer	4
10	50423	Screw SHCS M04-0.70 × 12	4
11	47413	Cover Bottom	1
12	53318	Screw PHMS M06-1.00 × 12	4
13	47414	Main Board	1
14	53076	Screw PHMS M03-0.50 × 6	5
15	47415	Alarm	1
16	47416	Enclosure	1

Lift Cylinder Assembly

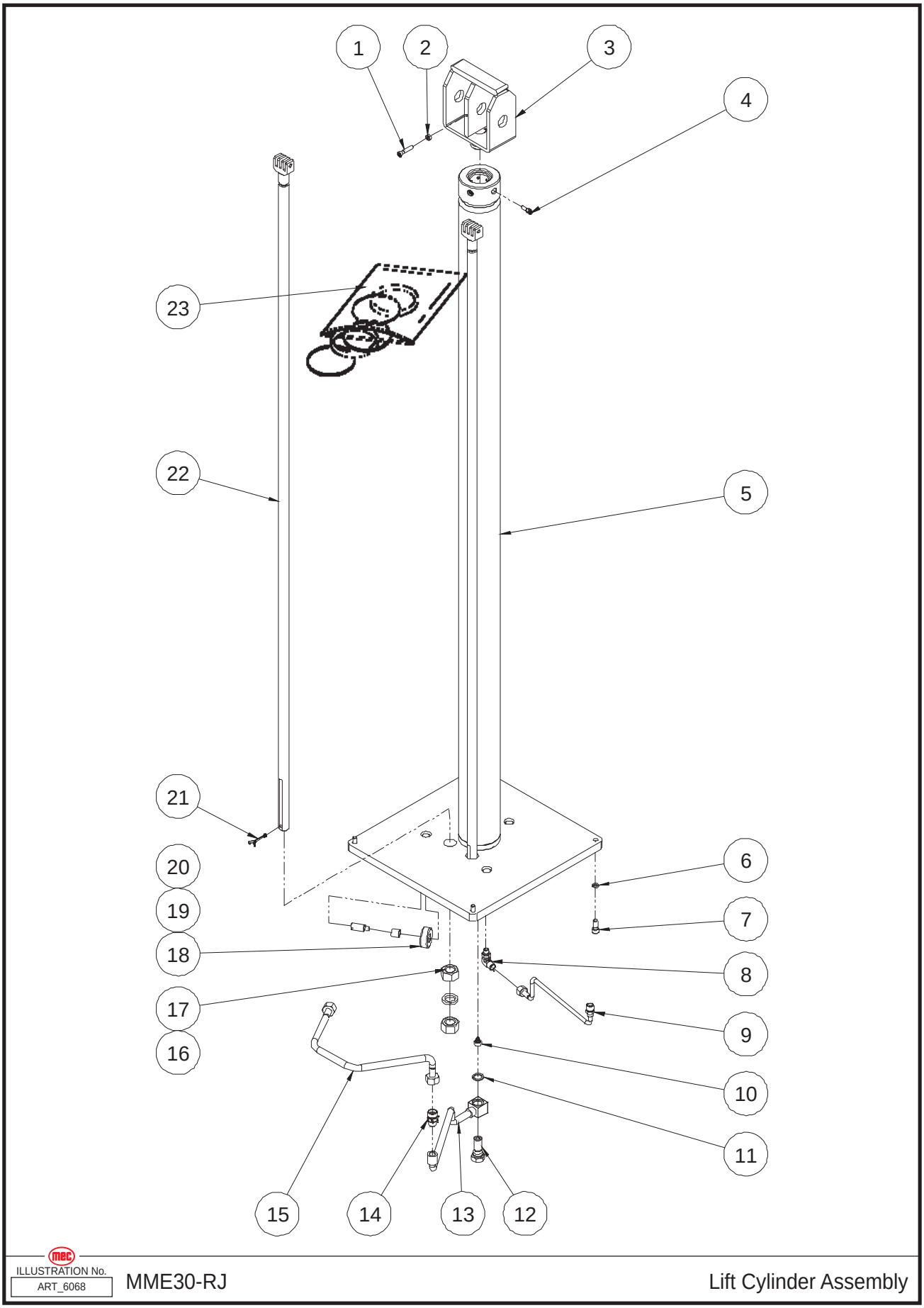


ILLUSTRATION No. ART_6068 MME30-RJ Lift Cylinder Assembly

Item	Part Number	Description	Qty.
1	53207	Screw SHCS M06-1.00 × 30	1
2	53361	Nut NHEX M06-1.00	1
3	47417	Pulley Bracket	1
4	53138	Screw SHCS M06-1.00 × 16	5
5	47418	Lift Cylinder	1
6	53055	WSHR M08 Spring Washer	4
7	53177	Screw SHCS M08-1.25 × 20	4
8	47419	Elbow	1
9	47420	Pipe	1
10	47421	Flow Control Valve	1
11	47422	Washer	1
12	47423	Fitting	1
13	47424	Pipe	1
14	47425	Straight Fitting	1
15	47426	Pipe	1
16	53517	WSHR M20 Spring Washer	2
17	53526	Nut NHEX M20-2.50	4
18	47427	Roller	3
19	47428	Bearing	3
20	47429	Pin	3
21	41322	Cotter Pin	2
22	47430	Chain Terminal	2
23	47431	Seal Kit	1

