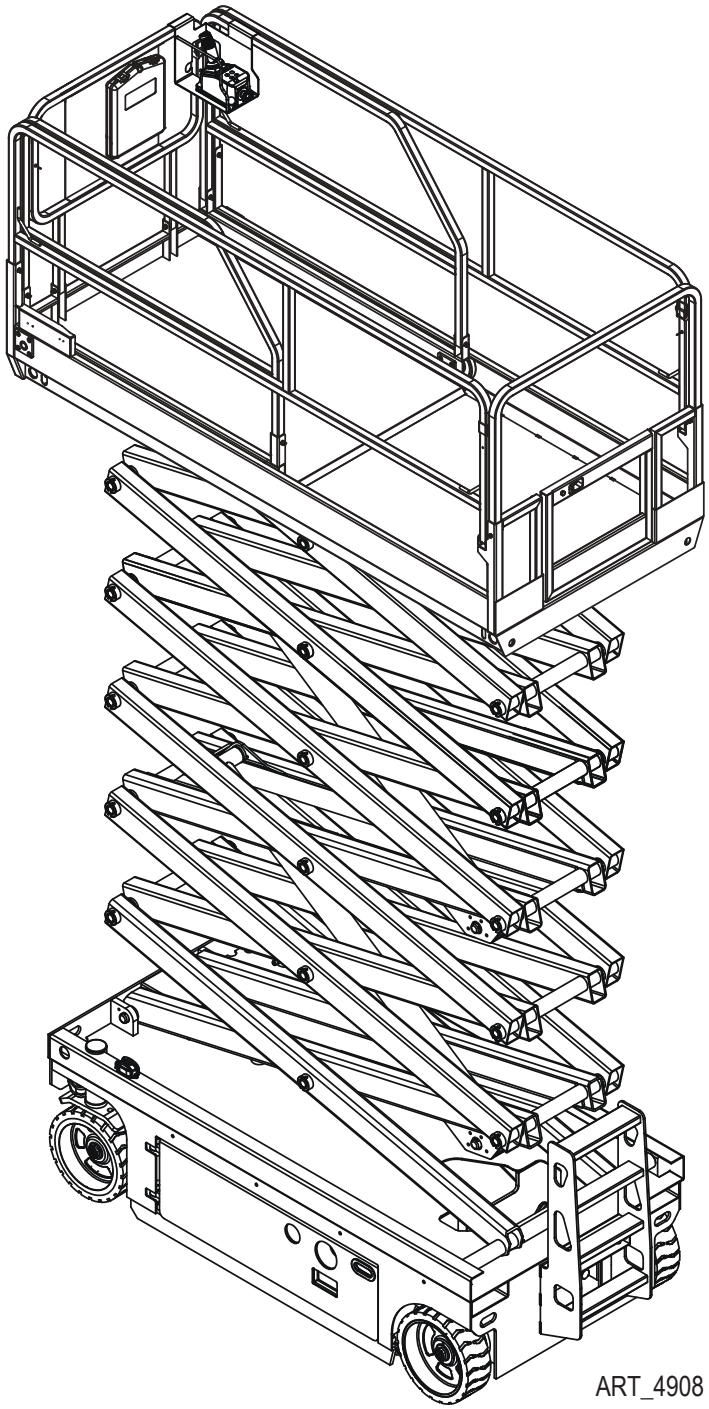
Service & Parts Manual

SE^{AC} Slab Series



ART_4908

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

1930SE Serial Number 18100100 - Up
2632SE Serial Number 17500100 - Up
3232SE Serial Number 19600000 - Up
3346SE Serial Number 17600100 - Up
4046SE Serial Number 17700100 - Up
4555SE Serial Number 17800100 - Up

Part # 96121
August 2024

Revision History

Date	Reason for Update
March 2022	New Release
January 2024	Added 3232SE information
August 2024	Changed 42968 to 45236 Changed 42969 to 45237

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:

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.

Specifications - 1930SE, 2632SE, 3232SE

		1930SE		2632SE		3232SE	
Working Height*	Indoor	25 ft	7.8 m	32.2 ft	10 m	38.5 ft	10 m
	Outdoor	25 ft	7.8 m	26 ft	8 m	30.5 ft	9.3 m
Platform Height	Indoor	19 ft	5.8 m	26.2 ft	8 m	32 ft	9.75 m
	Outdoor	19 ft	5.8 m	20 ft	6.1 m	24 ft	7.3 m
Maximum Drive Height		19 ft	5.8 m	26.2 ft	8 m	32 ft	9.75 m
Stowed Height	Top Guardrail	79.75 in	2.02 m	91 in	2.3 m	98.8 in	2.51 m
	Rails Folded	N/A		78 in	5 m	80.7 in	2.05 m
	Platform Floor	40.75 in	1.04 m	48 in	1.22 m	78.7 in	2 m
Guardrail Height		39 in	1 m	43.5 in	1.11 m	43.5 in	1.11 m
Toeboard Height		6 in	15 cm	6 in	15 cm	6 in	15 cm
Machine Weight** (Unloaded)		3,440 lb	1,560 kg	4,870 lb	2,210 kg	7,145 lbs	3,240 kg
Maximum Lift Capacity		550 lb	250 kg	550 lb	250 kg	550 lb	250 kg
Sheet Material Rack Capacity†		110 lb†	50 kg†	110 lb†	50 kg†	N/A	
Deck Extension Capacity		1 Person / 250 lb (113 kg)		1 Person / 250 lb (113 kg)		1 Person / 250 lb (113 kg)	
Maximum Occupants	Indoor	2 Person		2 Person		2 Person	
	Outdoor	1 Person		1 Person		1 Person	
Manual Force	Indoor	90 lbs	400 N	90 lbs	400 N	90 lbs	400 N
	Outdoor	45 lbs	200 N	45 lbs	200 N	45 lbs	200 N
Length-Stowed (Overall)		74 in	1.86 m	97 in	2.46 m	97.5 in	2.47 m
Length-Stowed (Ladder Removed)		66 in	1.67 m	89.5 in	2.27 m	88.8 in	2.25 m
Platform Length (Extended)		100 in	2.54 m	124.5 in	3.16 m	133.1 in	3.38 m
Platform Length (Retracted)		65 in	1.65 m	89.5 in	2.27 m	97.6 in	2.48 m
Width (Overall)		30 in	76 cm	32 in	81 cm	32.7 in	0.83 m
Platform Width (Outside)		29 in	74 cm	32 in	81 cm	31.8 in	0.8 m
Wheel Base		54 in	1.36 m	74 in	1.87 m	73.6 in	1.87 m
Turning Radius - Inside		0 in	0 cm	0 in	0 cm	0 in	0 cm
Ground Clearance - Stowed		3.25 in	8.3 cm	4 in	10 cm	3.9 in	10 cm
Ground Clearance - Elevated		0.625 in	1.6 cm	0.7 in	2 cm	0.7 in	1.9 cm
Drive Speed (Proportional)	Stowed	0-2.8 mph	0-4.5 km/h	0-2.5 mph	0-4.0 km/h	0-3.1 mph	0-5.0 km/h
	Raised/Extended	0-0.5 mph	0-0.8 km/h	0-0.5 mph	0-0.8 km/h	0-0.5 mph	0-0.8 km/h
Gradability		25% (14°)		25% (14°)		25% (14°)	
Maximum Side Slope - Stowed		5°		5°		5°	
Tilt Sensor Settings		2° side-to-side, 3° fore-and-aft		2° side-to-side, 3° fore-and-aft		2° side-to-side, 3° fore-and-aft	
Ground Pressure/Wheel		130 psi	9.14 kg/cm^2	154 psi	10.8 kg/cm^2	167 psi	11.7 kg/cm^2
Maximum Wheel Load		1,180 lb	535 kg	1,600 lb	725 kg	2,308 lbs	1,047 kg
Occupied Floor Pressure		263 psf	1,284 kg/m^2	268 psf	1,308 kg/m^2	379 psf	1,847 kg/m^2
Maximum Operating Wind Speed		28 mph / 12.5 m/sec (45 km/h)		28 mph / 12.5 m/sec (45 km/h)		28 mph / 12.5 m/sec (45 km/h)	
Tire Size		12 × 4 inch / 305 × 100 mm		15 × 5 inch / 381 × 127 mm		15 × 5 inch / 381 × 127 mm	
Wheel Bolt Torque		19 ft-lb / 25.5 Nm		43 ft-lb / 58.3 Nm		84 ft-lb / 115 Nm	
Hydraulic Pressure		3,000 psi / 207 bar		3,000 psi / 207 bar		3,480 psi / 240 bar	
Power System Voltage		24 Volt DC / 210 Ah		24 Volt DC / 225 Ah		24 Volt DC / 240 Ah	
Battery Charger	Input	110-230 V AC, 50-60 Hz		110-230 V AC, 50-60 Hz		110-230 V AC, 50-60 Hz	
	Output	24 Volt DC		24 Volt DC		24 Volt DC	
Batteries		Four 6-Volt deep cycle, 210 Ah		Four 6-Volt deep cycle, 225 Ah		Four 12-Volt deep cycle, 240 Ah	
Chassis Inclination		1.5 Side / 3.0 Inline		1.5 Side / 3.0 Inline		1.5 Side / 3.0 Inline	

Meets requirements of ANSI A92.20-2020 and CSA B354.6-2019.
*Working Height adds 6 feet (2 m) to platform height.
**Weight may increase with certain options.
†Sheet material weight is part of the total platform capacity. This may limit capacity to one occupant.

Specifications - 3346SE, 4046SE, 4555SE

		3346SE		4046SE		4555SE	
Working Height*	Indoor	38.8 ft	12 m	44.7 ft	13.6 m	51 ft	15.7 m
	Outdoor	32 ft	10 m	34.4 ft	10.5 m	36.7 ft	11.2 m
Platform Height	Indoor	32.8 ft	10 m	38.7 ft	11.8 m	45 ft	13.7 m
	Outdoor	26 ft	8 m	28 ft	8.5 m	30 ft	9.2 m
Maximum Drive Height		32.8 ft	10 m	38.7 ft	11.8 m	45 ft	13.7 m
Stowed Height	Top Guardrail	96.5 in	2.5 m	102 in	2.6 m	102 in	2.6 m
	Rails Folded	75 in	1.9 m	79 in	2.0 m	79 in	2.0 m
	Platform Floor	53 in	1.35 m	58 in	1.48 m	58 in	1.48 m
Guardrail Height		43.5 in	1.11 m	43.5 in	1.11 m	43.5 in	1.11 m
Toeboard Height		6 in	15 cm	6 in	15 cm	6 in	15 cm
Machine Weight** (Unloaded)		5,820 lb	2,640 kg	7,140 lb	3,240 kg	7,760 lb	3,520 kg
Maximum Lift Capacity		800 lb	363 kg	750 lb	340 kg	750 lb	340 kg
Sheet Material Rack Capacity†		250 lb†	113 kg†	N/A		N/A	
Deck Extension Capacity		1 Person / 250 lb (113 kg)		1 Person / 250 lb (113 kg)		1 Person / 250 lb (113 kg)	
Maximum Occupants	Indoor	2 Person		2 Person		2 Person	
	Outdoor	1 Person		1 Person		1 Person	
Manual Force	Indoor	90 lbs	400 N	90 lbs	400 N	90 lbs	400 N
	Outdoor	45 lbs	200 N	45 lbs	200 N	45 lbs	200 N
Length-Stowed (Overall)		97 in	2.46 m	98 in	2.5 m	112 in	2.85 m
Length-Stowed (Ladder Removed)		89.5 in	2.27 m	89.5 in	2.27 m	104 in	2.65 m
Platform Length (Extended)		124.5 in	3.16 m	124.5 in	3.16 m	139 in	3.53 m
Platform Length (Retracted)		89.5 in	2.27 m	89.5 in	2.27 m	104 in	2.65 m
Width (Overall)		47 in	1.19 m	47 in	1.2 cm	55 in	1.4 cm
Platform Width (Outside)		44 in	1.12 m	44 in	1.12 cm	44 in	1.12 cm
Wheel Base		74 in	1.87 m	74 in	1.87 m	87 in	2.22 m
Turning Radius - Inside		0 in	0 cm	0 in	0 cm	0 in	0 cm
Ground Clearance - Stowed		4 in	10 cm	4 in	10 cm	4 in	10 cm
Ground Clearance - Elevated		0.7 in	2 cm	0.7 in	2 cm	0.7 in	2 cm
Drive Speed (Proportional)	Stowed	0-2.5 mph	0-4.0 km/h	0-2.5 mph	0-4.0 km/h	0-2.5 mph	0-4.0 km/h
	Raised/Extended	0-0.5 mph	0-0.8 km/h	0-0.5 mph	0-0.8 km/h	0-0.5 mph	0-0.8 km/h
Gradability		25% (14°)		25% (14°)		25% (14°)	
Maximum Side Slope - Stowed		5°		5°		5°	
Tilt Sensor Settings		2° side-to-side, 3° fore-and-aft		2° side-to-side, 3° fore-and-aft		2° side-to-side, 3° fore-and-aft	
Ground Pressure/Wheel		160 psi	11.2 kg/cm^2	167 psi	11.7 kg/cm^2	256 psi	18 kg/cm^2
Maximum Wheel Load		1,900 lb	860 kg	2,250 lb	1,020 kg	2,400 lb	1,090 kg
Occupied Floor Pressure		224 psf	1,091 kg/m^2	255 psf	1,240 kg/m^2	194 psf	947 kg/m^2
Maximum Operating Wind Speed		28 mph / 12.5 m/sec (45 km/h)		28 mph / 12.5 m/sec (45 km/h)		28 mph / 12.5 m/sec (45 km/h)	
Tire Size		15 × 5 inch / 381 × 127 mm		15 × 5 inch / 381 × 127 mm		15 × 5 inch / 381 × 127 mm	
Wheel Bolt Torque		43 ft-lb / 58.3 Nm		43 ft-lb / 58.3 Nm		43 ft-lb / 58.3 Nm	
Hydraulic Pressure		3,000 psi / 207 bar		3,000 psi / 207 bar		3,000 psi / 207 bar	
Power System Voltage		24 Volt DC / 240 Ah		24 Volt DC / 300Ah		24 Volt DC / 300Ah	
Battery Charger	Input	110-230 V AC, 50-60 Hz		110-230 V AC, 50-60 Hz		110-230 V AC, 50-60 Hz	
	Output	24 Volt DC		24 Volt DC		24 Volt DC	
Batteries		Four 6-Volt deep cycle, 240 Ah		Four 12-Volt deep cycle, 300 Ah		Four 12-Volt deep cycle, 300 Ah	
Chassis Inclination		1.5 Side / 3.0 Inline		1.5 Side / 3.0 Inline		1.5 Side / 3.0 Inline	

Meets requirements of ANSI A92.20-2020 and CSA B354.6-2019.
*Working Height adds 6 feet (2 m) to platform height.
**Weight may increase with certain options.
†Sheet material weight is part of the total platform capacity. This may limit capacity to one occupant.

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

Maintenance Lock - 1930SE-3346SE

DEATH OR SERIOUS INJURY HAZARD!

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

WARNING

On machines equipped with two Maintenance Locks, both must be set to safely work on or inspect the machine.

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

1930SE, 2632SE, 3232SE, and 3346SE Machines:

On the 1930SE, the Maintenance Lock is located at the rear of the scissor stack. From the 2632SE up to the 3346SE, the Maintenance Lock is located at the front of the scissor stack.

1. Raise the platform approximately just high enough to rotate the Maintenance Lock into place.
2. Lift the Maintenance Lock, move it to the center of the scissor arm, then rotate it up to a vertical position.

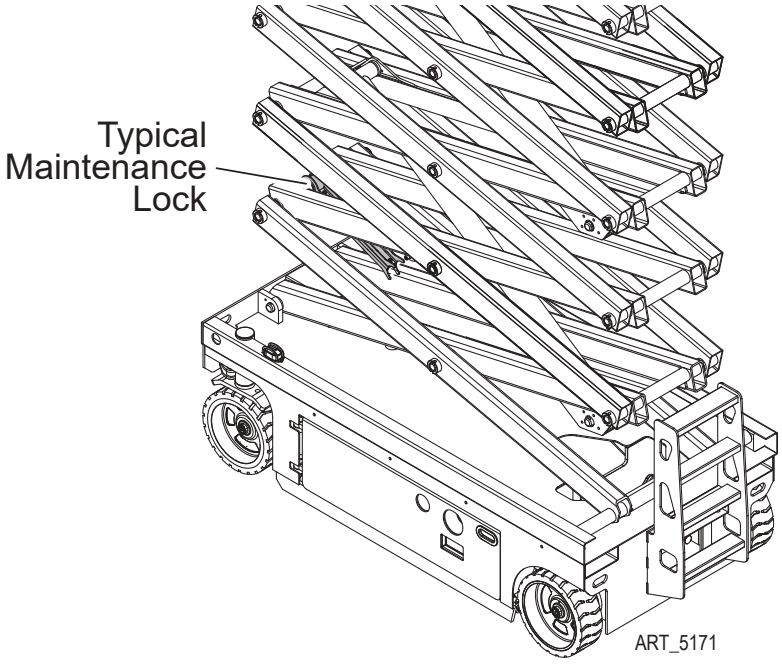
CAUTION

The Maintenance Lock must engage the scissor section above it.

DO NOT set it so that it hangs down.

Lower the platform until the Maintenance Lock rests securely on the link.

Keep clear of the Maintenance Lock when lowering the platform.



Maintenance Locks - 4046SE-4555SE

DEATH OR SERIOUS INJURY HAZARD!

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

WARNING

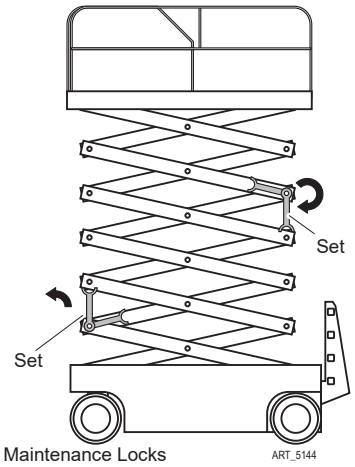
On machines equipped with two Maintenance Locks, both must be set to safely work on or inspect the machine.

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

Setting the Maintenance Locks

There are two Maintenance Locks on these machines inside the scissor assembly. Both must be set whenever work or inspection is being performed on the machine.

1. Raise the platform approximately 13 ft (4 m), just high enough to rotate the Maintenance Locks into place.
2. Lift the ladder-end Maintenance Lock, move it to the center of the scissor arm, then rotate it down to a vertical position. Use the machine entry ladder to reach the rear Maintenance Lock.
3. Lift the front-end Maintenance Lock, move it to the center of the scissor arm, then rotate it up to a vertical position.

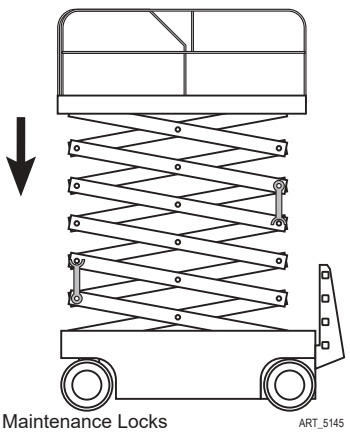


CAUTION

The Front End Maintenance Lock must engage the scissor section above it.

DO NOT set it so that it hangs down.

4. Lower the platform until the Maintenance Locks rest lightly on the scissor link cross tubes. Keep clear of the Maintenance Locks when lowering the platform.

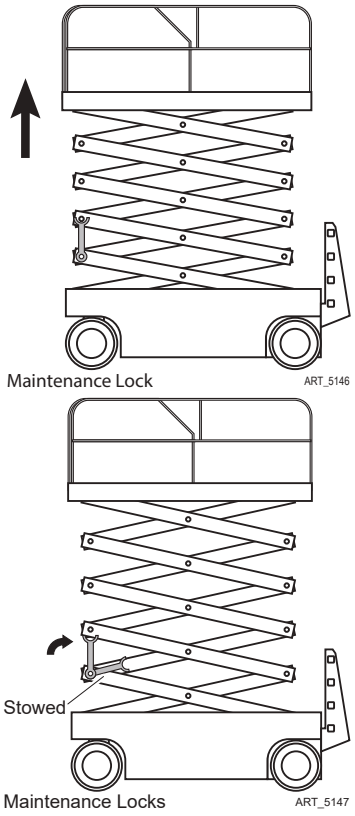


Stowing the Maintenance Locks

CAUTION

BOTH Maintenance Locks must be stowed before lowering the platform.

DO NOT attempt to lower the platform with one maintenance lock in place.



1. Raise the platform approximately 1 ft (0.3 m) higher so that the Maintenance Locks clear the scissor link cross tubes.
2. Slide the ladder-end Maintenance Lock to the side and rotate it stowed position. Use the machine entry ladder to reach the rear Maintenance Lock.
3. Slide the front-end Maintenance Lock to the side and rotate it stowed position.
4. Lower the platform.

Keep clear of the scissor linkage when lowering.

If a Maintenance Lock requires adjustment to stow it correctly, stop the lowering function. Adjust the maintenance lock while stationary, then return to the lowering function.

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.