Jib Cylinder Assembly, Danfoss

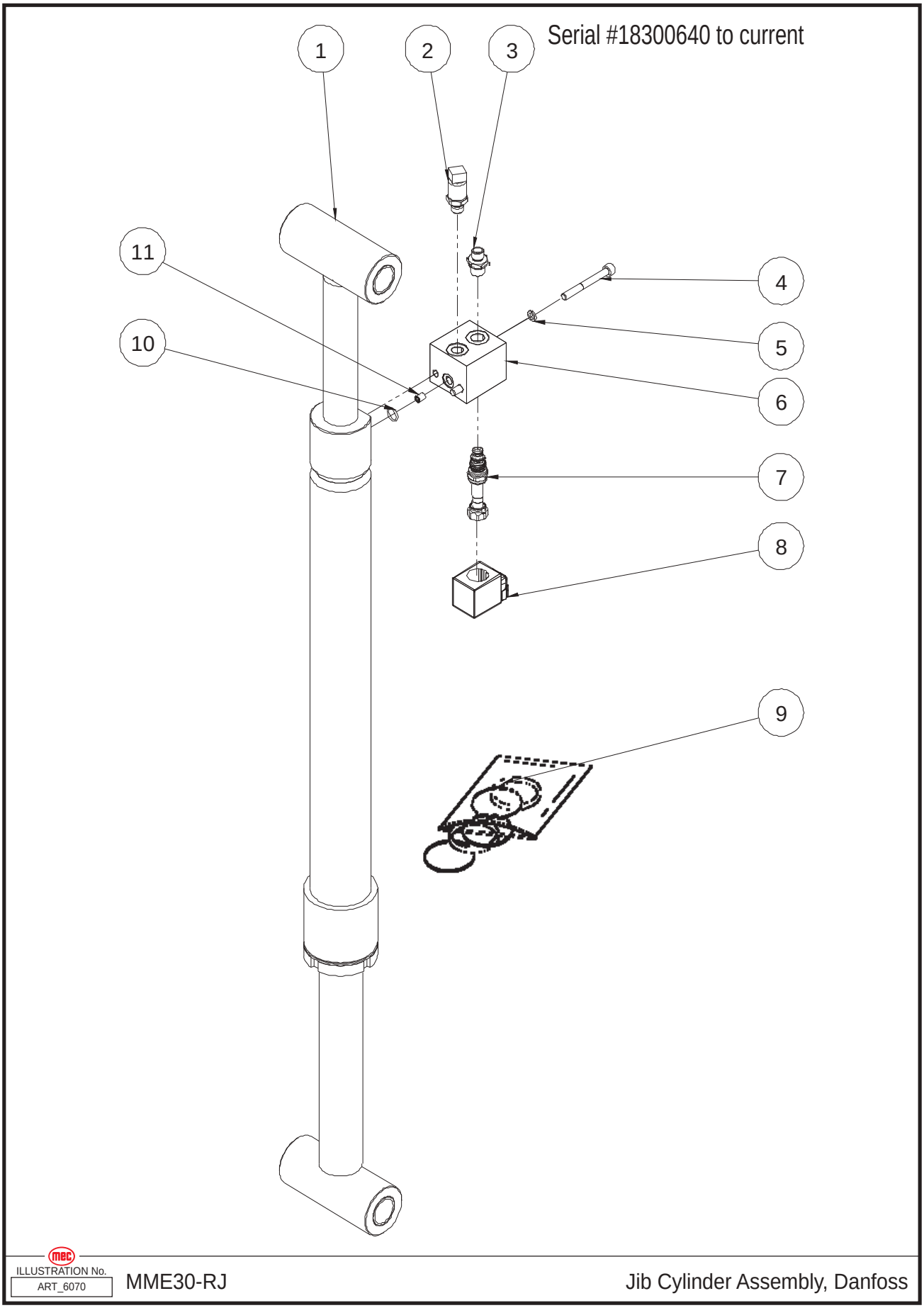


ILLUSTRATION No. ART_6070 MME30-RJ Jib Cylinder Assembly, Danfoss

Serial #18300640 to current

Item	Part Number	Description	Qty.
1	47432	Jib Cylinder	1
2	44448	Pressure Sensor	1
3	46885	Straight Fitting	1
4	53527	Screw SHCS M08-1.25 × 70	2
5	53055	WSHR M08 Spring Washer	2
6	47438	Valve Body	1
7	47434	Proportional Valve	1
8	47435	Coil	1
9	47436	Seal Kit	1
10	47439	O-Ring	1
11	43432	Orifice	1

Jib Cylinder Assembly, Yuethai

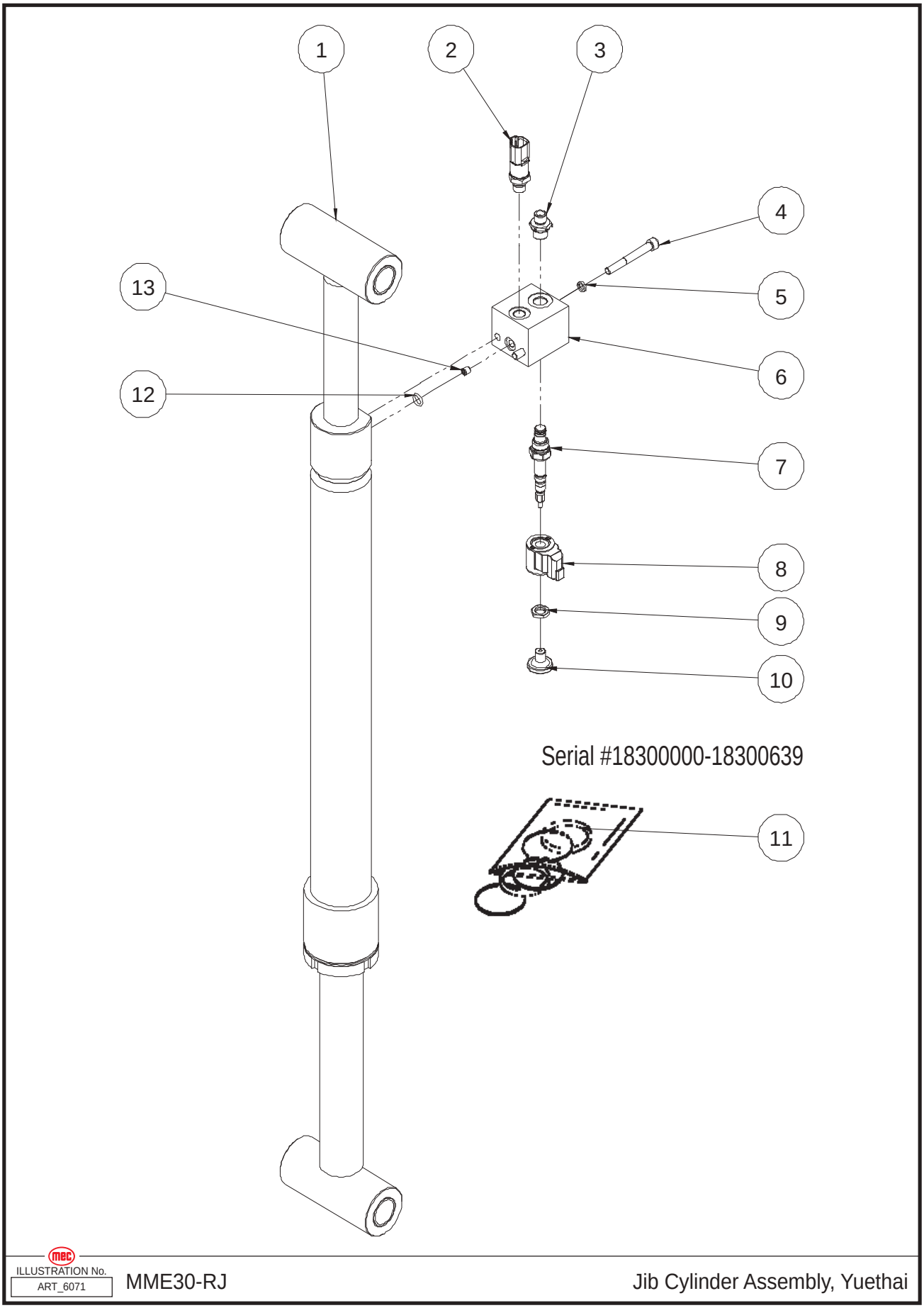
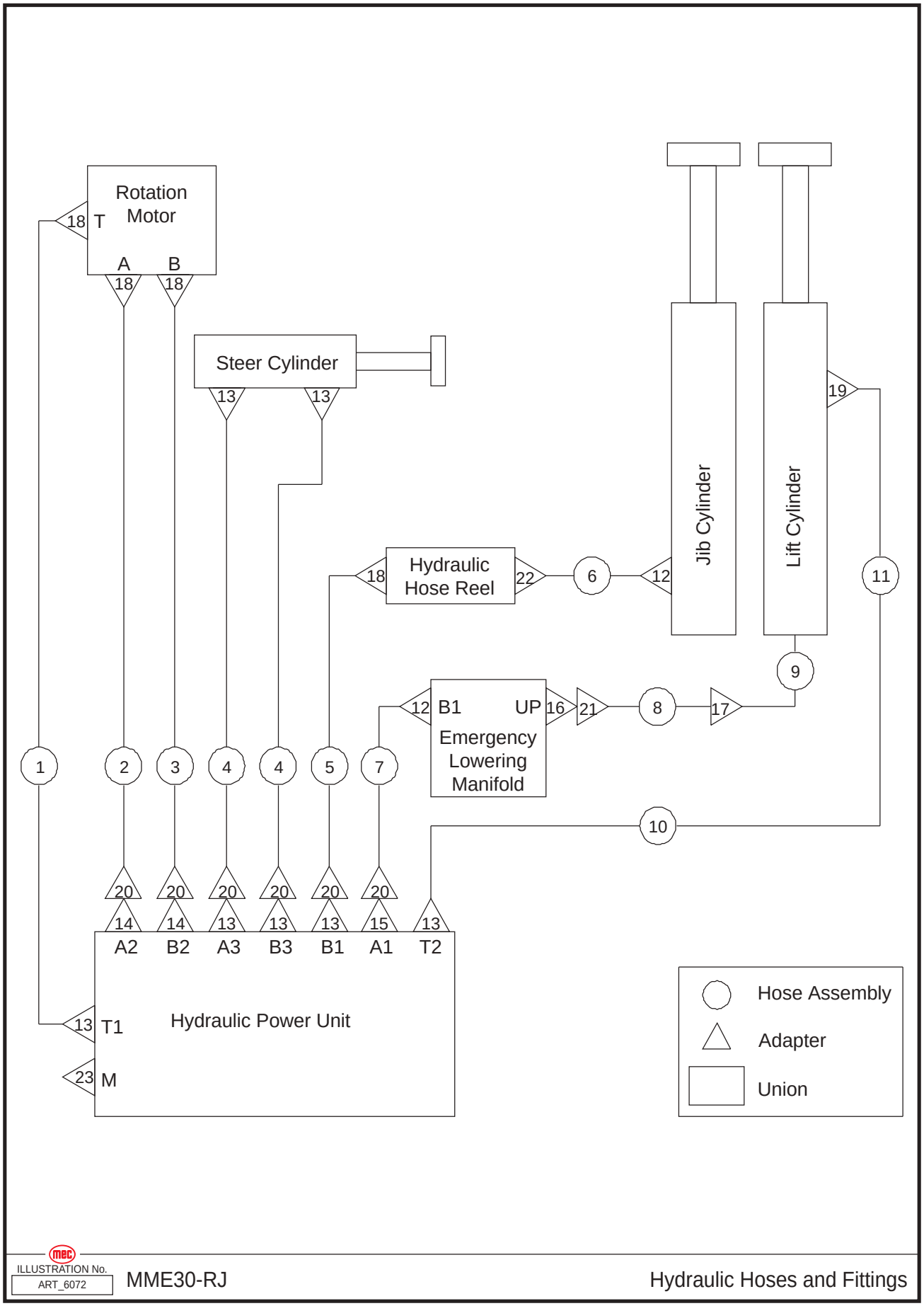