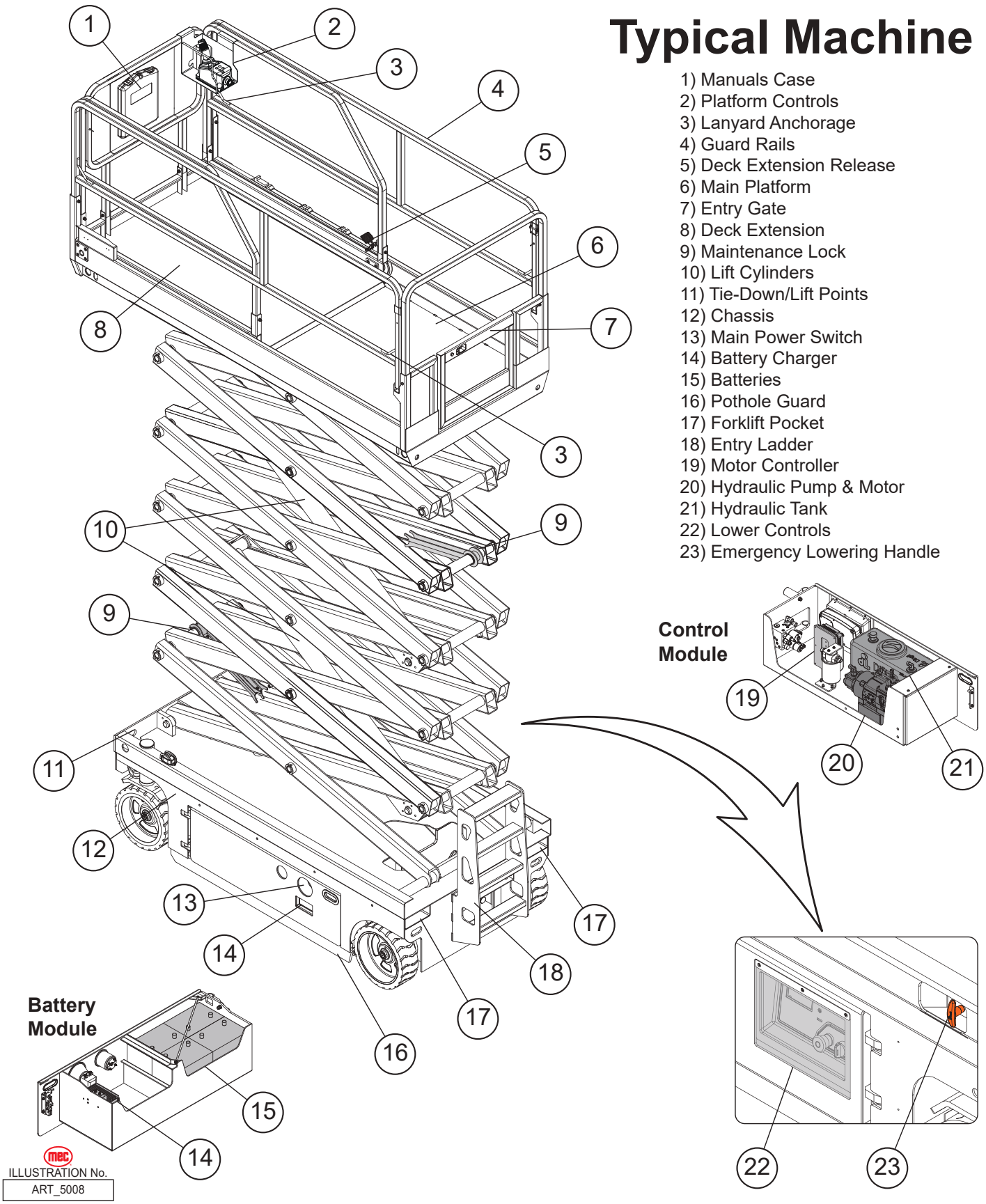
IMMEDIATELY REPORT TO YOUR SUPERVISOR ANY DEFECT OR MALFUNCTION. ANY DEFECT SHALL BE REPAIRED PRIOR TO CONTINUED USE OF THE AERIAL WORK PLATFORM.

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

Primary Machine Components

Typical Machine

1) Manuals Case
2) Platform Controls
3) Lanyard Anchorage
4) Guard Rails
5) Deck Extension Release
6) Main Platform
7) Entry Gate
8) Deck Extension
9) Maintenance Lock
10) Lift Cylinders
11) Tie-Down/Lift Points
12) Chassis
13) Main Power Switch
14) Battery Charger
15) Batteries
16) Pothole Guard
17) Forklift Pocket
18) Entry Ladder
19) Motor Controller
20) Hydraulic Pump & Motor
21) Hydraulic Tank
22) Lower Controls
23) Emergency Lowering Handle



Emergency Systems and Procedures

WARNING

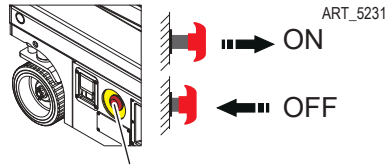
IF THE CONTROL SYSTEM FAILS WHILE THE PLATFORM IS ELEVATED, USE THE EMERGENCY LOWERING PROCEDURE TO SAFELY LOWER THE PLATFORM.

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

Emergency Stop

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.
- Turn switch clockwise to reset.
- Either switch will stop all machine functions.
- Both switches must be reset or machine will not operate.

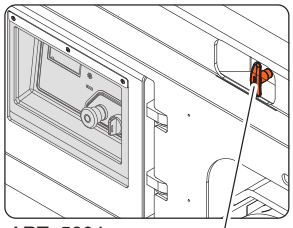


Main Power/ Lower Emergency Stop Switch

Emergency Lowering

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

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



Transport and Lifting Instructions

Safety Information

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

WARNING

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

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

Loading: Free-wheel configuration for Winching or Towing

RUNAWAY HAZARD!

DANGER

After releasing the brakes there is nothing to stop machine travel. Machine will roll freely on slopes.

ALWAYS chock the wheels before manually releasing the brakes.

The machine can be winched or towed short distances at speeds not to exceed:

1930SE	0.5 MPH (0.8 km/h)
2632SE-4555SE	2.5 MPH (4.0 km/h)

Before towing or winching the machine, it is necessary to release the brakes. Reset the brakes after towing or winching.

Brake Release Operation

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

8. If you want to reset the brakes, turn the key switch to the “ground” position.

Driving or Winching onto or off of a Transport Vehicle

WARNING

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

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

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

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

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

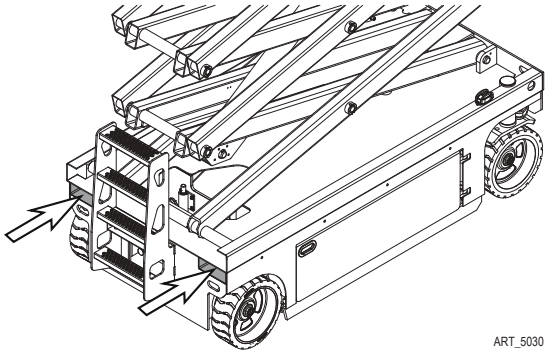
Note: The brakes are automatically released for driving and will automatically apply when the machine stops.

Winching
- Disengage brakes (see Free-wheel configuration for Winching or Towing on page 15).
- Carefully operate the winch to lower the machine down the ramp.
- Chock the wheels and engage the brakes.

CAUTION

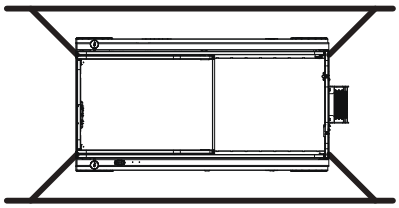
Lifting the machine from the side may result in component damage.

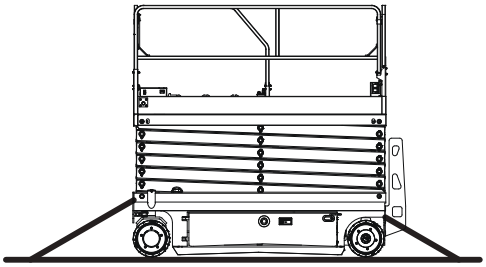
Lifting the machine with a Forklift
- Position the forklift forks in line with the forklift pockets.
- Drive forward to the full extent of the forks.
- Raise the machine 6 in (15 cm) and then tilt the forks back slightly to keep the machine secure.
- Be sure the machine is level when lowering the forks.



ART_5030

Securing to truck or trailer for Transport





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

Lifting Instructions

Only qualified riggers should rig and lift the machine.

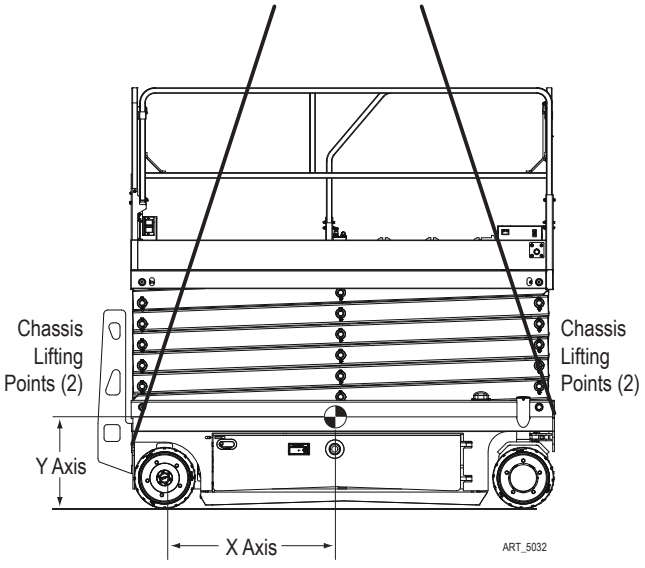
WARNING

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

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

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

Model	X Axis	Y Axis
1930SE	25.5 in (4.8 cm)	23.3 in (59.1 cm)
2632SE	31.7 in (80.6 cm)	22.7 in (57.6 cm)
3232SE	32.7 in (83 cm)	23 in (58.4 cm)
3346SE	32.7 in (83 cm)	26.9 in (68.2 cm)
4046SE	32.7 in (83 cm)	28.4 in (72.1 cm)
4555SE	38.6 in (98 cm)	27.8 in (70.5 cm)



Lift and Support the Machine

DANGER

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

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

- A jack with a lifting capacity of four (4) tons or more.
- Jack stands with a rating of four (4) tons or more.

To Raise the Machine

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

To Lower the Machine

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

Daily Maintenance

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

1) Inspect the Manuals and Decals

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

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

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

2) Perform Pre-operation Inspection

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

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

3) Check the Batteries

- New parts may be required to perform this procedure.

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

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

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

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

4) Check the Hydraulic Oil Level

- New parts may be required to perform this procedure.

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

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

1. Visually inspect the sight of hydraulic oil level from the side of the hydraulic oil tank.
   - **Result:** The hydraulic oil level should be at the mark of the fuel tank. (Refer to the following table).

Add oil if necessary. **Do not overfill.**

Model	Scale Line (L)
1930SE^{AC}	5.5
2632SE	15
3346SE 4046SE	17.5
4555SE	19

Customers shall choose the appropriate hydraulic oil according to the ambient temperature used.

- Original Hydraulic oil specifications: L-HV46

5) Perform Function Tests

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

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

6) Perform 30 Day Service

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

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

1. Perform the following Quarterly Maintenance procedure:
   - Inspect the Tires, Wheels and Castle Nut Torque (See page 23).
2. Perform the following Annual Maintenance procedure:
   - Replace the Hydraulic Tank Return Filter Element (See page 32).

Quarterly Maintenance

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

1) Inspect the Batteries

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

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

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

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

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1. Put on protective clothing and eye wear.
2. Release the battery pack latch and rotate the battery pack out and away from the chassis.
3. Be sure that the battery cable connections are free of corrosion.

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

4. Be sure that the battery retainers and cable connections are tight.
5. Fully charge the batteries. Allow the batteries to rest 24 hours before performing this procedure to allow the battery cells to equalize.
6. Check each battery pack and verify that the batteries are wired correctly.
7. Inspect the battery charger plug and pigtail for damage or excessive insulation wear. Replace as required.
8. Connect the battery charger to a properly grounded 110 - 230V / 50 – 60 Hz single phase AC power supply.
   - **Result:** The charger should operate and begin charging the batteries.
   - **Result:** If, simultaneously, the charger alarm sounds and the LEDs blink, correct the charger connections at the fuse and battery. The charger will then operate correctly and begin charging the batteries.

Note: For best results, use an extension of adequate size with a length no longer than 49 feet or 15 meters.

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

- Total voltage

- Individual voltage of the block battery

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

2) Inspect the Electrical Wiring

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

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

---

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

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

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

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

- Tools maybe be required to perform this procedure.

- New parts maybe required to perform this procedure.

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

1. Check the tire surface and sidewalls for cuts, cracks, punctures and unusual wear.
2. Check each wheel for damage, bends and cracks.
3. Check each bolt for proper torque.

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

4) Test the Emergency Stop

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

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

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

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

5) Test the Key Switch

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

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

1. Pull out the platform and ground red Emergency Stop button to the on position.
2. Turn the key switch to platform control.
3. Check the platform up/down function from the ground controls.
   - **Result:** The machine functions should not operate.
4. Turn the key switch to ground control.
5. Check the machine functions from the platform controls.
   - **Result:** The machine functions should not operate.
6. Turn the key switch to the off position.
   - **Result:** No function should operate.

6) Test the Automotive-style Horn

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

1. Turn the key switch to platform control. Pull out the platform and ground red Emergency Stop button to the on position.
2. Push down the horn button at the platform controls.
   - **Result:** The horn should sound.

7) Test the Drive Brakes

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

Proper brake action is essential to safe machine operation. The drive brake function should operate smoothly, free of hesitation, jerking and unusual noise.

Hydraulically-released individual wheel brakes can appear to operate normally when not fully operational.

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

1. Mark a test line on the ground for reference.
2. Turn the key switch to platform control. Pull out the platform and ground red Emergency Stop button to the on position.
3. Lower the platform to the stowed position.
4. Press the drive function select button.
5. Choose a point on the machine; i.e., contact patch of a tire, as a visual reference for use when crossing the test line.
6. Bring the machine to top drive speed before reaching the test line. Release the function enable switch or the joystick when your reference point on the machine crosses the test line.
7. Measure the distance between the test line and your machine reference point.
   - **Result:** The machine stops within the specified braking distance. No action required.
   - **Result:** The machine does not stop within the specified braking distance.

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)

8) Test the Drive Speed (Stowed Position)

- Tools maybe be required to perform this procedure.

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

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

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

9) Test the Drive Speed (Raised Position)

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

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

1. Create start and finish lines by marking two lines on the ground 40 ft (12.2 m) apart.
2. Turn the key switch to platform control. Pull out the platform and ground red Emergency Stop button to the on position.
3. Press the lift function select button.
4. Press and hold the function enable switch on the joystick.
5. Raise the platform approximately 6.5 ft (2 m) from the ground.
6. Press the drive function select button.
7. Choose a point on the machine; i.e., contact patch of a tire, as a visual reference for use when crossing the start and finish lines.
8. Bring the machine to top drive speed before reaching the start line. Begin timing when your reference point on the machine crosses the start line.
9. Continue at full speed and note the time when your reference point on the machine passes over the finish line. Refer to specifications.

10) Test the Slow Drive Speed

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

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

1. Create start and finish lines by marking two lines on the ground 40 ft (12.2 m) apart.

2. Turn the key switch to platform control. Pull out the platform and ground red Emergency Stop button to the on position.
3. Lower the platform to the stowed position.
4. Press the slow speed select button.
5. Choose a point on the machine; i.e., contact patch of a tire, as a visual reference for use when crossing the start and finish lines.
6. Bring the machine to top drive speed before reaching the start line. Begin timing when your reference point on the machine crosses the start line.
7. Continue at full speed and note the time when your reference point on the machine passes over the finish line. The time is less than 25 sec.

11) Perform Hydraulic Oil Analysis

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

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

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

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

- See page 34 for Test or Replace the Hydraulic Oil.

12) Inspect the Hydraulic Tank Cap Venting System

- Tools maybe be required to perform this procedure.

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

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

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

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

13) Check the Module Tray Latch Components

- Tools maybe be required to perform this procedure.

- New parts maybe be required to perform this procedure.

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

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

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

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

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

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

15) Pothole Limit Switches

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

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

4. Press the drive function select button. Attempt to steer or drive the machine.
   - **Result:** The LED readout screen shows code 18, an alarm sounds, and the machine will not steer or drive. The machine is functioning properly.
   - **Result:** The LED readout screen does not show code 18, the alarm does not sound and the steer and drive functions operate. Adjust or replace the down limit switch.
5. Lower the platform to the stowed position and remove the block under the right pothole guard.
6. Repeat this procedure beginning with step 2 for the left pothole guard.
7. Lower the platform to the stowed position, remove the block under the left pothole guard.
8. Turn off the machine.

Semi-annual Maintenance

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

1) Test the Platform Overload System

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

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

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

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

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

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

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

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

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

---

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

overload system.

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

2) Replace the Hydraulic Tank Breather Cap

- Tools maybe be required to perform this procedure.

The hydraulic tank is a vented-type tank. The breather cap has an internal air filter that can become clogged or, over time, can deteriorate. If the breather cap is faulty or improperly installed, impurities can enter the hydraulic system which may cause component damage. Extremely dirty conditions may require that the cap be inspected more often.

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

Annual Maintenance

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

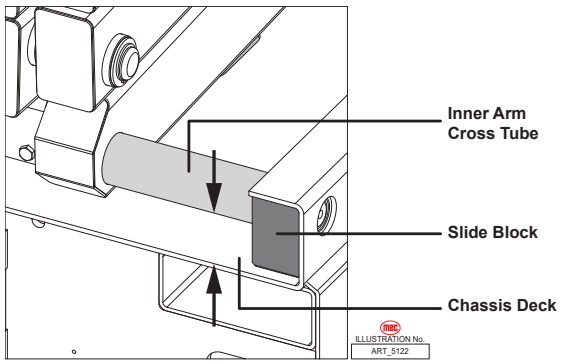
1) Check the Scissor Arm Wear Pads

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

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

Perform this procedure with the platform in the stowed position.

1. Measure the distance between the number one arm cross tube and the chassis deck at the ground controls side of the non-steer end of the machine.
2. Measure the distance between the number one arm cross tube and the chassis deck at the battery pack side of the non-steer end of the machine. (See below for machine measurements.)
3. Apply a thin layer of dry film lubricant to the area of the chassis where the scissor arm wear pads make contact.



For 1930AC:

- **Result:** The measurement is 0.9 in (23 mm) or more. Proceed to step 3.
- **Result:** The measurement is less than 0.9 in / 23 mm. Replace both wear pads.

For 2632SE-4555SE:

- **Result:** The measurement is 1.34 in (34 mm) or more. Proceed to step 3.
- **Result:** The measurement is less than 1.34 in (34 mm). Replace both wear pads.

2) Replace the Hydraulic Tank Return Filter Element

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

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

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

NOTICE

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

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

Biennial Maintenance

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

1) Test or Replace the Hydraulic Oil

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

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

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

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

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

1. Disconnect the battery pack from the machine.

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

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

WARNING **Bodily injury hazard. Spraying hydraulic oil can penetrate and burn skin. Loosen hydraulic connections very slowly to allow the oil pressure to dissipate gradually. Do not allow oil to squirt or spray.**

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

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

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

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

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

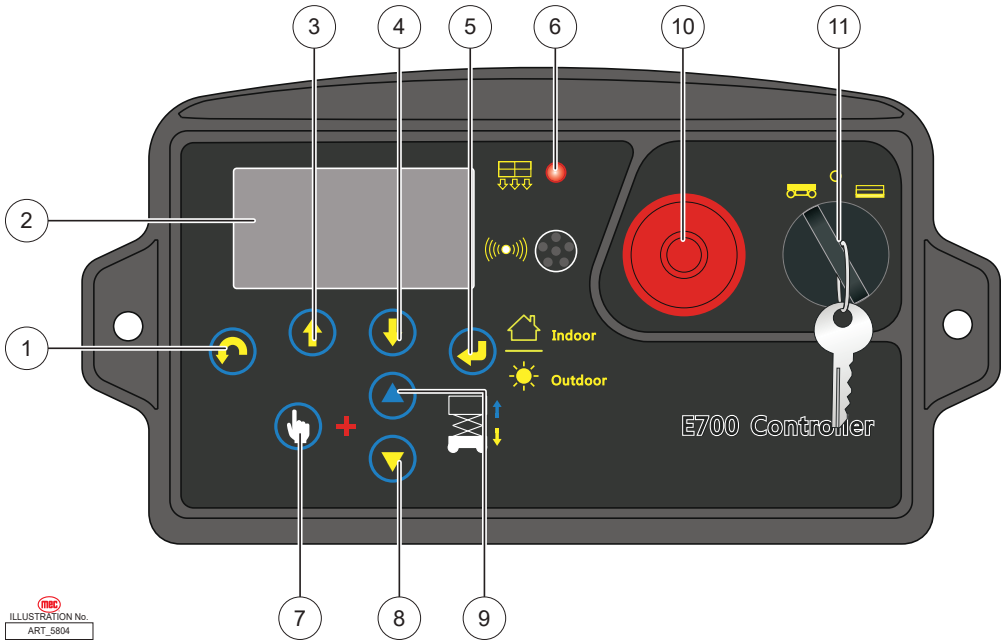
13. Install the hydraulic pump inlet line into the tank. Install the fitting onto the pump and torque.
14. Install the hydraulic pump return line into the tank. Install the fitting onto the hydraulic filter head and torque.
15. Fill the tank with hydraulic oil until the fluid is full in the hydraulic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

WARNING

Component damage hazard. The pump can be damaged if operated without oil. Be careful not to empty the hydraulic tank while in the process of filling the hydraulic system. Do not allow the pump to cavitate.