ILLUSTRATION No. ART_6071 MME30-RJ Jib Cylinder Assembly, Yuethai

Serial #18300000-18300639

Item	Part Number	Description	Qty.
1	47432	Jib Cylinder	1
2	44448	Pressure Sensor	1
3	46885	Straight Fitting	1
4	53527	Screw SHCS M08-1.25 × 70	2
5	53055	WSHR M08 Spring Washer	2
6	47440	Valve Body	1
7	47441	Solenoid Valve Spool	1
8	47442	Coil	1
9	42795	Nut	1
10	41162	Handle	1
11	47436	Seal Kit	1
12	47439	O-Ring	1
13	47443	Orifice	1

Hydraulic Hoses and Fittings



Item	Part Number	Description	Qty.
1	47444	Hose Assembly	1
2	47445	Hose Assembly	1
3	47446	Hose Assembly	1
4	47447	Hose Assembly	2
5	47448	Hose Assembly	1
6	47449	Hose Assembly	1
7	47450	Hose Assembly	1
8	47426	Pipe	1
9	47451	Pipe	1
10	47452	Hose Assembly	1
11	47420	Pipe	1
12	46885	Straight Fitting	2
13	46792	Straight Fitting	7
14	46870	Straight Fitting	2
15	46871	Straight Fitting	1
16	46886	Straight Fitting	1
17	47425	Straight Fitting	1
18	46841	Straight Fitting	4
19	47419	Elbow	1
20	43077	Elbow	6
21	43082	Elbow	1
22	47393	Elbow	1
23	46869	Plug	1

Electrical Harness, Part 1

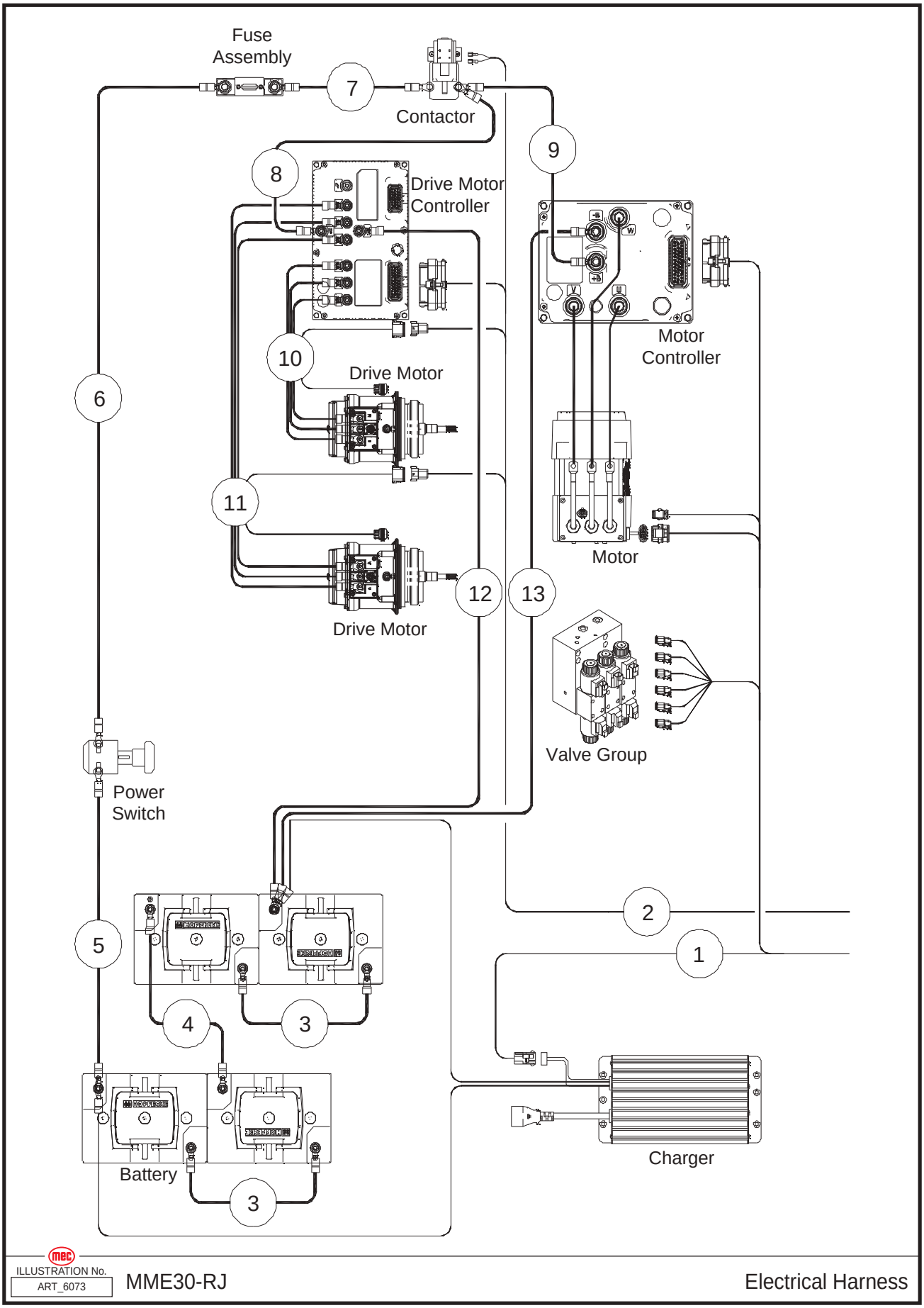


ILLUSTRATION No. ART_6073 MME30-RJ Electrical Harness

Item	Part Number	Description	Qty.
1	47453	CT1 Harness	1
2	47454	CT2 Harness	1
3	47464	Battery Series Harness 1	1
4	47503	Battery Series Harness 2	1
5	47455	Power Harness	1
6	47457	Power Harness	1
7	47458	Power Harness	1
8	47459	Power Harness	1
9	47460	Power Harness	1
10	47461	Left Drive Motor Harness	1
11	47462	Right Drive Motor Harness	1
12	47456	Power Harness	1
13	47463	Power Harness	1