Lower Controls

ECU Overview



WARNING **ALWAYS be aware of the machine's position and of your surroundings before activating any control function.**

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

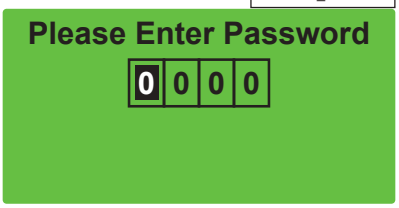
Selecting Indoor/Outdoor Mode:

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

- **Indoor**
  - Select to allow unrestricted height when not exposed to wind.
- **Outdoor**
  - Select to limit the maximum height when exposed to wind.

ECU Setting and Calibrations

ILLUSTRATION No.
ART_6019



ECU Setting and Calibrations

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

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

ECU Setting Table

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

Main Menu	Items	Value

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

Calibration

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

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

Requirements after replacing ECU:

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

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

Load Sensing Calibration with No-Load

WARNING

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

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

1. With no load on the platform, have the platform stowed and on flat level ground.
2. Enter the “ECU Settings”. (See page 37)
3. Select “3. Calibration”
4. Go to “1. No Load Sensing.” Press and hold the “Enter“ button for 5 seconds. **SEE WARNING!**
5. The machine starts to calibrate automatically. The Overload Indicator light turns on then goes out indicating that the calibration is complete.

Load Sensing Calibration with Full-Load

WARNING

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

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

Note: Load used for calibration needs to be slightly higher than rated load. Chart shows suggested weight for when calibrating full load.

Machine	Weight
1930SE, 2632SE, 3232SE	550 lbs (250 kg)
3346SE	800 lbs (363 kg)
4046SE	700 lbs (317 kg)
4555SE	600 lbs (272 kg)

1. With the machine in the stowed state on a flat level surface, have the maximum rated load on the platform.
2. Enter the “ECU Settings”. (See page 37)
3. Select “3. Calibration”
4. Select “2. Full Load Sensing.” Press and hold the “Enter“ button for 5 seconds. **SEE WARNING ABOVE!**
5. The machine starts to calibrate automatically. The Overload indicator light turns on and then goes out indicating that the calibration is complete.

Tilt Sensing

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

Angle Sensing

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

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

Height Calibration

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

OL Descent High

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

1. Select the “5. OL Descent High.”
2. Keep the machine in the stowed state.

3. Press the “Enter“ button to save the current valve.

Up Limit

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

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

Down Limit

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

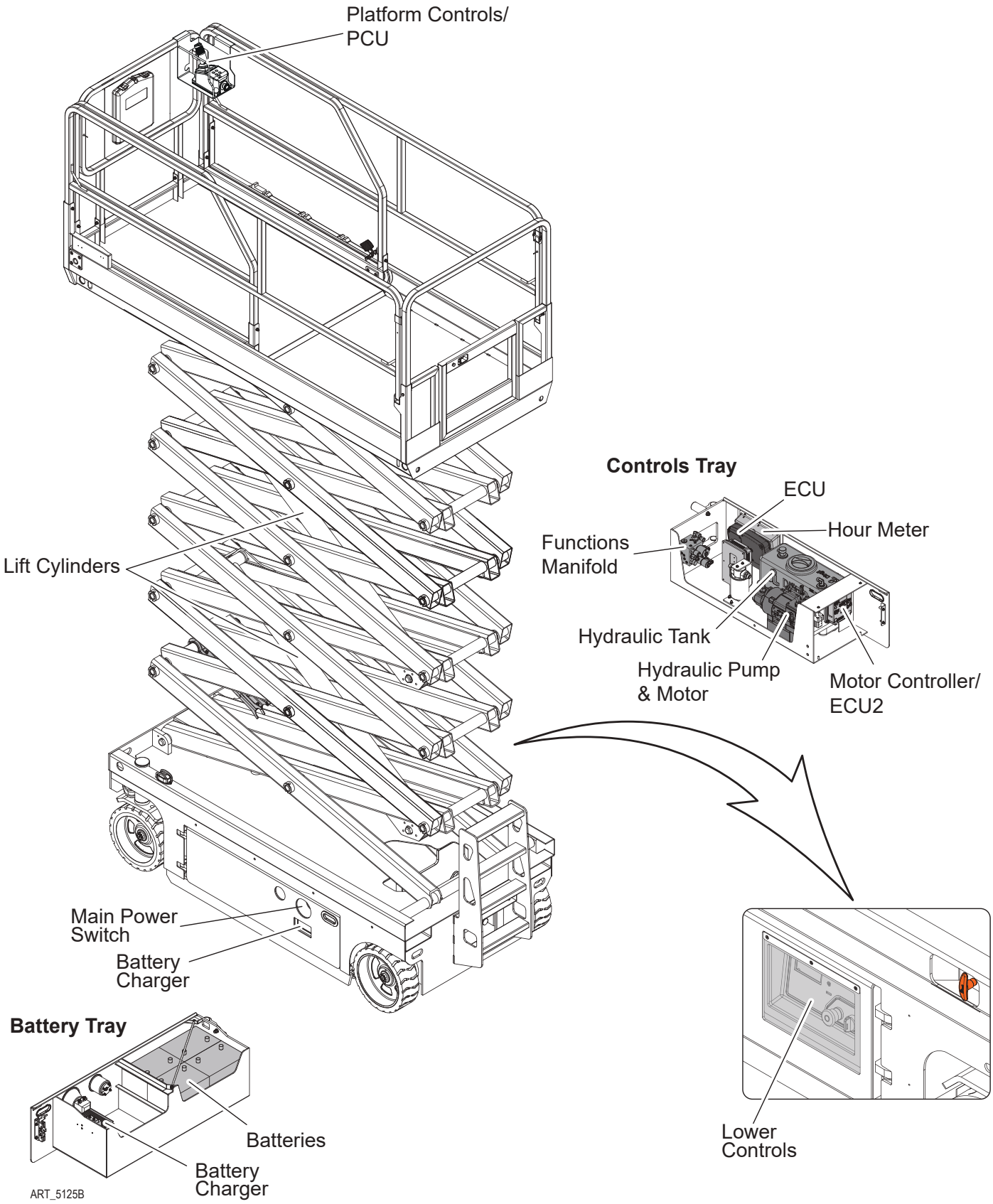
1. Select the “7. Down Limit.”
2. Keep the machine in the stowed state.
3. Press the “Enter“ button to save the current valve.

Outdoor Limit Height

This is set to 10% of max height.

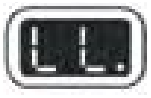
1. Select the “8. Outdoor Limit Height.”
2. Lift the platform the maximum outdoor height. then lower 10%.
3. Press the “Enter“ button to save the current valve.

Control Component Locations



Fault Codes

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



Art_5533

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

List of Fault Codes			
Code	**Description**	**Lift Reaction**	**Failure Reason & Solution**
11	BMS Communication Fault (Lithium battery equipped only)	Warning Only	Lithium battery BMS CAN bus communication failure, only alarm. • **Solution:** 1. Check whether the CAN bus communication between the lithium battery and the machine is normal. 2. Replace the lithium battery.
12	Chassis Up or Down Switch ON	Disable Chassis Control	ECU panel lift buttons failure, ground control operation is prohibited. • **Solution:** 1. Check ECU lift switch.
18	Pothole Guard Fault	Disable Lifting and Driving	• If it faults with platform elevated: 1. The left or right pothole is obstructed. 2. Pothole limit switches stuck or needs to be adjusted. • If it faults when platform is stowed: 1. Check down limit switch (1930SE to 4555SE). 2. Check angle sensor (Micro13 and 19). Calibrate height.
31	Pressure Sensor 1 Fault	Disables All Motion	1. Check the pressure sensor power supply and its wiring. 2. Check whether the signal input of ECU pressure sensor 1 is normal. (Check ECU No. 45 pin) 3. Possible pressure sensor failure.
32	Angle Sensor Fault	Disables All Motion	1. Check the angle sensor power supply and its wiring. 2. Check whether the ECU angle sensor signal input is normal. (ECU 23 pin) 3. Possible angle sensor problem.
35	Pressure Sensor 2 Fault	Disables All Motion	1. Check the pressure sensor power supply and its wiring to ECU. 2. Check whether the signal input of ECU pressure sensor 2 is normal. (Check ECU 46 pin) 3. Possible pressure sensor failure.
36	Battery Discharged Alarm	Drive speed limit	It indicates that the current battery power is low. In order to prevent the battery from over-discharging, the system will prohibit the lifting function and limit the driving speed. • **Solution:** 1. The battery needs to be charged in time.
37	Battery Drain Shutdown	Disables All Motion	The battery needs to be charged in time.
42	Platform Left Button ON	Warning Only	The operation handle enable, steer right or steer left button is triggered during power on. • **Solution:** 1. Operate the machine 3s after the system is powered on. 2. Replace the joystick handle.
43	Platform Right Button ON	Warning Only	
46	Platform Enable Button ON	Disable Platform Control	
47	Joystick Not In Neutral	Drive speed limit	The joystick is not in the neutral position during power on. 1. Check or replace joystick.

List of Fault Codes			
Code	**Description**	**Lift Reaction**	**Failure Reason & Solution**
52	Drive Forward Coil Fault	Disable Lifting and Driving	Check ECU Option settings Electric drive models do not have drive coils. 1. Set the correct option code for the machine (for specific operation steps and model codes of each model.
53	Drive Reverse Coil Fault	Disable Lifting and Driving	
54	Lift Up Coil Fault	Disable Lifting and Driving	The platform lifting solenoid valve has open circuit failure, and the lifting and driving functions are prohibited. • **Solution:** 1. Check the solenoid valve coil and its wiring at the valve block.
55	Lift Down Coil Fault	Disable Lifting and Driving	Lift solenoid valve open circuit failure when the platform is lowered. • **Solution:** 1. Check the lowering solenoid valve coil and its wiring at the lift cylinder valve block.
56	Steer Right Coil Fault	Disable Lifting and Driving	Right/left steer solenoid valve open circuit failure. • **Solution:** 1. Check the right turn/left turn solenoid valve coil and its wiring at the valve block.
57	Steer Left Coil Fault	Disable Lifting and Driving	
59	Parallel Coil Fault	Disable Lifting and Driving	1. Check ECU options settings. Electric drive models are not equipped with parallel coils.
68	Battery Low Voltage	Disables All Motion	It is reminded that the battery power is lower than the preset value, and the machine needs to be charged in time to protect the battery from over- discharge and damage.
80	Platform Load is over 80%	Warning Only	Prompt that the load of the current exceeds 80% / 90% / 99% of the rated load, only an alarm does not limit the action.
90	Platform Load is over 90%	Warning Only	
99	Platform Load is over 99%	Warning Only	
PCU: LL ECU: 100	Machine out of level	Disable Lifting and Driving	Indicates that the machine is in a tilted state in excess of maximum tilt angle value. Lifting and driving operations are prohibited. You need to descend to the lower limit and drive to a solid level surface to work at heights.
PCU: OL ECU: 101	Platform Overloaded	Prohibition of lifting and driving; The platform is forbidden to descend after exceeding the “overload descent height”	It prompts that the current platform load exceeds the rated load. In order to ensure the safe use of the equipment, the system will prohibit the lifting and driving functions at this time, and it is forbidden to descend above the overloaded descending height.
102	Restore Parameters to Default	Warning Only	/
103	Battery is draining	Warning Only	/
104	Motor Controller Fault	Warning Only	Press Yellow Down arrow for the 4-digit fault code. See Motor Controller fault codes listed later in this section.
105	BMS Alarm	Prohibit lifting, limit driving speed	The lithium battery management system has an alarm, and the control system will prohibit the lifting function and limit the driving speed at this time. Disregard if not Lithium
106	BMS Fault	Disable All Motion	Lithium battery management system fails, in order to ensure safety, the control system will prohibit all actions. Disregard if not lithium.

List of Fault Codes			
Code	**Description**	**Lift Reaction**	**Failure Reason & Solution**
PCU: n1 ECU: 1xxx	Right Drive Motor Controller Fault	Controller Dependent	Motor controller processing.
PCU: n2 ECU: 2xxx	Left Drive Motor Controller Fault	Controller Dependent	Motor controller processing.
PCU: n3 ECU: 3xxx	Pump Motor Controller Fault	Controller Dependent	Motor controller processing.
PCU: UP	Platform up limit position	Warning Only	The system prompts that the platform has reached the upper limit and only gives an alarm.

Motor Controller Fault Codes

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

Code	Fault name	Solution
X008	WATCHDOG	Replace the motor controller.
X017	LOGIC FAILURE #3	Replace the motor controller.
X018	LOGIC FAILURE #2	Replace the motor controller.
X019	LOGIC FAILURE #1	1. Check the battery voltage. 2. Replace the motor controller.
X028	PUMP VMN LOW	
X029	PUMP VMN HIGH	
X030	VMN LOW	1. Motor wiring problem. 2. Check for shorts inside motor. 3. Possible motor-controller problem.
X031	VMN HIGH	1. Motor wiring problem. 2. Check for shorts inside motor. 3. Possible motor-controller problem.
X037	CONTACTOR CLOSED	1. Contactor points stuck closed. 2. The large wire of contactor is short-circuited to the positive terminal. 3. Possible controller problem.
X038	CONTACTOR OPEN	1. Contactor points broken or unable to close. 2. No power to signal wire to contactor or not connected. 3. Big fuse is broken. 4. Possible motor controller problem.
X052	PUMP I=0 EVER	
X053	STBY I HIGH	Motor controller internal current sensor hardware problem, replace the motor controller.
X060	CAPACITOR CHARGE	1. Check for mis-wired motor controller large terminals. 2. Key Switch output shorted. 3. Possible motor controller failure.
X062 X065	TH. PROTECTION MOTOR TEMPERAT.	1. Wait to cool down. 2. If motor controller is cool, replace the motor controller. Wait for the motor to cool down.
X066	BATTERY LOW	Charge the battery.
X074	DRIVER SHORTED	1. The contactor coil is shorted. 2. The coil of the contactor has B+ before it should. 3. Possible motor controller failure.
X075	CONTACTOR DRIVER	1. Contactor coil is broken. 2. Coil wiring error. 3. Possible motor controller problem.

Code	Fault name	Solution
X078	VACC NOT OK	
X079	INCORRECT START	
X080	FORW + BACK	Both directions powered, check the ECU.
X086	PEDAL WIRE KO	
X152	IIC BUS ERROR	Replace the motor controller.
X153	ENCODER ERROR XX	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X154	OUT MISMATCHXX	Replace motor controller.
X155	SP MISMATCHXX	Replace motor controller.
X157	INPUT MISMATCHXX	Replace motor controller.
X158	NOT RDY DRV.POW.	Replace motor controller.
X159	HVIL FAIL	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X160	SENS BAT TEMP KO	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X161	RPM HIGH	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X162	BUMPER STOP	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X163	ED SLIP MISMATCH	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X164	PWM ACQ. ERROR	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X168	SIN/COS D.ERR XX	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X169	ENCODER D.ERR XX	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X170	WRONG KEY VOLT.	1. Detect whether there is a sudden change in voltage. 2. Check motor control wiring.
X171	ACQUIRING A.S.	1. The encoder is broken. 2. Motor stuck more than a certain time. 3. Replace the motor controller.
X172	ACQUIRE ABORT	1. The encoder is broken. 2. Motor stuck more than a certain time. 3. Replace the motor controller.
X173	ACQUIRE END	4. The encoder is broken. 5. Motor stuck more than a certain time. 6. Replace the motor controller.
X174	OFFSET SPD.SENS.	Contact ZAPI engineer.
X175	SPEED FB. ERROR	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X176	HOME SENS.ERR XX	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X177	COIL SHOR. EB.	1. Check if the brake wiring is short circuit. 2. Replace the motor controller.

Code	Fault name	Solution
X178	MOTOR TEMP. STOP	1. Whether the motor temperature is actually too high. 2. Whether the motor temperature sensor wiring open circuit. 3. Replace the motor controller.
X179	STEER SENSOR KO	Check voltage and wiring of steering potentiometer.
X180	OVERLOAD	1. Problem with motor/encoder wiring. 2. The motor has excessive resistance to rotation. 3. Possible motor controller problem.
X181	WRONG ENC SET	1. The motor encoder is broken. 2. Motor unable to turn. 3. Possible motor controller problem.
X185	TILLER ERROR	
X186	WAIT MOT.P STILL	
X187	LIFT+LOWER	
X188	INT. CANBUSKO	Replace the motor controller.
X189	PUMP INC START	
X190	PUMP VMN NOT OK	
X191	PUMP VACC NOT OK	
X192	PUMP VACC RANGE	
X193	SMARTDRIVER KO	1. Check the brake positive wiring. 2. Check A13 of drive-motor controller, check A3 of pump-motor controller. 3. Parameter in controller is abnormal. 4. Replace the motor controller.
X194	AUX BATT. SHORT.	1. Parameter setting problem. 2. Check if the brake positive wiring and voltage are normal.
X195	POS. EB. SHORTED	1. Check the brake positive wiring. 2. Check A13 of drive-control Check A13 of pump control. 3. Motor controller parameter setting problem. 4. Replace the motor controller.
X196	MOT.PHASE SH.	1. Check whether motor wiring is normal, whether there is leakage to case or water in motor. 2. Possible motor controller problem.
X197	WRONG SLAVE VER.	Flash the correct software.
X198	M/S PAR CHK MISM	Replace Motor controller.
X199	PARAM TRANSFER	Wait a few seconds and power on again.
X200	VDC OFF SHORTED	1. Check the battery. 2. Check motor controller connections.
X201 **X202**	TORQUE PROFILE	Replace motor controller.
	VDC LINK OVERV.	1. Check for abnormal regenerative braking. 2. One of the external capacitors is damaged. 3. Replace motor controller.
X204	BRAKE RUN OUT	
X205	EPS RELAY OPEN	
X206	INIT VMN HIGH	1. Motor wiring problem. 2. Check whether the motor voltage is leaking to case. 3. Possible motor-controller problem.
X207	INIT VMN LOW	1. Motor wiring problem. 2. Check whether the motor is leaking. 3. Possible motor-controller problem.
X208	EEPROM KO	
X209	PARAM RESTORE	Restart the machine.
X210	WRONG RAM MEM.	1. Power on key switch again. 2. After power on, the problem is still there, replace the motor controller.
X211	STALL ROTOR	1. Excessive resistance to motor shaft rotation. 2. Motor mechanical problem.

Code	Fault name	Solution
X212	POWER MISMATCH	Replace Motor controller.
X213	POSITIVE LC OPEN	1. Contactor coil positive wiring problem. 2. Possible motor controller problem.
X214	EVP COIL OPEN	1. Check the wiring to valve coils. 2. Possible motor controller problem.
X215	EVP DRIV. SHORT.	1. Check the wiring to valve coils. 2. Possible motor controller problem.
X216	EB. COIL OPEN	1. Check for brake coil open circuit. 2. Check if the wiring is open circuit to brake coil. 3. Replace the motor controller.
X217	PEB NOT OK	1. Check the brake positive wiring. 2. Check A13 of drive-motor controller, check A3 of pump-motor controller. 3. Parameter in controller is abnormal. 4. Replace the motor controller.
X218	SENS MOT TEMP KO	1. The actual temperature is too high, let cool. 2. Motor temperature sensor problem or wiring problem.
X220	VKEY OFF SHORTED	1. Check the battery. 2. Possible motor controller problem.
X221	HANDBRAKE	
X223	COIL SHOR.MC	1. Contactor coil short circuit. 2. The contactor signal wire is short-circuited. 3. Possible motor controller problem.
X224	WAITING FOR NODE	Check another node.
X224	WAITING FOR NODE	
X224	WAITING FOR NODE	
X226	VACC OUT RANGE	
X227	HW FAULT	Replace the motor controller.
X228	TILLER OPEN	
X229	HW FAULT EB.	Replace the motor controller.
X230	LC COIL OPEN	1. The coil wire is disconnected. 2. Possible motor controller Problem.
X231	PUMP I NO ZERO	
X232	CONT. DRV. EV	1. Check the ECU options settings. 2. Possible motor controller problem.
X233	POWERMOS SHORTED	1. Motor wiring problem. 2. Check for motor voltage leaking to case. 3. Possible motor-controller problem.
X234	DRV. SHOR. EV	1. Check the ECU options. 2. Replace the motor controller.
X235	CTRAP THRESHOLD	Replace the motor controller.
X236	CURRENT GAIN	Replace the motor controller.
X237	ANALOG INPUT	Replace the motor controller.
X238	HW FAULT EV.	
X239	CONTROLLER MISM.	Check ECU version.
X240	EVP DRIVER OPEN	1. Check the wiring to valve block. 2. Possible motor controller problem.
X241	COIL SHOR. EVAUX	1. Check the wiring to valve block. 2. Replace the motor controller.
X242	OPEN COIL EV.	1. Check the wiring to valve block. 2. Replace the motor controller.
X243	THROTTLE PROG.	
X244	WARNING SLAVE	Check the specific fault of the slave-controller.
X245	IQMISMATCHED	Replace motor controller.