Electrical Harness, Part 2

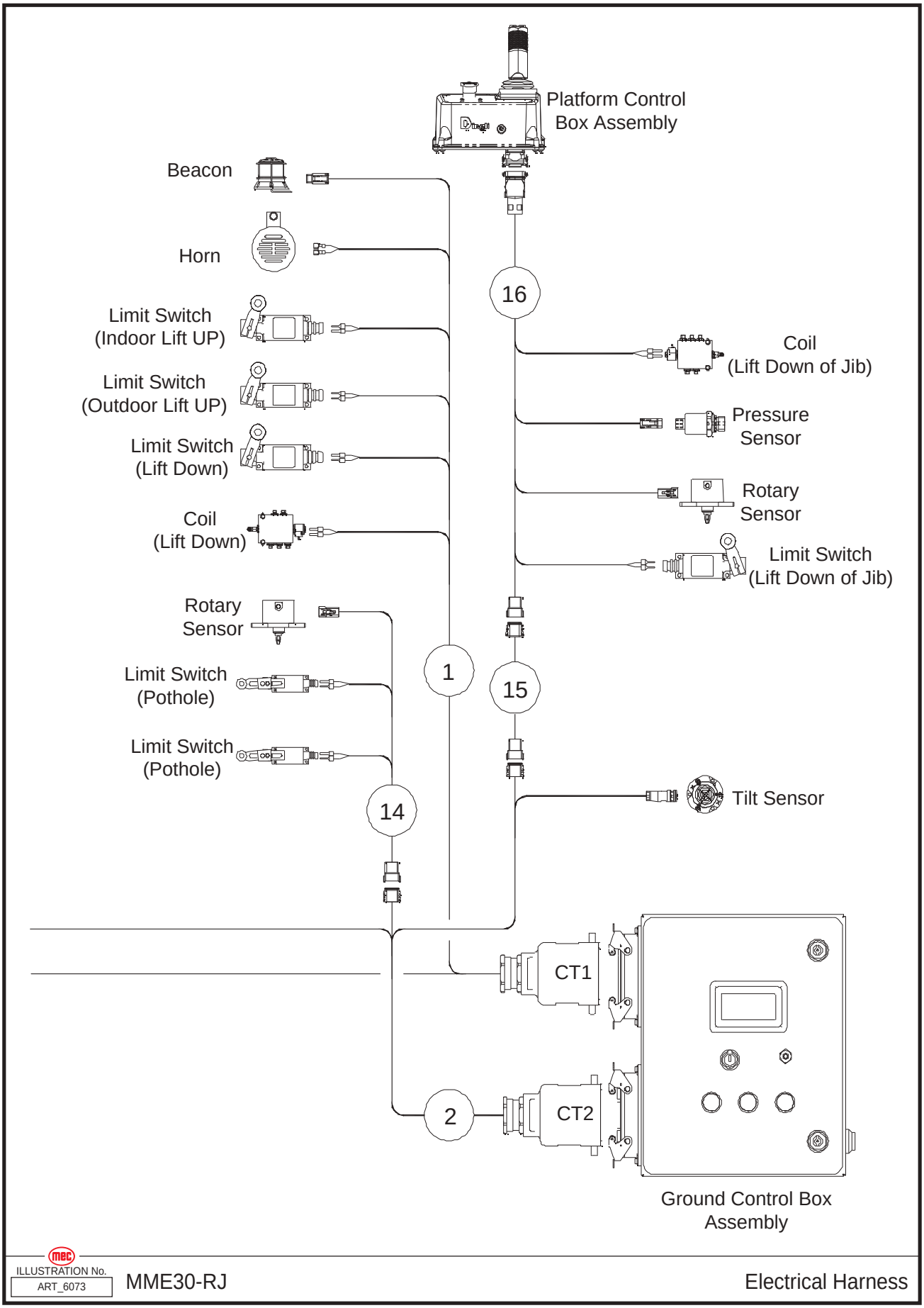


ILLUSTRATION No. ART_6073

MME30-RJ

Electrical Harness

Item	Part Number	Description	Qty.
1	47453	CT1 Harness	1
2	47454	CT2 Harness	1
14	47465	Pothole Switch and Potentiometer Harness	1
15	47466	Spring Harness	1
16	47467	CT3 Harness	1

Power to Platform

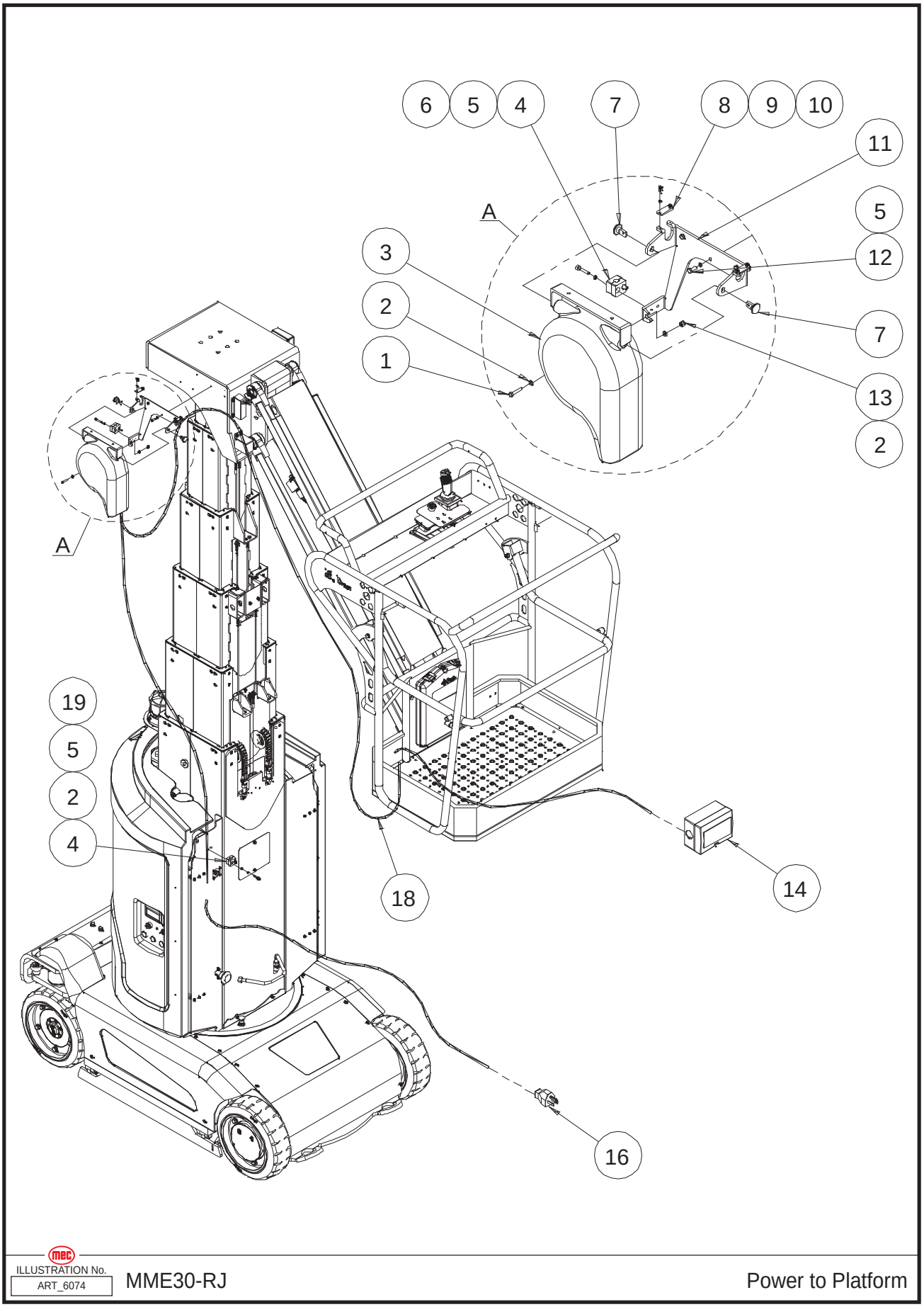
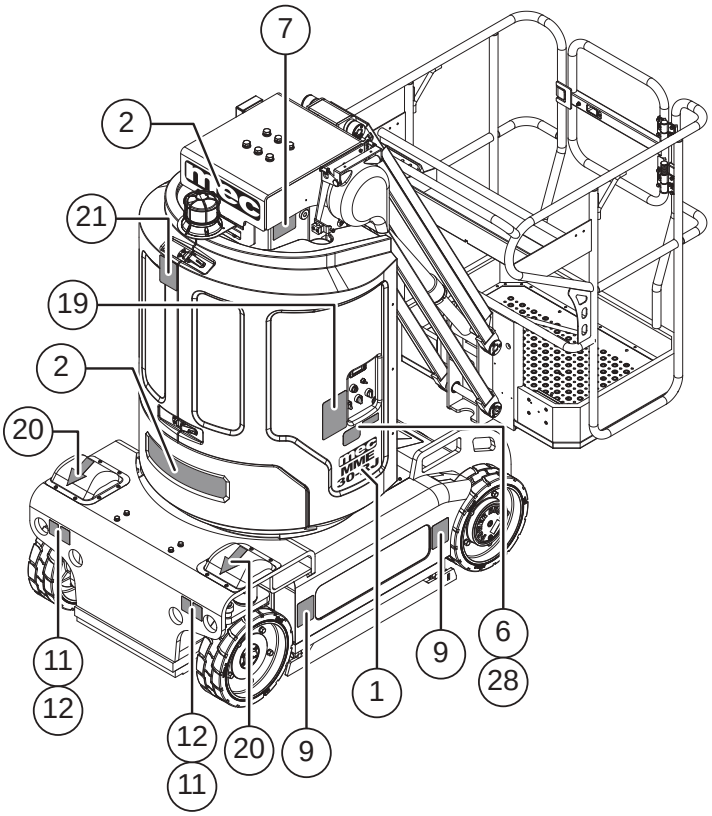
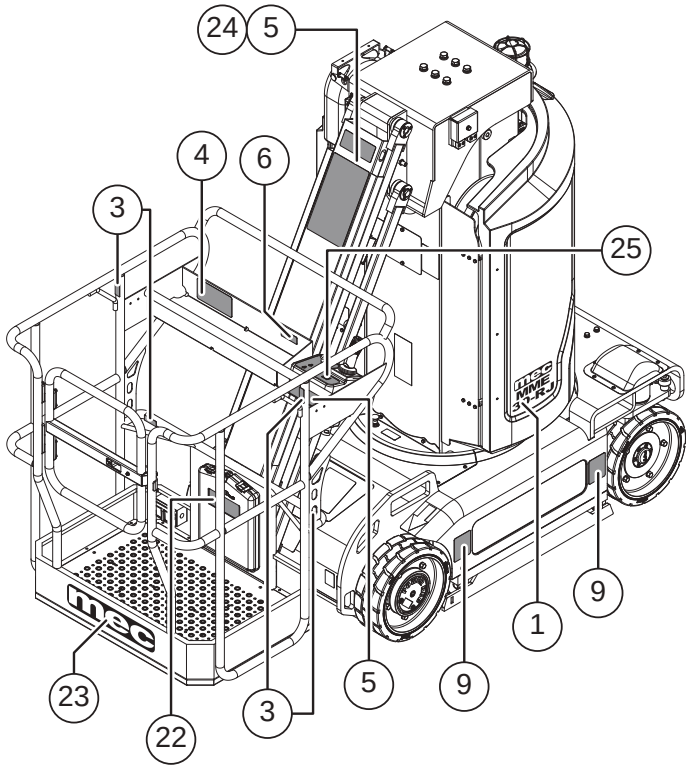