Code	Fault name	Solution
X246	EB. DRIV.OPEN	Replace motor controller.
X247	DATA ACQUISITION	Replace motor controller.
X248	NO CAN MSG.	1. Interference problem, check CAN resistance setting, interference level. 2. For other software setting problems, you need to contact MEC Aerial Work Platforms.
X249	CHECK UP NEEDED	Change the “CHECK UP DONE” parameter to ON.
X250	THERMIC SENS. KO	Replace the motor controller.
X251	WRONG SET BAT.	1. The parameter “battery type” is set incorrectly. 2. External voltage is too low or too high.
X253	FIELD ORIENT. KO	Replace motor controller.
X254	EB. DRIV.SHRT.	1. Check if the brake wiring is shorted. 2. The motor-controller is broken.

Hydraulic Schematic - 1930SE

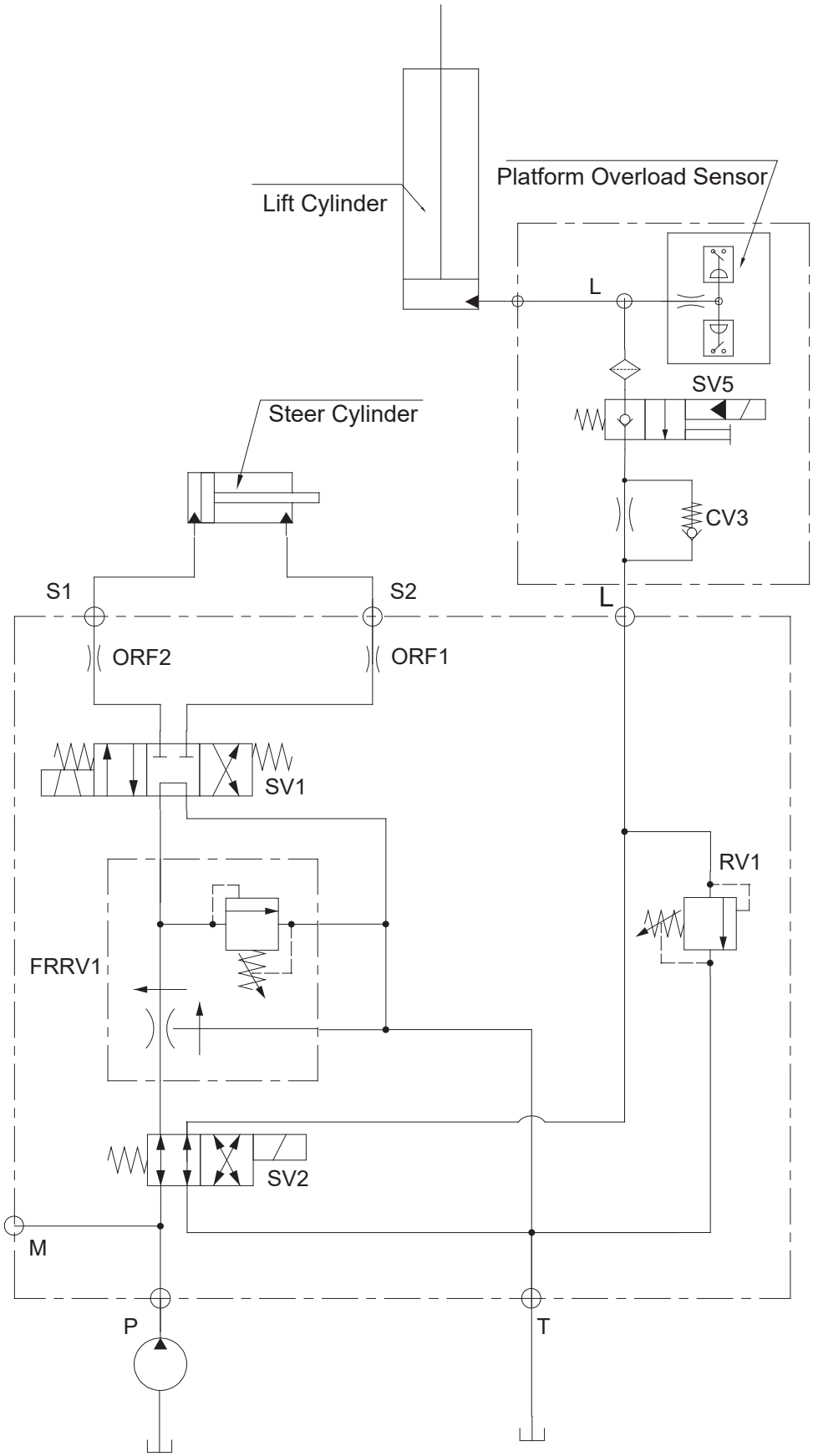
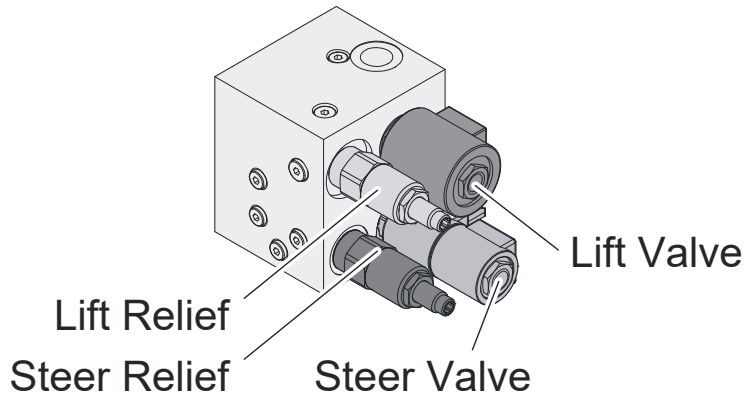


ILLUSTRATION No. ART_5140

1930SE HYDRAULIC SCHEMATIC

Hydraulic Components - 1930SE



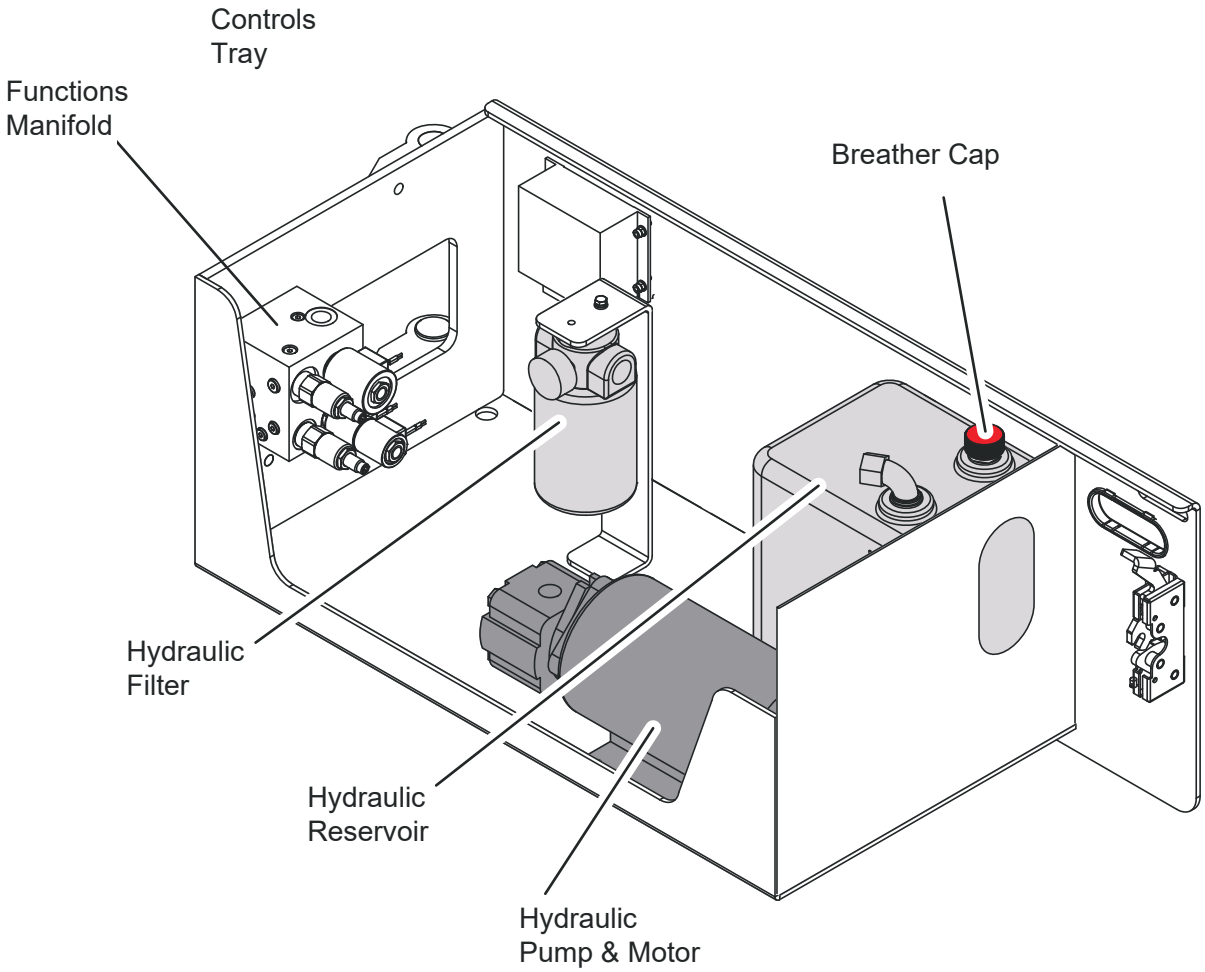


ILLUSTRATION No. ART_5136

1930SE HYDRAULIC COMPONENTS

Hydraulic Schematic - 2632SE-4555SE

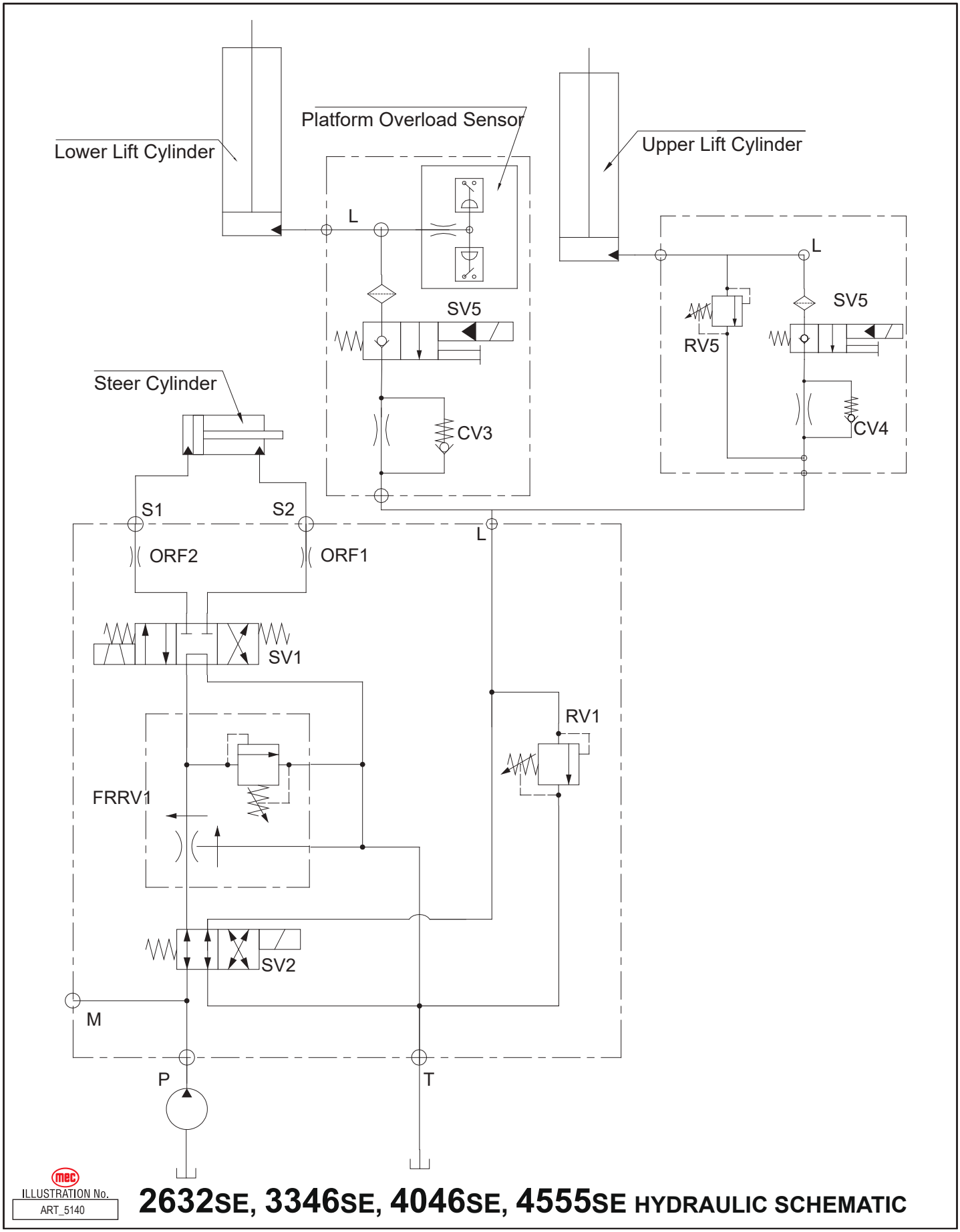


ILLUSTRATION No. ART_5140

2632SE, 3346SE, 4046SE, 4555SE HYDRAULIC SCHEMATIC

Hydraulic Components - 2632SE-4555SE

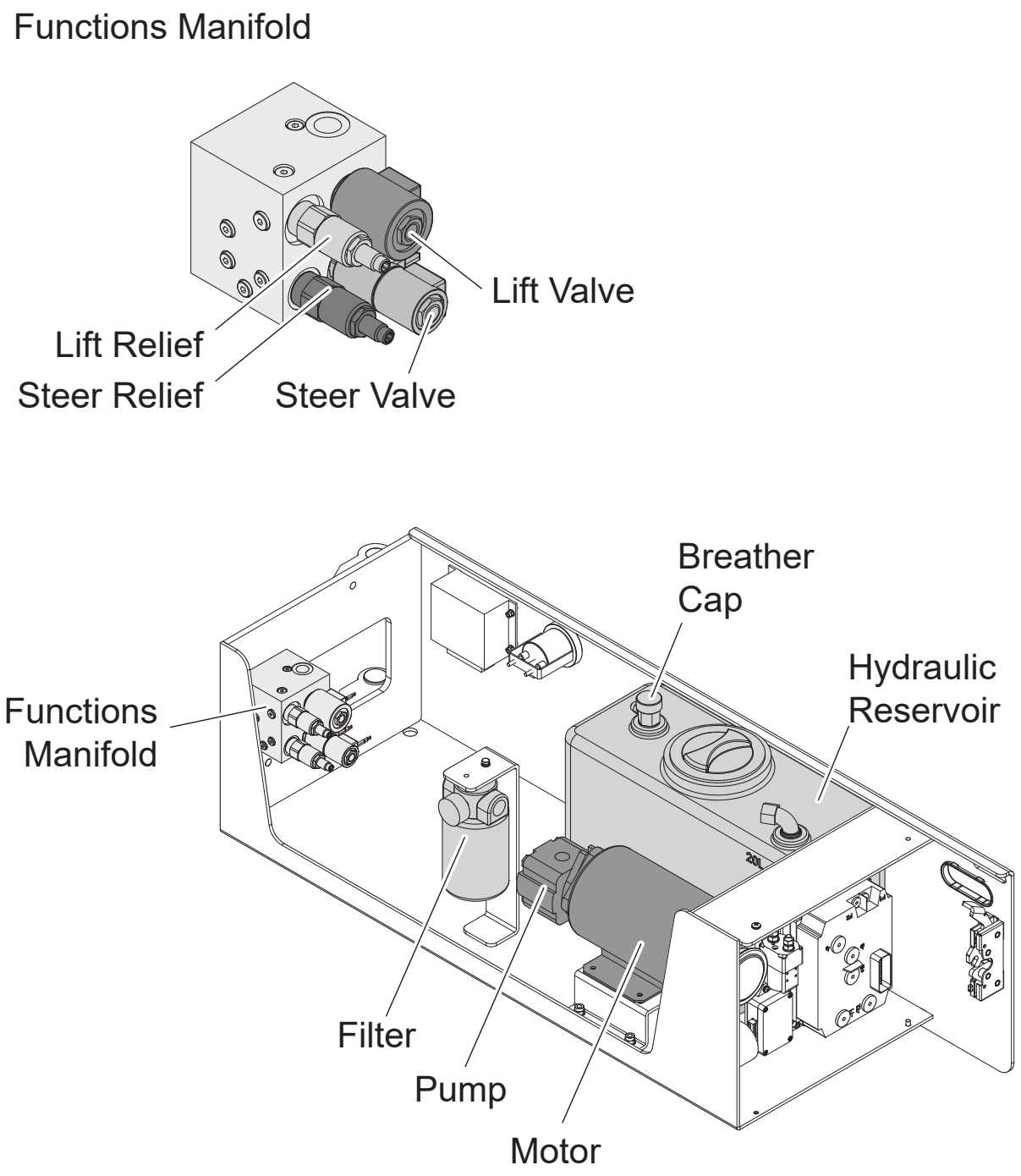


ILLUSTRATION No. ART_5136

2632SE, 3346SE, 4046SE, 4555SE HYDRAULIC COMPONENTS

Function Valves

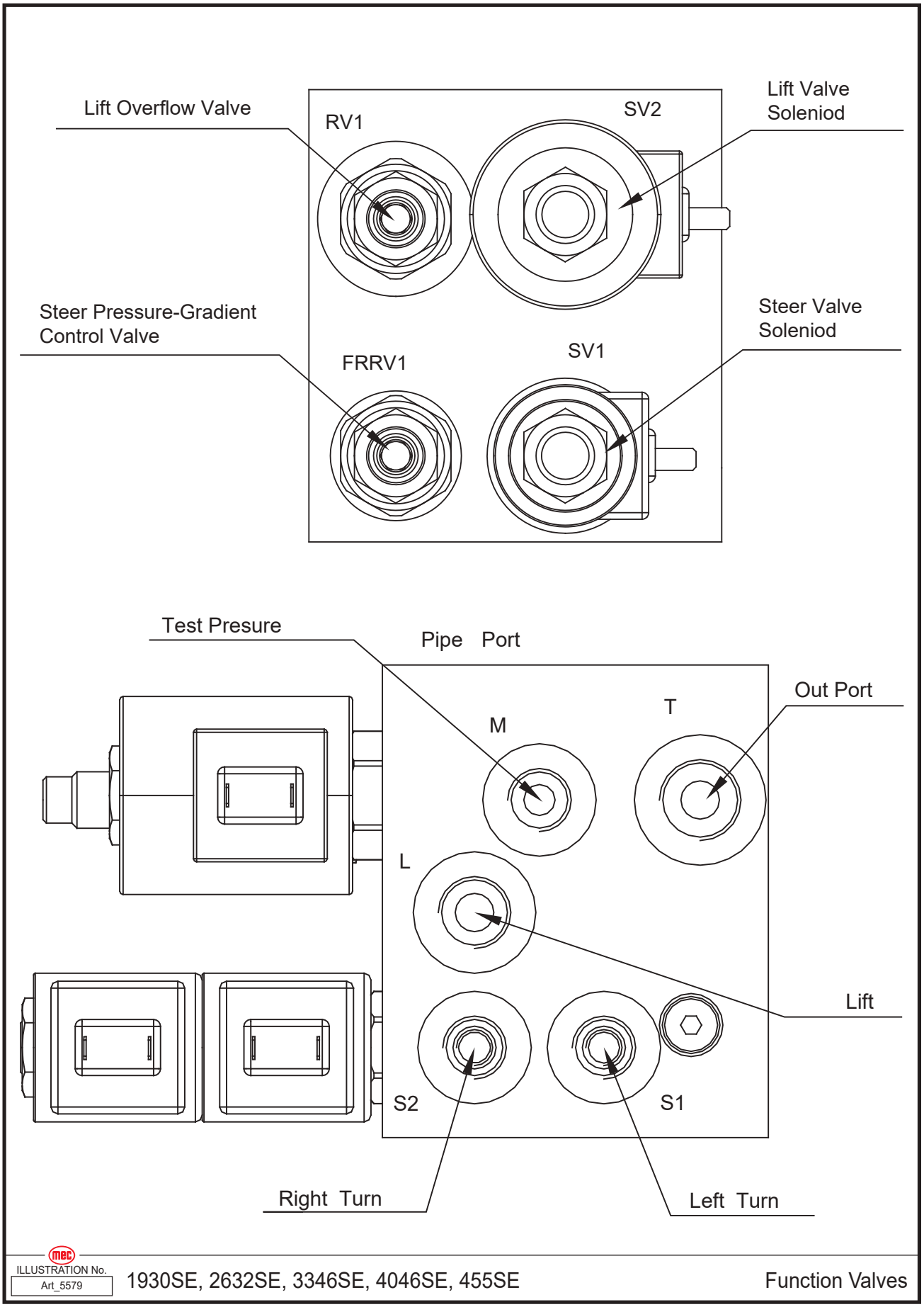
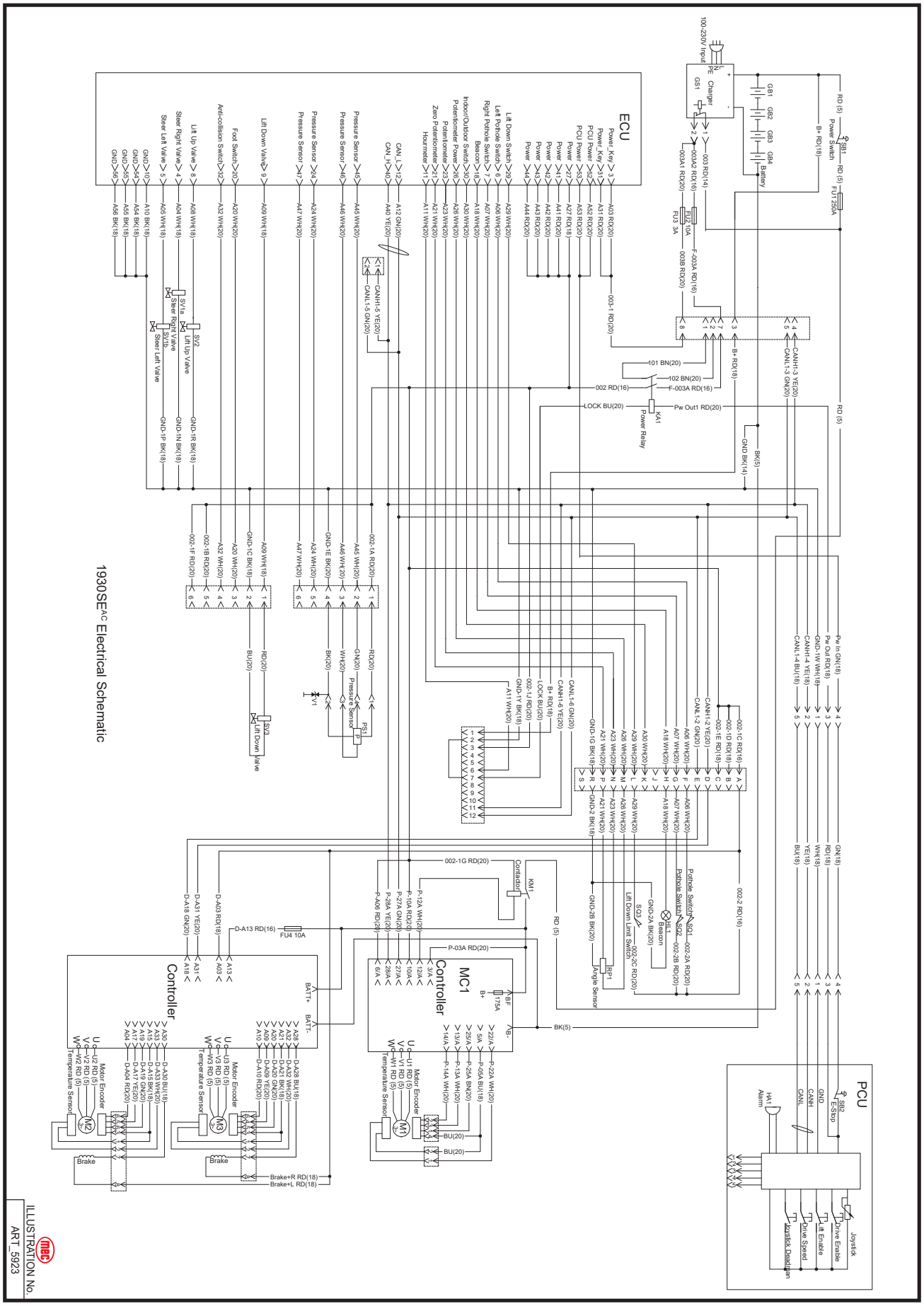


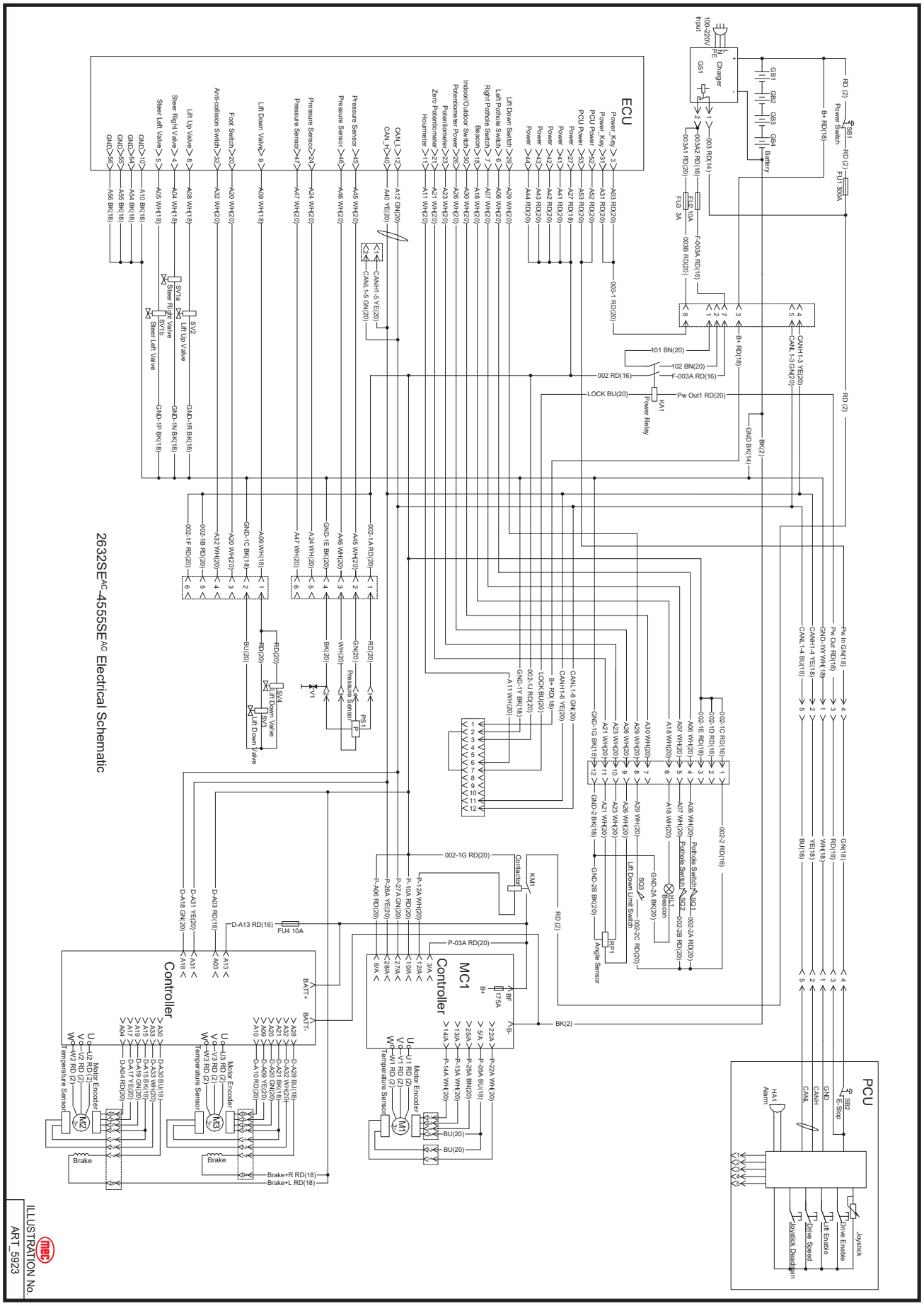
ILLUSTRATION No. Art_5579

1930SE, 2632SE, 3346SE, 4046SE, 455SE Function Valves

Electrical Schematic - 1930SE



Electrical Schematic - 2632SE-4555SE



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Parts Introduction

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

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

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

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

Steer Linkage and Wheels Assembly, 1930SE

Check Serial Number

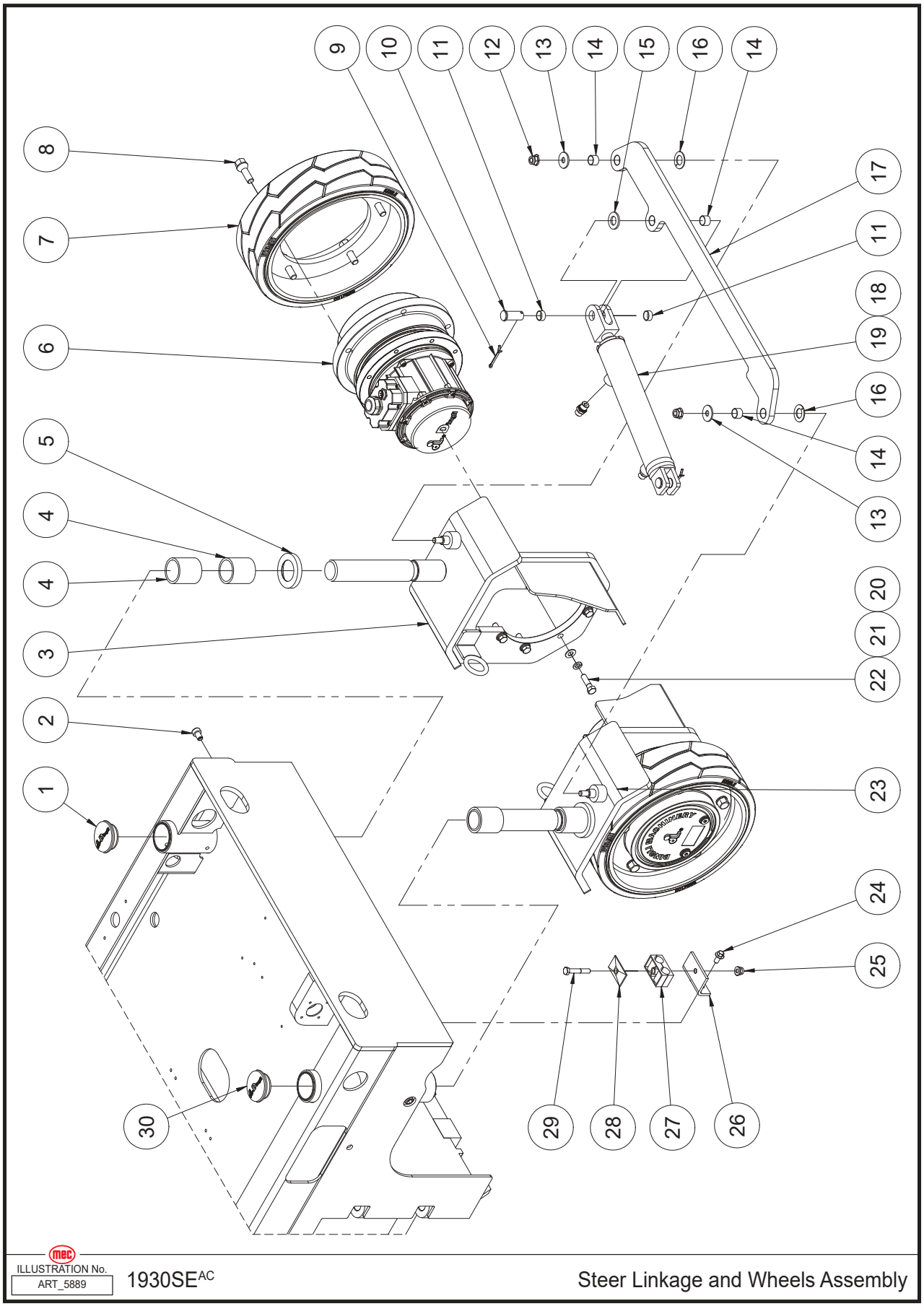


ILLUSTRATION No. ART_5889

1930SE^{AC}

Steer Linkage and Wheels Assembly

Item	Part Number	Description	Qty.
1	43554	Cover	1
2	41794	Screw	2
3	46320	Steer Yoke Weldment	1
4	43556	Bearing	4
5	43557	Washer	2
6	46233	Drive Motor Assembly	2
--	46234	Motor	1
--	46235	Reducer	1
--	46236	Brake	1
7	46321	Wheel	2
8	46238	Bolt	10
9	43563	Cotter Pin	2
10	41321	Pin	2
11	41225	Bearing	4
12	50311	Nut NNYL M10-1.50 Flange	2
13	53375	WSHR M10 Flat Fender Washer	2
14	41210	Bearing	4
15	43564	Washer	2
16	41222	Bearing	2
17	44553	Tie Rod	1
18	43076	Straight Fitting	2
19	41593	Steer Cylinder Assembly	1
--	41594	Seal Kit	1
20	53317	WSHR 3/8 Standard Flat Narrow Washer	14
21	53316	WSHR 3/8 Spring Washer	14
22	53447	Screw HHCS 3/8-16 × 1 1/2	14
23	46322	Steer Yoke Weldment	1
24	53194	Screw HHCS M08-1.25 × 16 Serrated Flange	2
25	50313	Nut NNYL M08-1.25 Flange	1
26	41425	Hose Clamp Support	1
27	46240	Hose Clamp	1
28	46241	Base Plate	1
29	50251	Screw HHCS M08-1.25 × 65	1
30	43554	Cover	1

Steer Linkage and Wheels Assembly, 1930SE

Check Serial Number

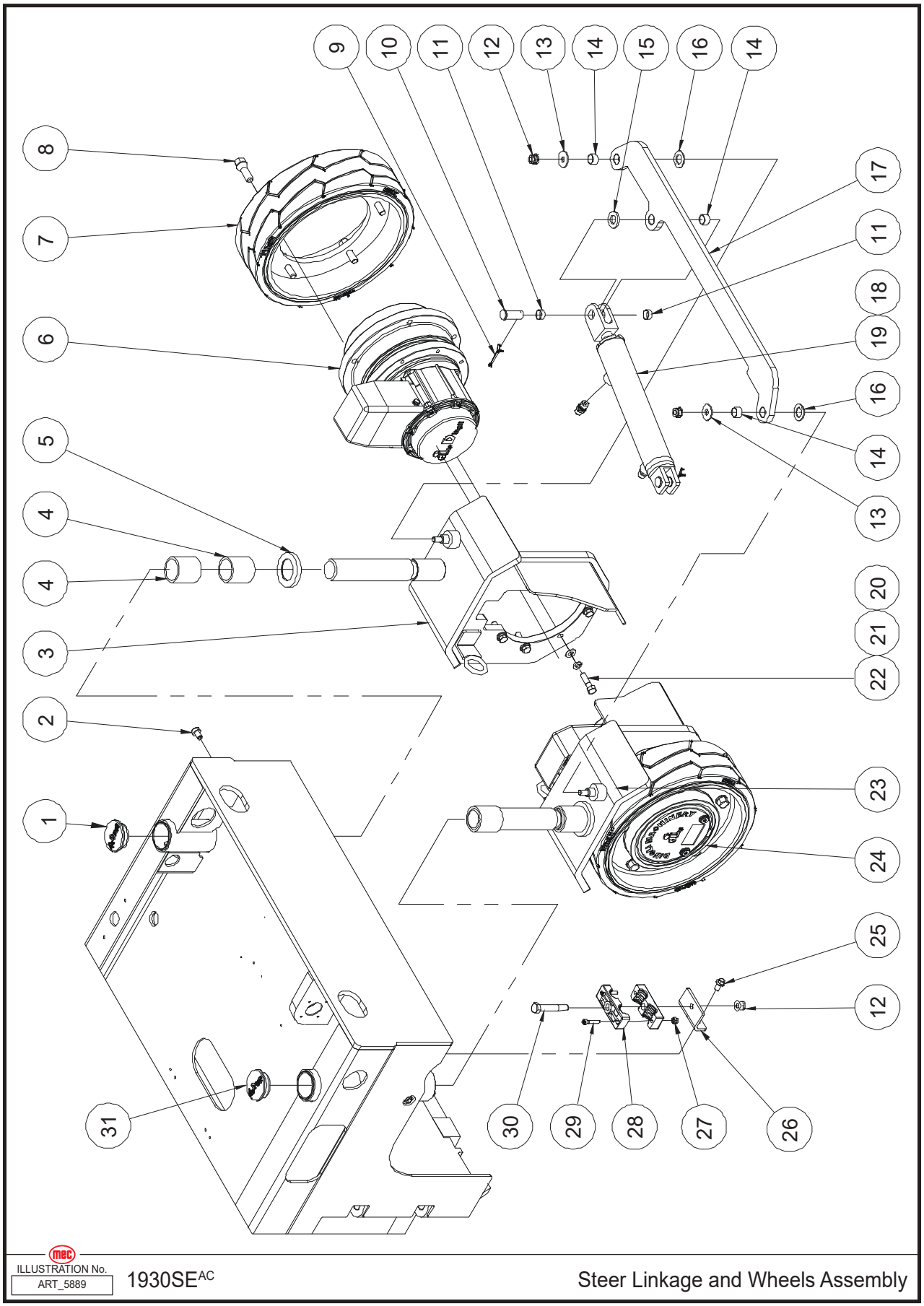


ILLUSTRATION No. ART_5889

1930SE^{AC}

Steer Linkage and Wheels Assembly

Item	Part Number	Description	Qty.
1	43554	Cover	1
2	41794	Screw	2
3	46320	Steer Yoke Weldment	1
4	43556	Bearing	4
5	43557	Washer	2
6	45418	Left Drive Motor Assembly	1
--	47486	Left Motor Cover	1
--	47483	Drive Motor Assembly (Includes Motor, Reducer, and Brake)	1
--	47490	Motor (With Brake)	1
--	46235	Reducer	1
--	46236	Brake	1
7	46321	Wheel	2
8	53509	Screw HHCS M12-1.50 × 40	10
9	43563	Cotter Pin	2
10	41321	Pin	2
11	41225	Bearing	4
12	50311	Nut NNYL M10-1.50 Flange	3
13	53375	WSHR M10 Flat Fender Washer	2
14	41210	Bearing	4
15	43564	Washer	2
16	41222	Bearing	2
17	44553	Tie Rod	1
18	43076	Straight Fitting	2
19	41593	Steer Cylinder Assembly	1
--	41594	Seal Kit	1
20	53317	WSHR 3/8 Standard Flat Narrow Washer	14
21	53316	WSHR 3/8 Spring Washer	14
22	53447	Screw HHCS 3/8-16 × 1 1/2	14
23	46322	Steer Yoke Weldment	1
24	45419	Right Drive Motor Assembly	1
--	47485	Right Motor Cover	1
--	47483	Drive Motor Assembly (Includes Motor, Reducer, and Brake)	1
--	47490	Motor (With Brake)	1
--	46235	Reducer	1
--	46236	Brake	1
25	53194	Screw HHCS M08-1.25 × 16 Serrated Flange	2
26	44343	Hose Clamp Support	1
27	50047	Nut NNYL M06-1.00	2
28	45313	Hose Clamp	2
29	53207	Screw SHCS M06-1.00 × 30	2
30	45420	Bolt	1
31	43554	Cover	1

Steer Linkage and Wheels Assembly, 2632SE-4555SE

Check Serial Number

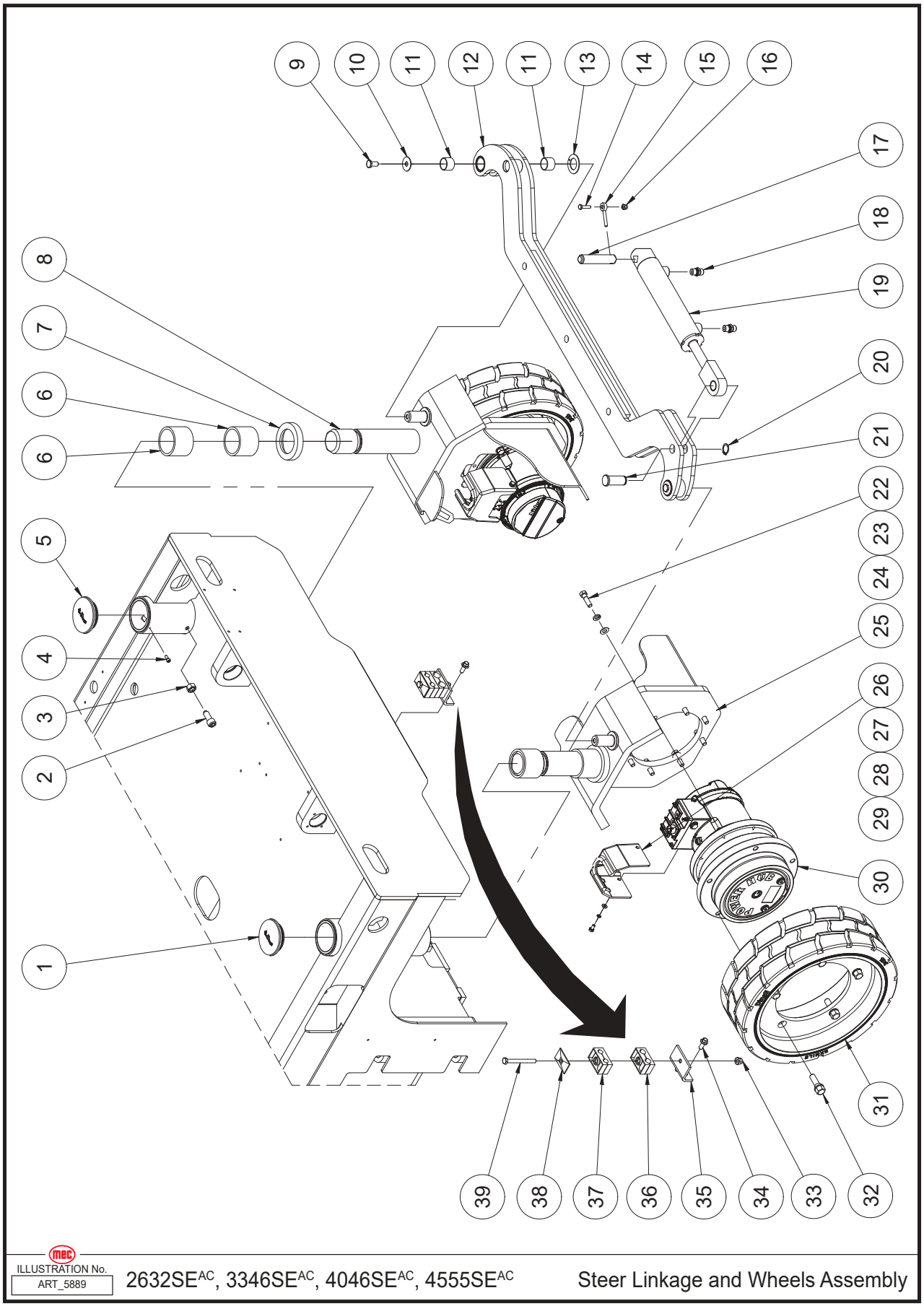


ILLUSTRATION No. ART_5889

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Steer Linkage and Wheels Assembly