ILLUSTRATION No. ART_6074 MME30-RJ Power to Platform

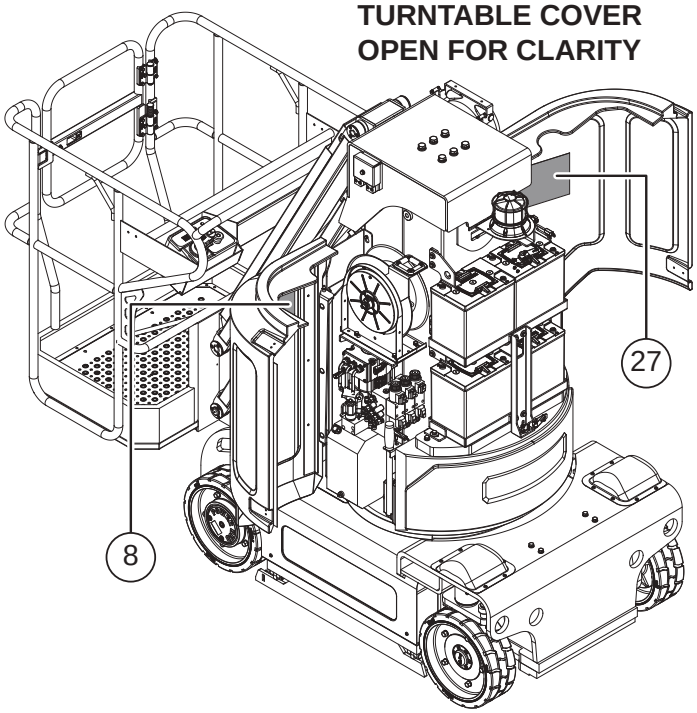
Item	Part Number	Description	Qty.
1	50214	Screw HHCS M06-1.00 × 30	1
2	50000	WSHR M06 Standard Flat Washer	3
3	46998	Cable Reel, Power to Platform	1
4	44698	Wire Clip	2
5	53046	WSHR M06 Spring Washer	7
6	53207	Screw SHCS M06-1.00 × 30	2
7	47391	Pin	2
8	47390	Press Plate	2
9	53062	WSHR M04 Spring Washer	4
10	50483	Screw SHCS M04-0.70 × 10	4
11	46999	Reel Bracket	1
12	50445	Screw HHCS M06-1.00 × 16	3
13	50047	Nut NNYL M06-1.00	1
14	43694	AC Socket	1
15	--	--	--
16	43690	AC Plug	1
17	--	--	--
18	47468	Wire Cable, Platform AC Power	1
19	53123	Screw SHCS M06-1.00 × 25	2