Item	Part Number	Description	Qty.
1	41010	Cover	1
2	41376	Screw	2
3	50590	Nut NHEX M12-1.75	2
4	53116	Screw SHCS M05-0.80 × 12	2
5	41010	Cover	1
6	41011	Bearing	4
7	41013	Washer	2
8	46351	Steer Yoke Weldment	1
9	44926	Pin	2
10	44927	Washer	2
11	41046	Bearing	4
12	41391	Tie Rod Weldment (2632SE)	1
	41393	Tie Rod Weldment (3346SE, 4046SE)	1
	41394	Tie Rod Weldment (4555E)	1
13	41019	Bearing	2
14	50117	Screw HHCS M06-1.00 × 25	1
15	42449	Pin	1
16	50568	Nut NNYL M06-1.00 Flange	1
17	41007	Pin	1
18	43076	Straight Fitting	2
19	44928	Steer Cylinder Assembly	1
--	41388	Seal Kit	1
20	43574	Circlips	1
21	41009	Pin	1
22	53447	Screw HHCS 3/8-16 × 1 1/2	14
23	53316	WSHR 3/8 Spring Washer	12
24	53317	WSHR 3/8 Standard Flat Narrow Washer	12
25	46352	Steer Yoke Weldment	1
26	46353	Motor Cover	1
27	50000	WSHR M06 Standard Flat Washer	4
28	53046	WSHR M06 Spring Washer	4
29	53104	Screw HHCS M06-1.00 × 12	4
30	46354	Drive Motor Assembly	2
--	46355	Reducer	1
--	46356	Motor	1
--	46357	Brake	1
31	46358	Wheel	2
32	46238	Wheel Bolt	10
33	50313	Nut NNYL M08-1.25 Flange	1
34	53257	Screw HHCS M08-1.25 × 20 Serrated Flange	2
35	41425	Hose Clamp Support	1
36	46240	Hose Clamp	1
37	41416	Hose Clamp	1
38	41415	Base Plate	1
39	53401	Screw HHCS M08-1.25 × 90	1

Steer Linkage and Wheels Assembly, 2632SE-4555SE

Check Serial Number

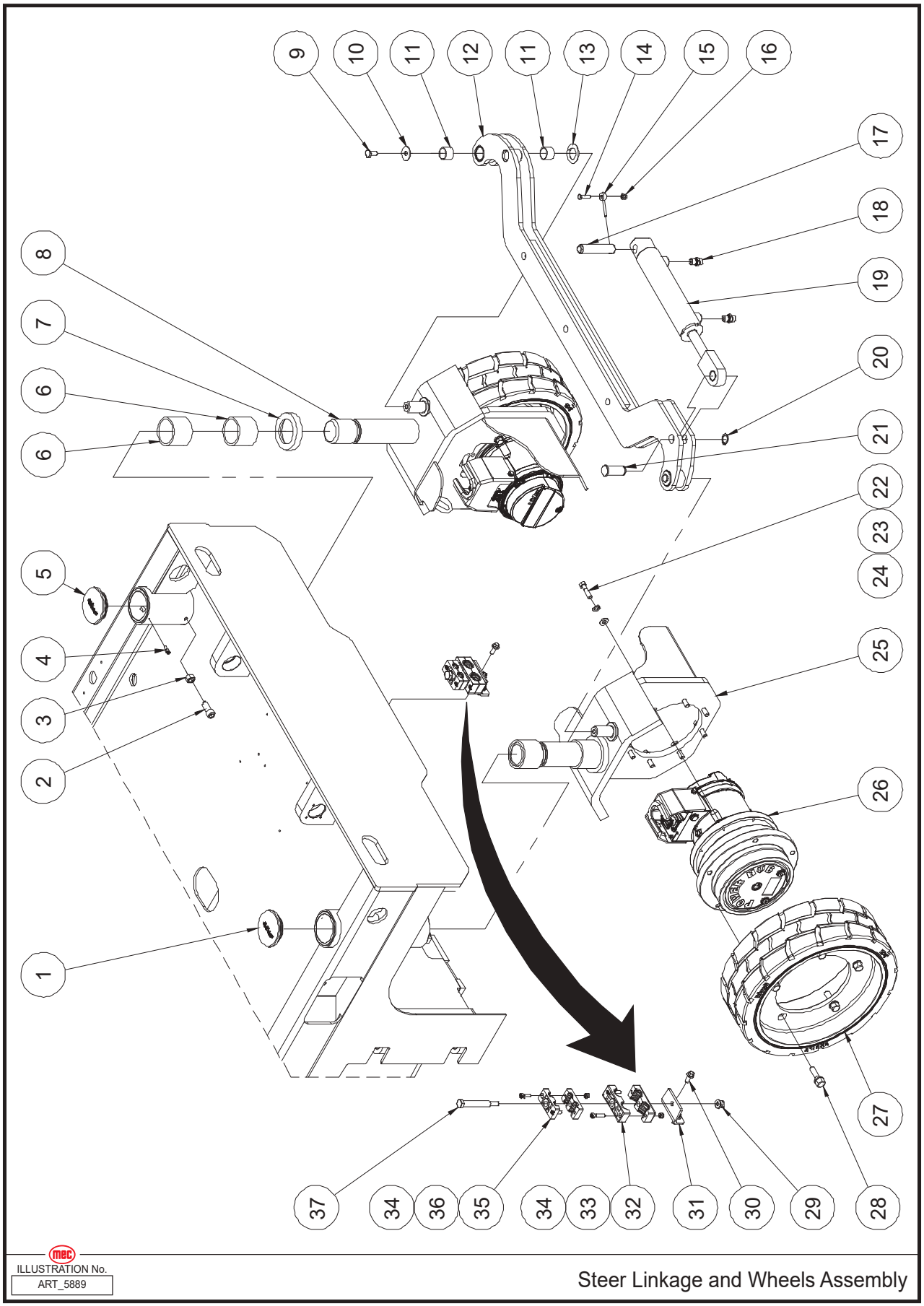


ILLUSTRATION No.
ART_5889

Steer Linkage and Wheels Assembly

Item	Part Number	Description	Qty.
1	41010	Cover	1
2	41376	Screw	2
3	50590	Nut NHEX M12-1.75	2
4	53116	Screw SHCS M05-0.80 × 12	2
5	41010	Cover	1
6	41011	Bearing	4
7	41013	Washer	2
8	46351	Steer Yoke Weldment (2632SE, 3346SE, 4046SE, 4555SE)	1
	45306	Steer Yoke Weldment (3232SE)	1
9	44926	Pin	2
10	44927	Washer	2
11	41046	Bearing	4
12	41391	Tie Rod Weldment (2632SE)	1
	45307	Tie Rod Weldment (3232SE)	1
	41393	Tie Rod Weldment (3346SE, 4046SE)	1
	41394	Tie Rod Weldment (4555SE)	1
13	41019	Bearing	2
14	50117	Screw HHCS M06-1.00 × 25	1
15	42449	Pin	1
16	50568	Nut NNYL M06-1.00 Flange	1
17	41007	Pin	1
18	43076	Straight Fitting	2
19	44928	Steer Cylinder Assembly	1
--	41388	Seal Kit	1
20	43574	Circlips	1
21	41009	Pin	1
22	53447	Screw HHCS 3/8-16 × 1 1/2	14
23	53316	WSHR 3/8 Spring Washer	12
24	53317	WSHR 3/8 Standard Flat Narrow Washer	12
25	46352	Steer Yoke Weldment (2632SE, 3346SE, 4046SE, 4555SE)	1
	45308	Steer Yoke Weldment (3232SE)	1
26	46354	Drive Motor Assembly (Includes Reducer, Motor, Brake and Motor Cover)	2
--	46355	Reducer	1
--	45309	Drive Motor Assembly (Includes Motor, Brake and Motor Cover)	1
--	46356	Motor (KDS) (With Brake)	1
	45310	Motor (HS) (With Brake)	1
--	46357	Brake (KDS)	1
	45311	Brake (HS)	1
--	46353	Motor Cover (KDS)	1
	45312	Motor Cover (HS)	1
27	46358	Wheel	2
28	53509	Screw HHCS M12-1.50 × 40	10
29	50311	Nut NNYL M10-1.50 Flange	1
30	53257	Screw HHCS M08-1.25 × 20 Serrated Flange	2
31	44343	Hose Clamp Support	1

32	45313	Hose Clamp	2
33	53207	Screw SHCS M06-1.00 × 30	2
34	50047	Nut NNYL M06-1.00	4
35	45314	Hose Clamp	2
36	53124	Screw SHCS M06-1.00 × 20	2
37	45315	Bolt	1

Pothole Protection Assembly, 1930SE

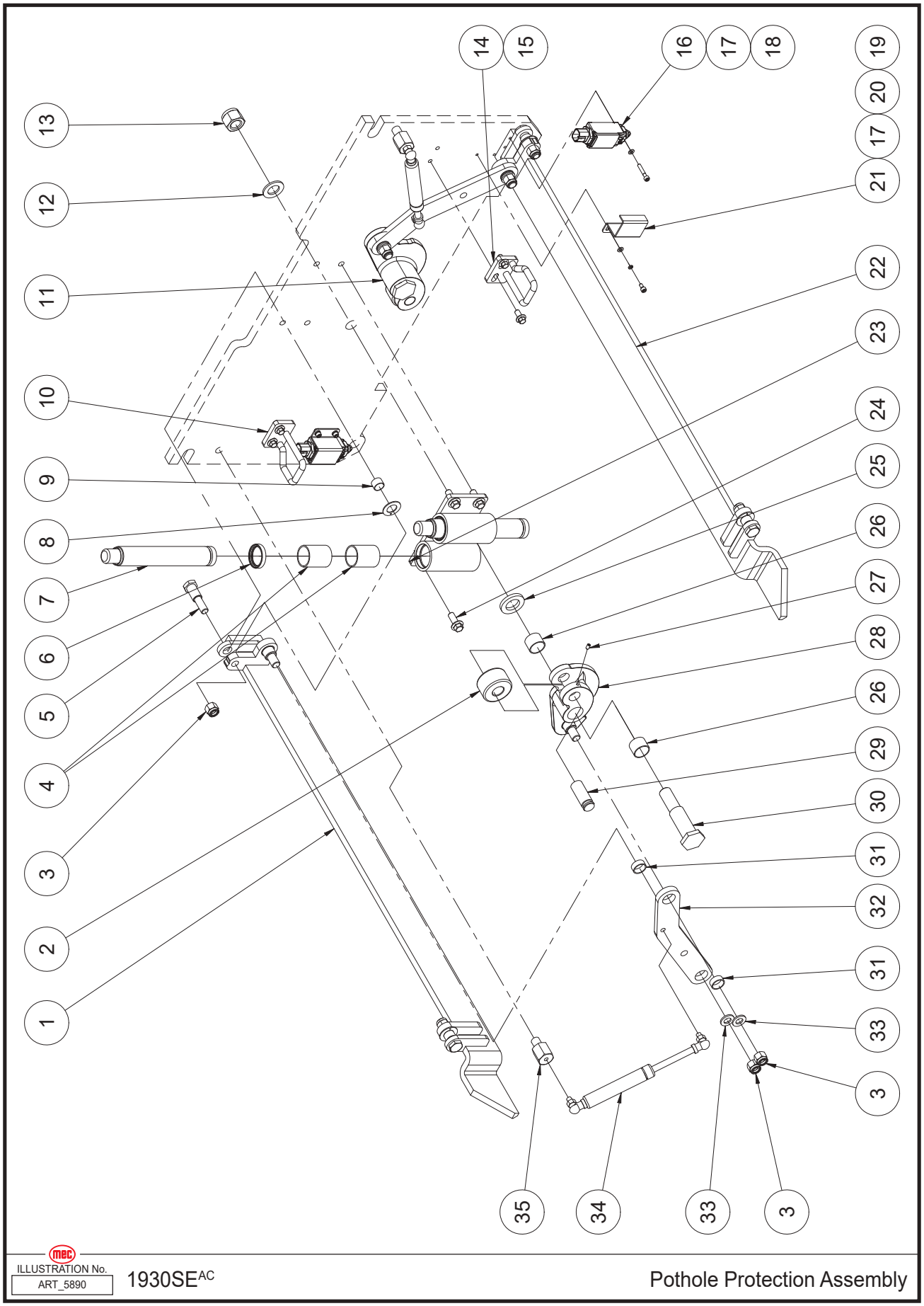


ILLUSTRATION No. ART_5890

1930SE^{AC}

Pothole Protection Assembly

Item	Part Number	Description	Qty.
1	44888	Pothole Guard Weldment	1
2	41049	Roller	2
3	50050	Nut NNYL M12-1.75	8
4	43568	Bearing	4
5	41604	Pin	4
6	44889	Seal	2
7	43569	Pothole Hole Pusher Assembly	2
8	41222	Bearing	4
9	41210	Bearing	4
10	41807	Lock Clasp	1
11	47093	Linkage Weldment	1
12	50005	WSHR M20 Standard Flat Washer	2
13	50052	Nut NNYL M20-2.50	2
14	41808	Lock Clasp	1
15	53194	Screw HHCS M08-1.25 × 16 Serrated Flange	4
16	46242	Limit Switch	2
17	53038	WSHR M05 Standard Flat Washer	8
18	53171	Screw SHCS M05-0.80 × 30	4
19	53173	Screw SHCS M05-0.80 × 10	4
20	53043	WSHR M05 Spring Washer	4
21	41035	Switch Cover	2
22	44890	Pothole Guard Weldment	1
23	44891	Pothole Guide	1
24	50429	Screw HHCS M10-1.50 × 25 Serrated Flange	4
25	41040	Washer	2
26	41046	Bearing	4
27	53283	Set Screw M05-0.80 × 10 Cone Point	2
28	47092	Linkage Weldment	1
29	41048	Pin	2
30	41047	Pin	2
31	41214	Bearing	4
32	44892	Pothole Link Plate	2
33	50003	WSHR M12 Standard Flat Washer	4
34	41045	Gas Shock	2
35	43573	Gas Shock Strut	2

Pothole Protection Assembly, 2632SE-4555SE

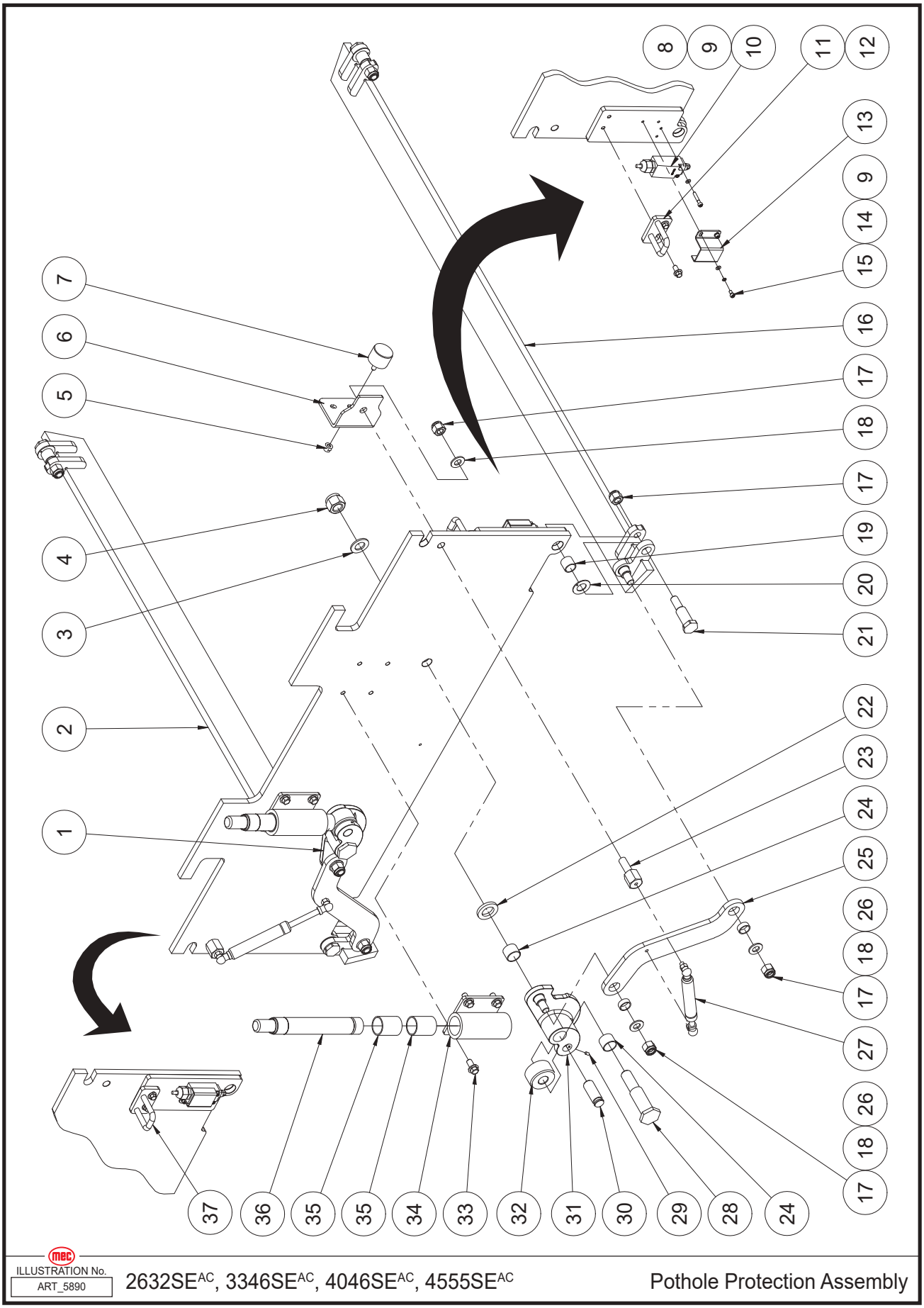


ILLUSTRATION No. ART_5890

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Pothole Protection Assembly

Item	Part Number	Description	Qty.
1	47092	Linkage Weldment (2632SE, 3232SE, 3346SE, 4046SE)	1
	41030	Linkage Weldment (4555SE)	1
2	45316	Pothole Guard Weldment (2632SE, 3232SE, 3346SE, 4046SE)	1
	46360	Pothole Guard Weldment (4555SE)	1
3	50005	WSHR M20 Standard Flat Washer	2
4	50052	Nut NNYL M20-2.50	2
5	50313	Nut NNYL M08-1.25 Flange (4555SE)	2
6	44931	Mounting Plate (4555SE)	2
7	44932	Bumper (4555SE)	2
8	53171	Screw SHCS M05-0.80 × 30	4
9	53043	WSHR M05 Spring Washer	8
10	46242	Limit Switch	2
11	41033	Lock Clasp	1
12	53194	Screw HHCS M08-1.25 × 16 Serrated Flange	4
13	41035	Switch Cover	2
14	53038	WSHR M05 Standard Flat Washer	4
15	53173	Screw SHCS M05-0.80 × 10	4
16	45317	Pothole Guard Weldment (2632SE, 3232SE, 3346SE, 4046SE)	1
	46362	Pothole Guard Weldment (4555SE)	1
17	50303	Nut NNYL M14-2.00	10
18	53049	WSHR M14 Standard Flat Washer	6
19	41037	Bearing	4
20	41038	Bearing	4
21	41039	Pin	4
22	41040	Washer	2
23	41044	Gas Spring Strut	2
24	41046	Bearing	4
25	41396	Pothole Link Plate (2632SE)	2
	45318	Pothole Link Plate (3232SE)	2
	41398	Pothole Link Plate (3346SE, 4046SE)	2
	41042	Pothole Link Plate (4555SE)	2
26	41214	Bearing	4
27	41045	Gas Spring	2
28	41047	Pin	2
29	53283	Set Screw M05-0.80 × 10 Cone Point	2
30	41048	Pin	2
31	47093	Linkage Weldment (2632SE, 3232SE, 3346SE, 4046SE)	1
	41041	Linkage Weldment (4555SE)	1
32	41049	Roller	2
33	53433	Screw HHCS M10-1.50 × 20 Serrated Flange	8
34	41395	Pothole Guide (2632SE, 3232SE)	2
	41050	Pothole Guide (3346SE, 4046SE, 4555SE)	2
35	43568	Bearing	4
36	44934	Pothole Hole Pusher Assembly (2632SE, 3232SE, 3346SE, 4046SE)	2
	44935	Pothole Hole Pusher Assembly (4555SE)	2
37	41031	Lock Clasp	1

Battery Pack Module, 1930SE

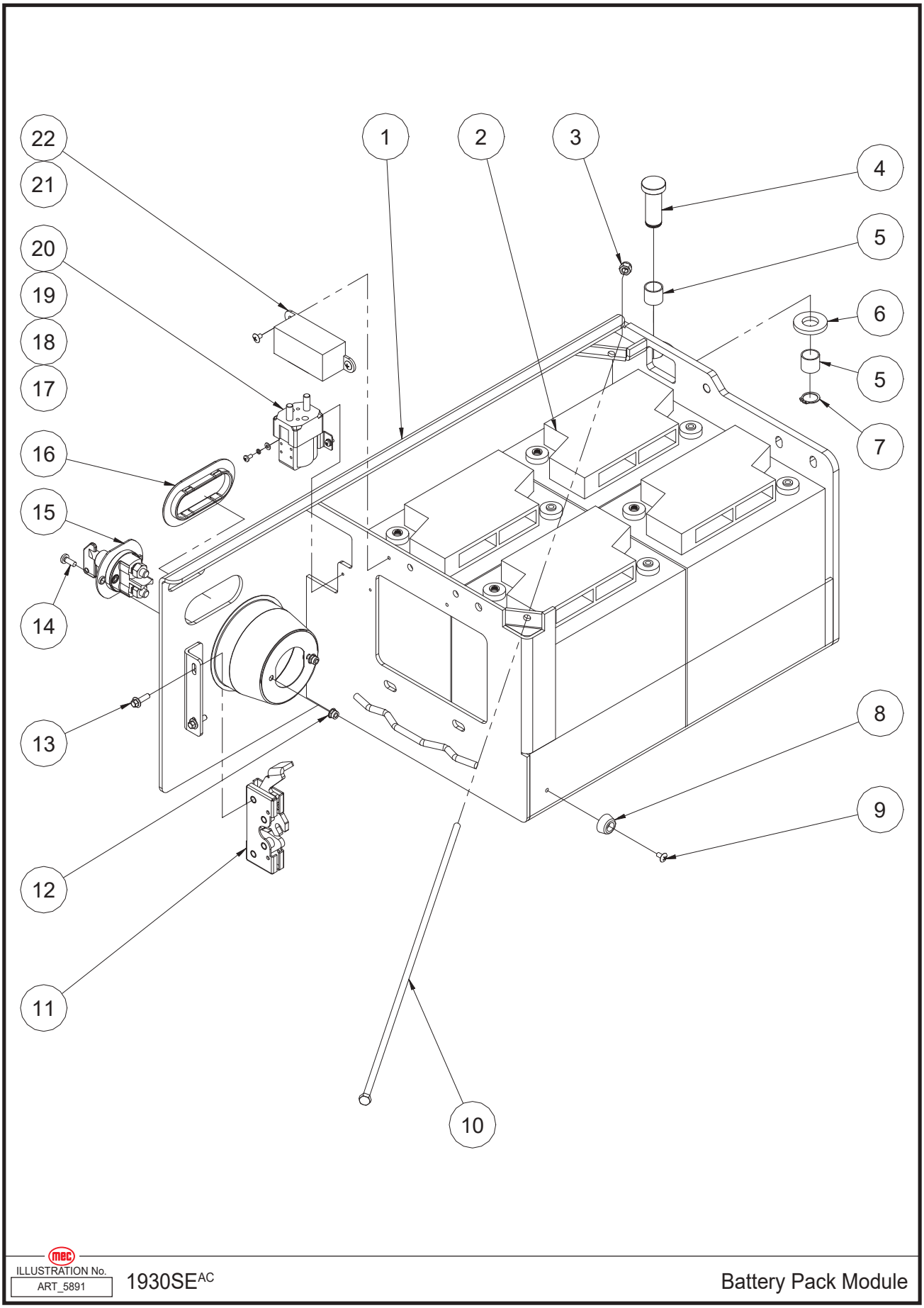


ILLUSTRATION No. ART_5891

1930SE^{AC}

Battery Pack Module

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

Battery Pack Module, 2632SE-4555SE

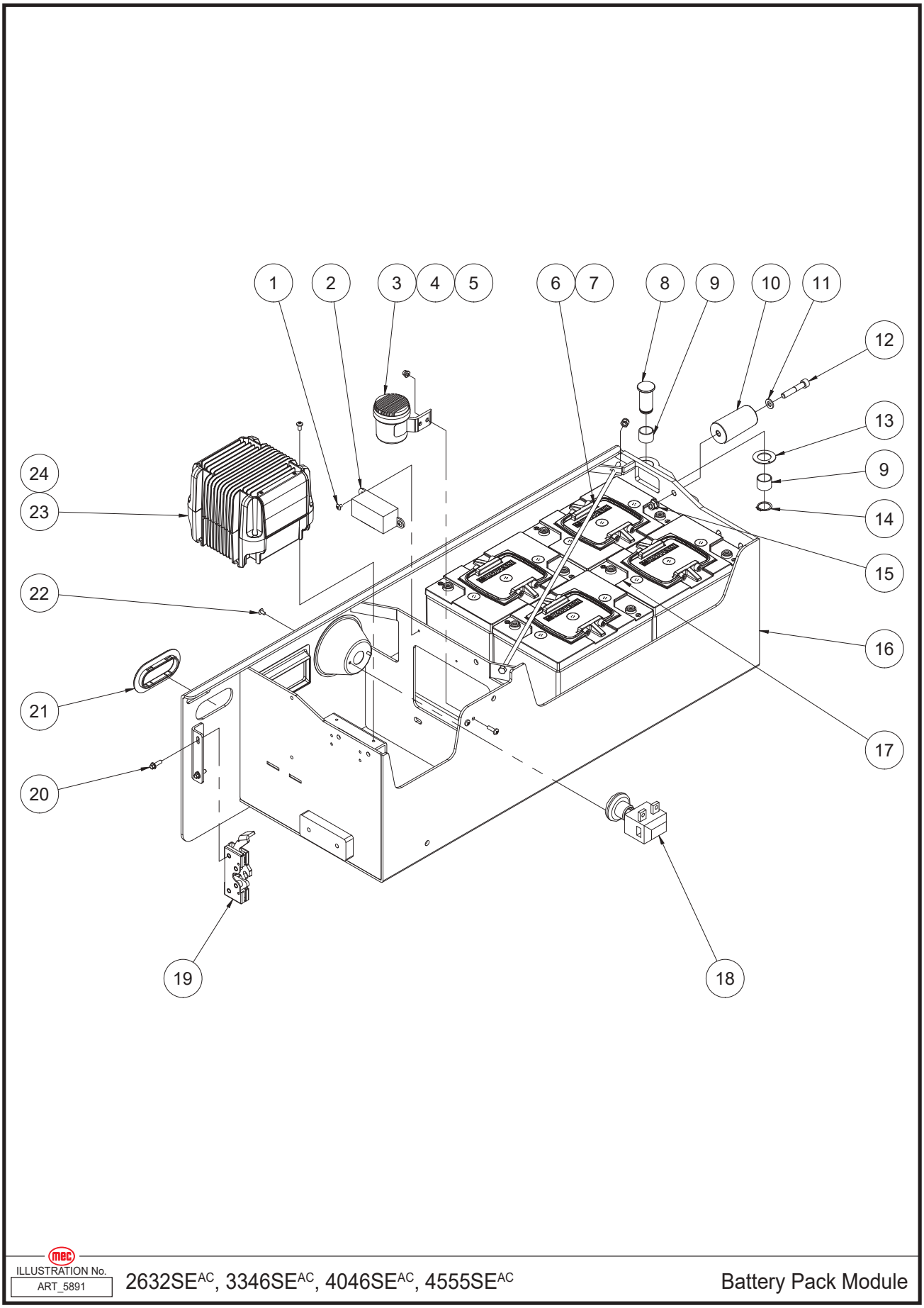


ILLUSTRATION No. ART_5891

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Battery Pack Module

Item	Part Number	Description	Qty.
1	53451	Screw THMS M05-0.80 × 8	2
2	46363	300A Fuse Assembly	1
--	46364	300A Fuse	1
--	46248	Fuse Block	1
3	46263	Battery Alarm	1
4	50568	Nut NNYL M06-1.00 Flange	2
5	53264	Screw PHMS M06-1.00 × 20	2
6	41066	Threaded Rod	1
7	50048	Nut NNYL M08-1.25	1
8	41060	Hinge Pin	2
9	41046	Bearing	4
10	41062	Bumper (2632SE, 3232SE, 3346SE, 4046SE)	1
11	50002	WSHR M10 Standard Flat Washer	2
12	50519	Screw SHCS M10-1.50 × 55	1
13	41019	Bearing	2
14	44936	Circlips	2
15	50311	Nut NNYL M10-1.50 Flange	1
16	46365	Battery Tray Weldment (2632SE)	1
	46366	Battery Tray Weldment (3232SE, 3346SE, 4046SE)	1
	46367	Battery Tray Weldment (4555SE)	1
17	46244	Battery (2632SE)	4
	46368	Battery (3346SE) (Need to install the liner 46369)	4
	46370	Battery (3232SE, 4046SE, 4555SE)	4
18	42071	Power Switch	1
19	42896	Latch (Left)	1
20	53255	Screw HHCS M06-1.00 × 20 Serrated Flange	2
21	41068	Handle Hole Ring	1
22	53265	Screw THMS M05-0.80 × 10	2
23	42903	Charger	1
24	53318	Screw PHMS M06-1.00 × 12	4

Power Unit Module, 1930SE

Check Serial Number

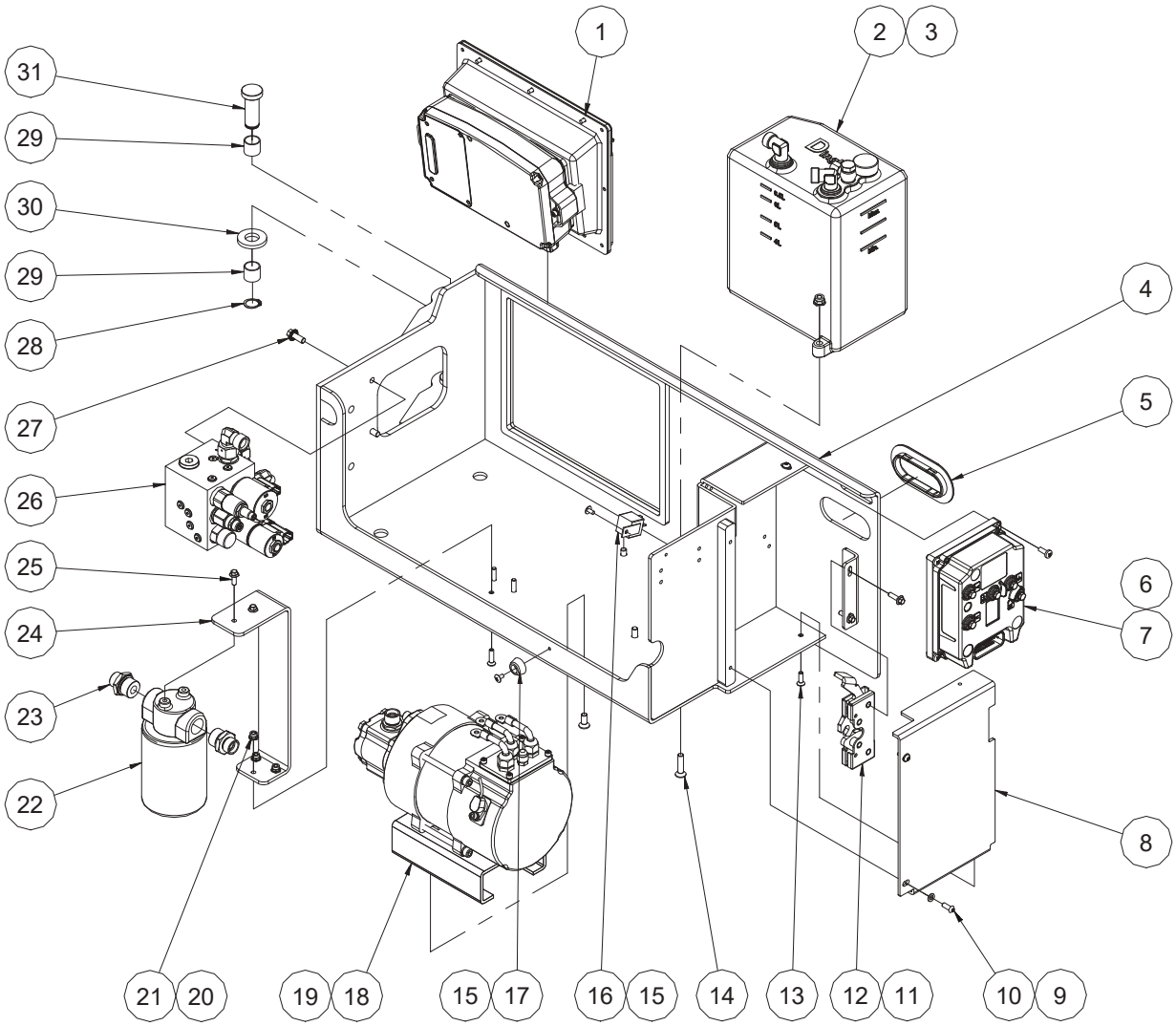


ILLUSTRATION No. ART_5892

1930SE^{AC}

Power Unit Module

Item	Part Number	Description	Qty.
1	REF	Ground Control and Cover Assembly (Refer to page 83)	1
2	REF	Hydraulic Tank Assembly (Refer to page 89)	1
3	50313	Nut NNYL M08-1.25 Flange	2
4	46323	Hydraulic Tray Weldment	1
5	41068	Handle Hole Ring	1
6	53231	Screw PHMS M06-1.00 × 16	4
7	46250	Motor Controller	1
8	50000	WSHR M06 Standard Flat Washer	3
9	46251	Cover	1
10	53448	Screw BHCS M06-1.00 × 16	3
11	53255	Screw HHCS M06-1.00 × 20 Serrated Flange	2
12	41067	Latch (Right)	1
13	50561	Screw CSCS M06-1.00 × 20	1
14	53071	Screw CSCS M08-1.25 × 35	2
15	53265	Screw THMS M05-0.80 × 10	2
16	46252	Relay	1
17	41120	Bumper	1
18	REF	Pump Motor Assembly (Refer to page 95)	1
19	53282	Screw CSCS M08-1.25 × 20	4
20	50386	Screw CSCS M06-1.00 × 25	3
21	50568	Nut NNYL M06-1.00 Flange	3
22	41077	Filter Assembly	1
--	41078	Filter Element	1
23	43576	Straight Fitting	2
24	46324	Filter Bracket	1
25	53256	Screw HHCS M06-1.00 × 16 Serrated Flange	2
26	REF	Function Manifold (Refer to page 172)	1
27	53257	Screw HHCS M08-1.25 × 20 Serrated Flange	4
28	43574	Circlips	2
29	41037	Bearing	4
30	41814	Washer	2
31	41813	Hinge Pin	2

Power Unit Module, 1930SE

Check Serial Number

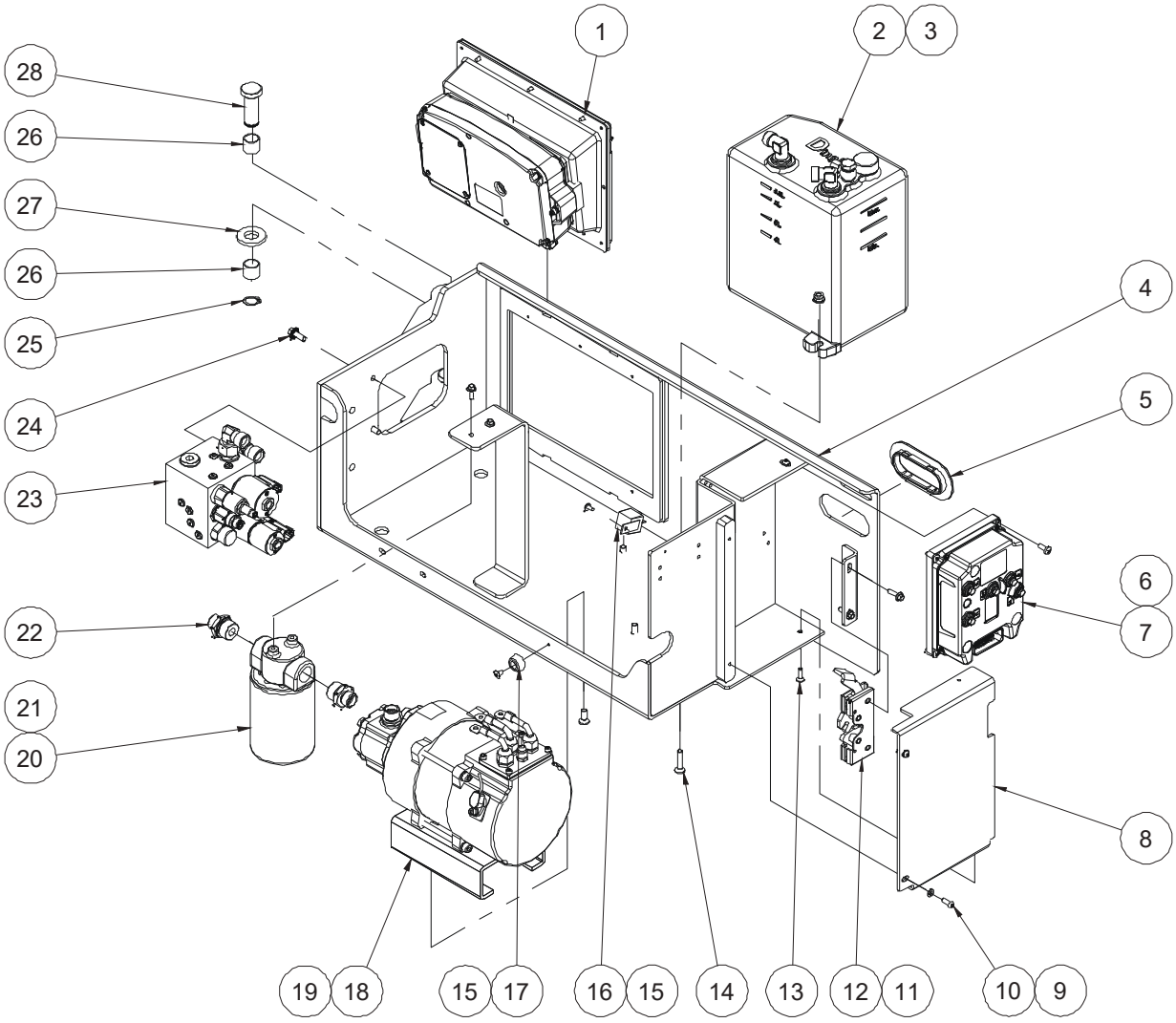


ILLUSTRATION No.
ART_5892

Power Unit Module

Item	Part Number	Description	Qty.
1	REF	Ground Control and Cover Assembly (Refer to page 83)	1
2	45421	Hydraulic Tank Assembly (Refer to page 89)	1
3	50313	Nut NNYL M08-1.25 Flange	2
4	46323	Hydraulic Tray Weldment	1
5	41068	Handle Hole Ring	1
6	53231	Screw PHMS M06-1.00 × 16	4
7	46250	Motor Controller	1
8	50000	WSHR M06 Standard Flat Washer	3
9	46251	Cover	1
10	53448	Screw BHCS M06-1.00 × 16	3
11	53255	Screw HHCS M06-1.00 × 20 Serrated Flange	2
12	41067	Latch (Right)	1
13	50561	Screw CSCS M06-1.00 × 20	1
14	53071	Screw CSCS M08-1.25 × 35	2
15	53265	Screw THMS M05-0.80 × 10	2
16	46252	Relay	1
17	41120	Bumper	1
18	REF	Pump Motor Assembly (Refer to page 95)	1
19	53282	Screw CSCS M08-1.25 × 20	4
20	41077	Filter Assembly	1
21	53256	Screw HHCS M06-1.00 × 16 Serrated Flange	2
22	43576	Straight Fitting	2
23	REF	Function Manifold (Refer to page 172)	1
24	53257	Screw HHCS M08-1.25 × 20 Serrated Flange	4
25	43574	Circlips	2
26	41037	Bearing	4
27	41814	Washer	2
28	41813	Hinge Pin	2