Decals

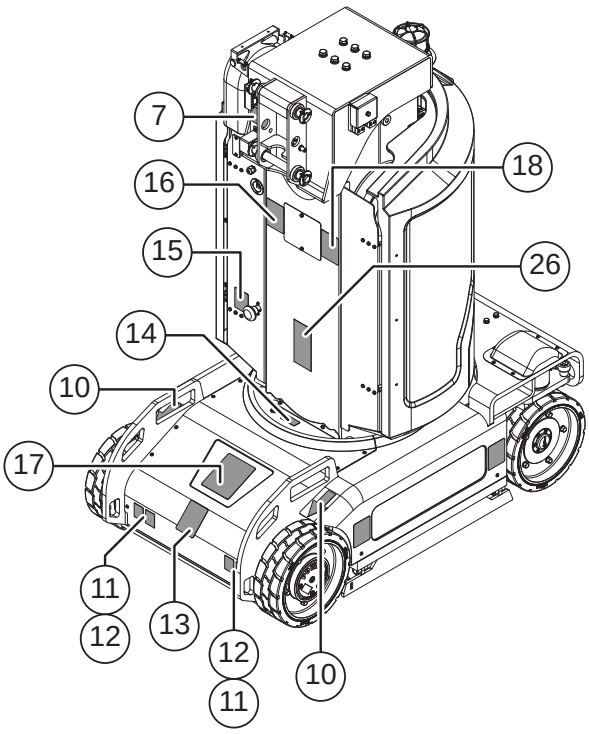


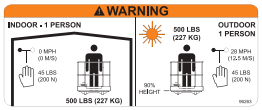
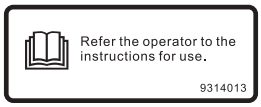
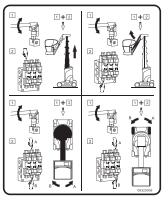
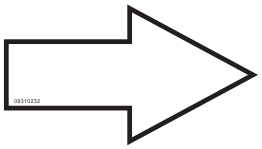
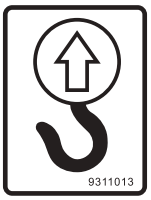
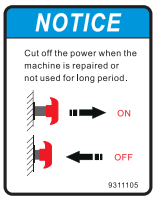
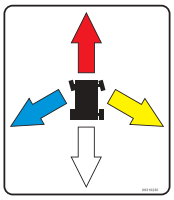
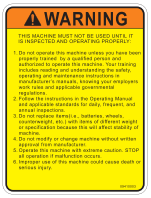
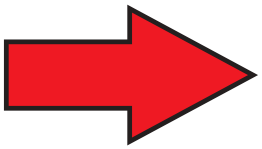
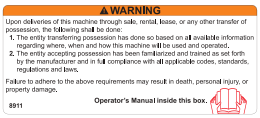
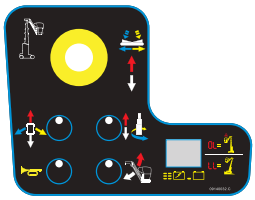
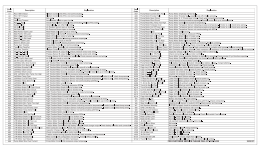
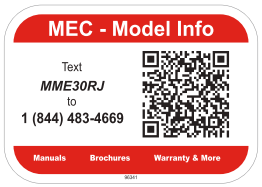


TURNTABLE COVER OPEN FOR CLARITY



PLATFORM AND JIB REMOVED FOR CLARITY



1 MME 30-RJ 96244 Qty. - 2	2  96259 Qty. - 2	3  41648 Qty. - 4	4  46726 Qty. - 1	5  96263 Qty. - 2
6  41639 Qty. - 2	7  46727 Qty. - 2	8  46641 Qty. - 1	9  46728 Qty. - 4	10  46729 Qty. - 2
11  41635 Qty. - 4	12  41634 Qty. - 4	13  46730 Qty. - 1	14  41636 Qty. - 1	15  41637 Qty. - 1
16  46724 Qty. - 1	17  46732 Qty. - 1	18  46725 Qty. - 1	19  46733 Qty. - 1	20  46731 Qty. - 2
21  46774 Qty. - 1	22  8911 Qty. - 1	23  94114 Qty. - 1	24  41652 Qty. - 1	25  47404 Qty. - 1
26  96269 Qty. - 1	27  96368 Qty. - 1	28  96341 Qty. - 1		

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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