REF - Reference

Power Unit Module, 2632SE-4555SE

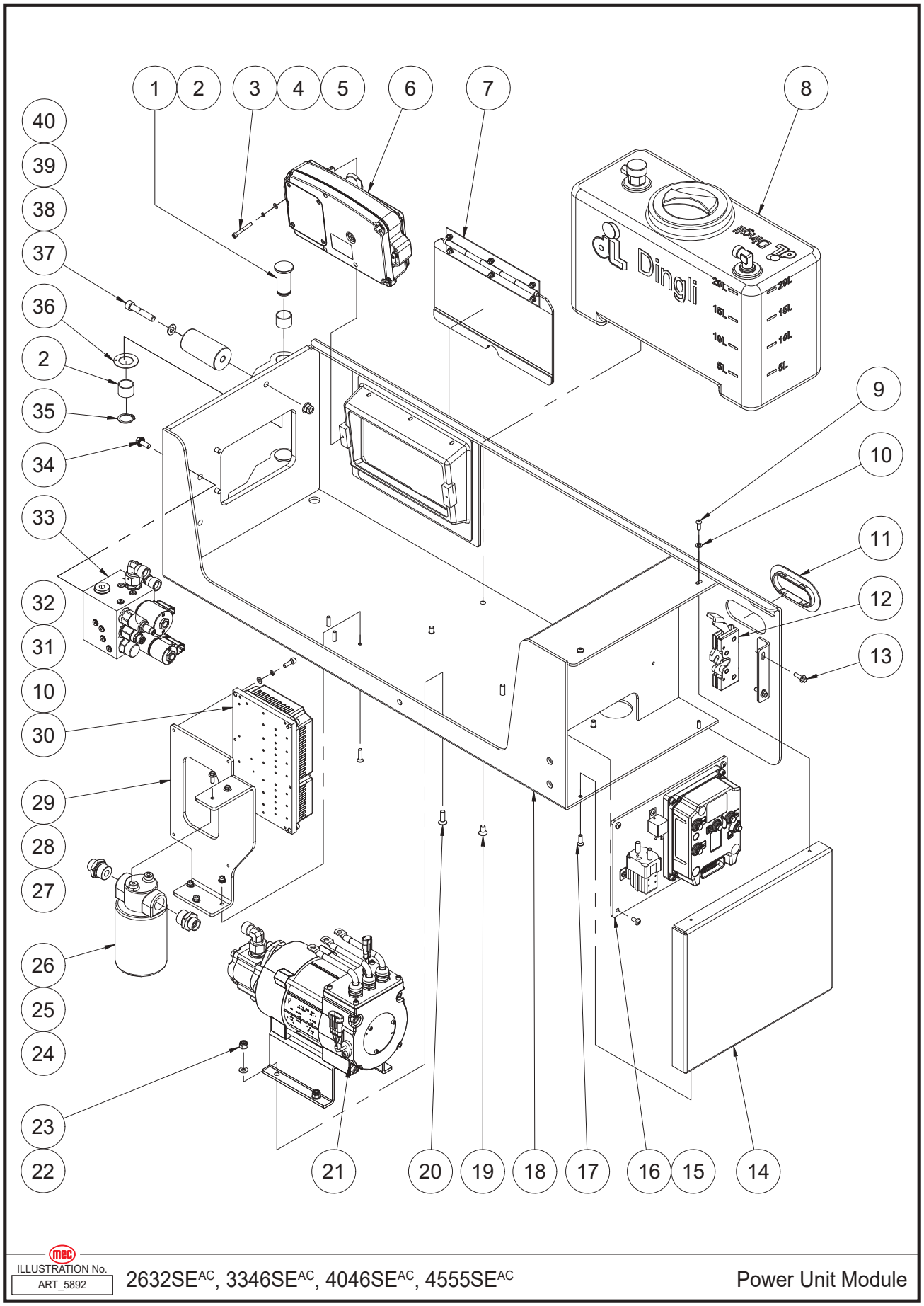


ILLUSTRATION No. ART_5892

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Power Unit Module

Item	Part Number	Description	Qty.
1	41060	Hinge Pin	2
2	41046	Bearing	4
3	53067	Screw SHCS M05-0.80 × 40	2
4	53043	WSHR M05 Spring Washer	2
5	53038	WSHR M05 Standard Flat Washer	2
6	44792	Ground Control Assembly (Refer to page 87)	1
7	REF	Ground Control Cover Assembly (Refer to page 85)	1
8	REF	Hydraulic Tank Assembly (Refer to page 91)	1
9	53448	Screw BHCS M06-1.00 × 16	2
10	50000	WSHR M06 Standard Flat Washer	6
11	41068	Handle Hole Ring	1
12	41067	Latch (Right)	1
13	53255	Screw HHCS M06-1.00 × 20 Serrated Flange	2
14	41073	Cover	1
15	53318	Screw PHMS M06-1.00 × 12	4
16	REF	Motor Controller Assembly (Refer to page 93)	1
17	50561	Screw CSCS M06-1.00 × 20	2
18	45319	Hydraulic Tray Weldment (2632SE, 3232SE, 3346SE, 4046SE)	1
	46372	Hydraulic Tray Weldment (4555SE)	1
19	53434	Screw CSCS M08-1.25 × 16	4
20	53435	Screw CSCS M08-1.25 × 25	4
21	REF	Pump Motor Assembly (Refer to page 97)	1
22	50001	WSHR M08 Standard Flat Washer	4
23	50048	Nut NNYL M08-1.25	4
24	53256	Screw HHCS M06-1.00 × 16 Serrated Flange	2
25	43576	Straight Fitting	2
26	41077	Filter Assembly	1
--	41078	Filter Element	1
27	50568	Nut NNYL M06-1.00 Flange	3
28	50386	Screw CSCS M06-1.00 × 25	3
29	45320	Controller Bracket	1
30	46271	Motor Controller	1
31	53046	WSHR M06 Spring Washer	4
32	53124	Screw SHCS M06-1.00 × 20	4
33	REF	Function Manifold (Refer to page 174)	1
34	53257	Screw HHCS M08-1.25 × 20 Serrated Flange	4
35	44936	Circlips	2
36	41019	Bearing	2
37	50519	Screw SHCS M10-1.50 × 55 (2632SE, 3232SE, 3346SE, 4046SE)	1
38	50002	WSHR M10 Standard Flat Washer (2632SE, 3232SE, 3346SE, 4046SE)	1
39	41062	Bumper (2632SE, 3232SE, 3346SE, 4046SE)	1
40	50311	Nut NNYL M10-1.50 Flange (2632SE, 3232SE, 3346SE, 4046SE)	1

REF - Reference

Ground Control and Cover Assembly, 1930SE

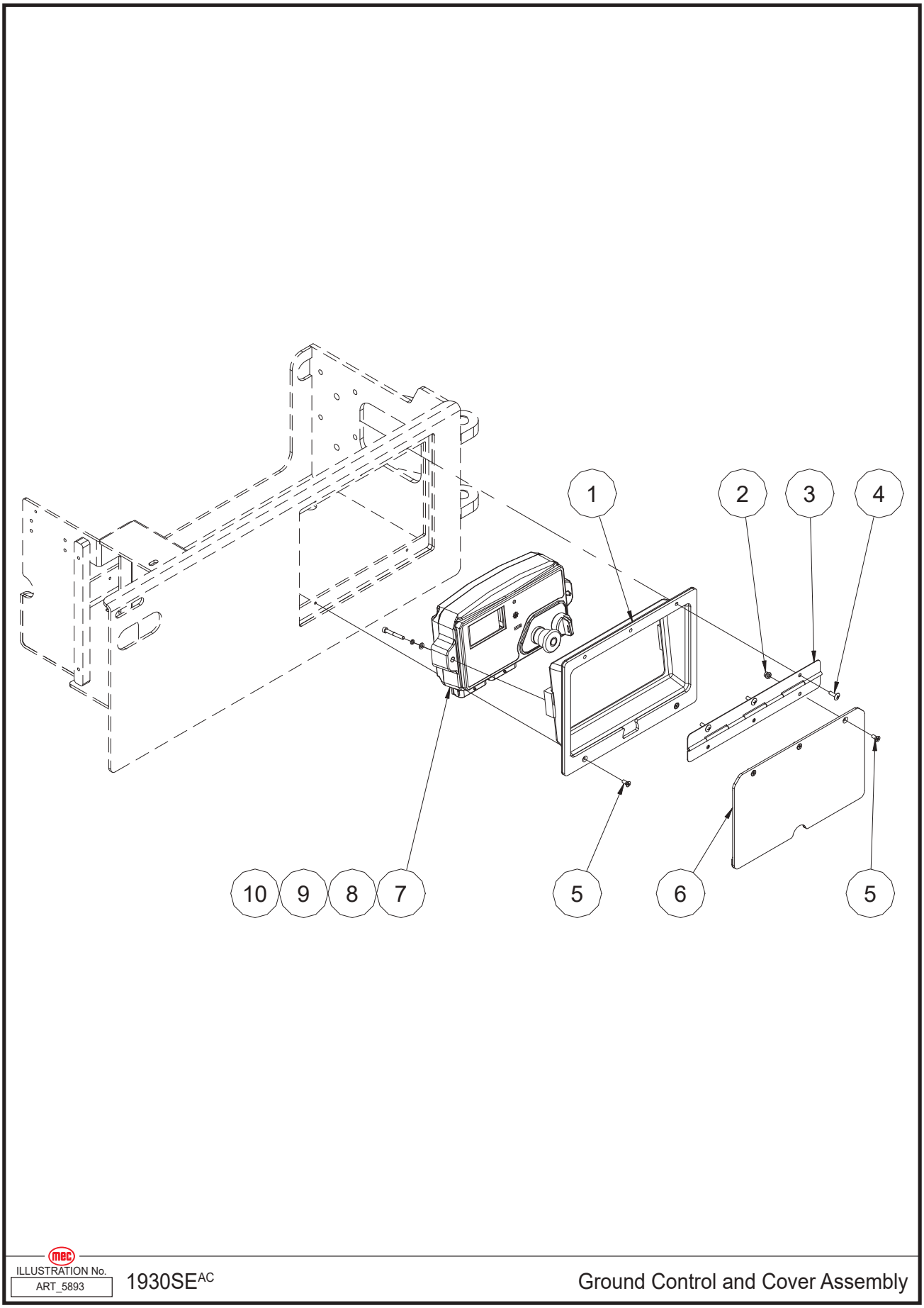


ILLUSTRATION No. ART_5893

1930SE^{AC}

Ground Control and Cover Assembly

Item	Part Number	Description	Qty.
1	46255	Ground Control Bracket	1
2	53281	Nut NNYL M05-0.80 Flange	3
3	46256	Hinge	1
4	53224	Screw THMS M05-0.80 × 12	3
5	53279	Screw CSCS M05-0.80 × 12	5
6	46257	Cover	1
7	46313	Ground Control Assembly (Refer to page 87)	1
8	53038	WSHR M05 Standard Flat Washer	2
9	53043	WSHR M05 Spring Washer	2
10	53067	Screw SHCS M05-0.80 × 40	2

Ground Control Cover Assembly, 2632SE-4555SE

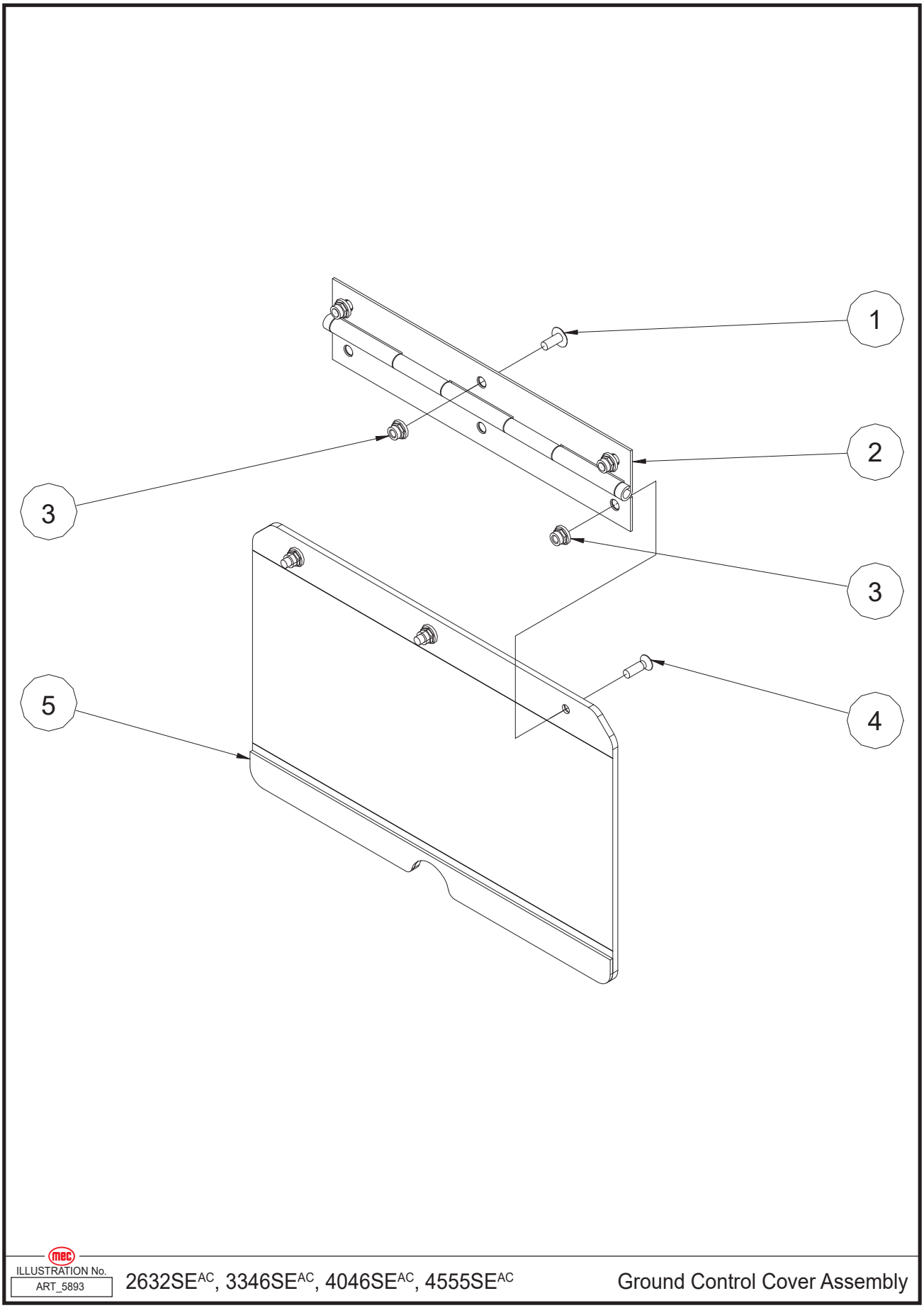


ILLUSTRATION No. ART_5893

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Ground Control Cover Assembly

Item	Part Number	Description	Qty
1	53224	Screw THMS M05-0.80 × 12	3
2	46374	Hinge	1
3	53281	Nut NNYL M05-0.80 Flange	6
4	53279	Screw CSCS M05-0.80 × 12	3
5	46257	Cover	1

Ground Control Assembly, 1930SE-4555SE

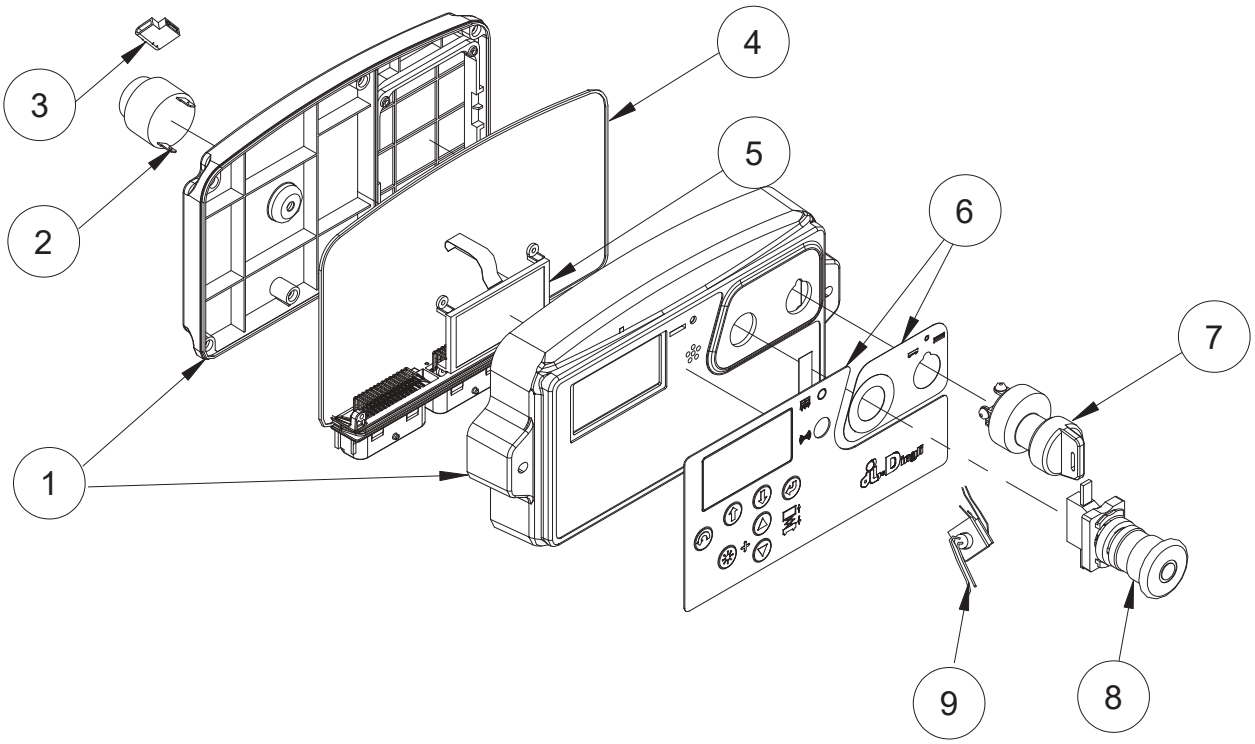


ILLUSTRATION No. ART_5870

Micro26AC

Ground Control Assembly

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

Hydraulic Tank Assembly, 1930SE

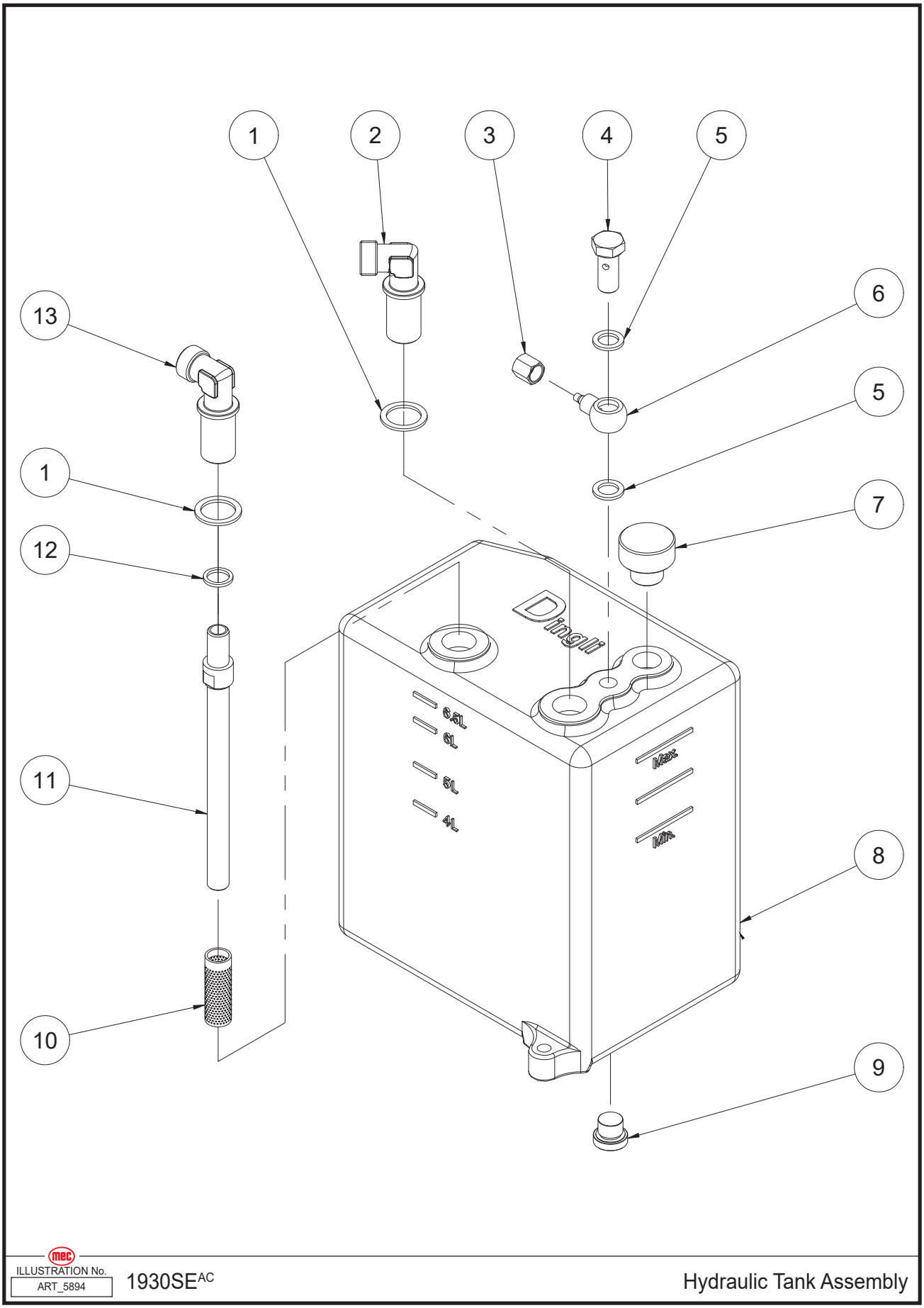


ILLUSTRATION No. ART_5894

1930SE^{AC}

Hydraulic Tank Assembly

Item	Part Number	Description	Qty.
1	41412	Washer	2
2	41085	Fitting	1
3	41413	Nut	1
4	41166	Fitting	1
5	44002	Washer	2
6	41167	Fitting	1
7	41082	Breather	1
8	44344	Tank	1
9	41087	Plug	1
10	41824	Filter	1
11	44568	Suction Pipe Weldment	1
12	44567	Seal Washer	1
13	41826	Fitting	1

Hydraulic Tank Assembly, 2632SE-4555SE

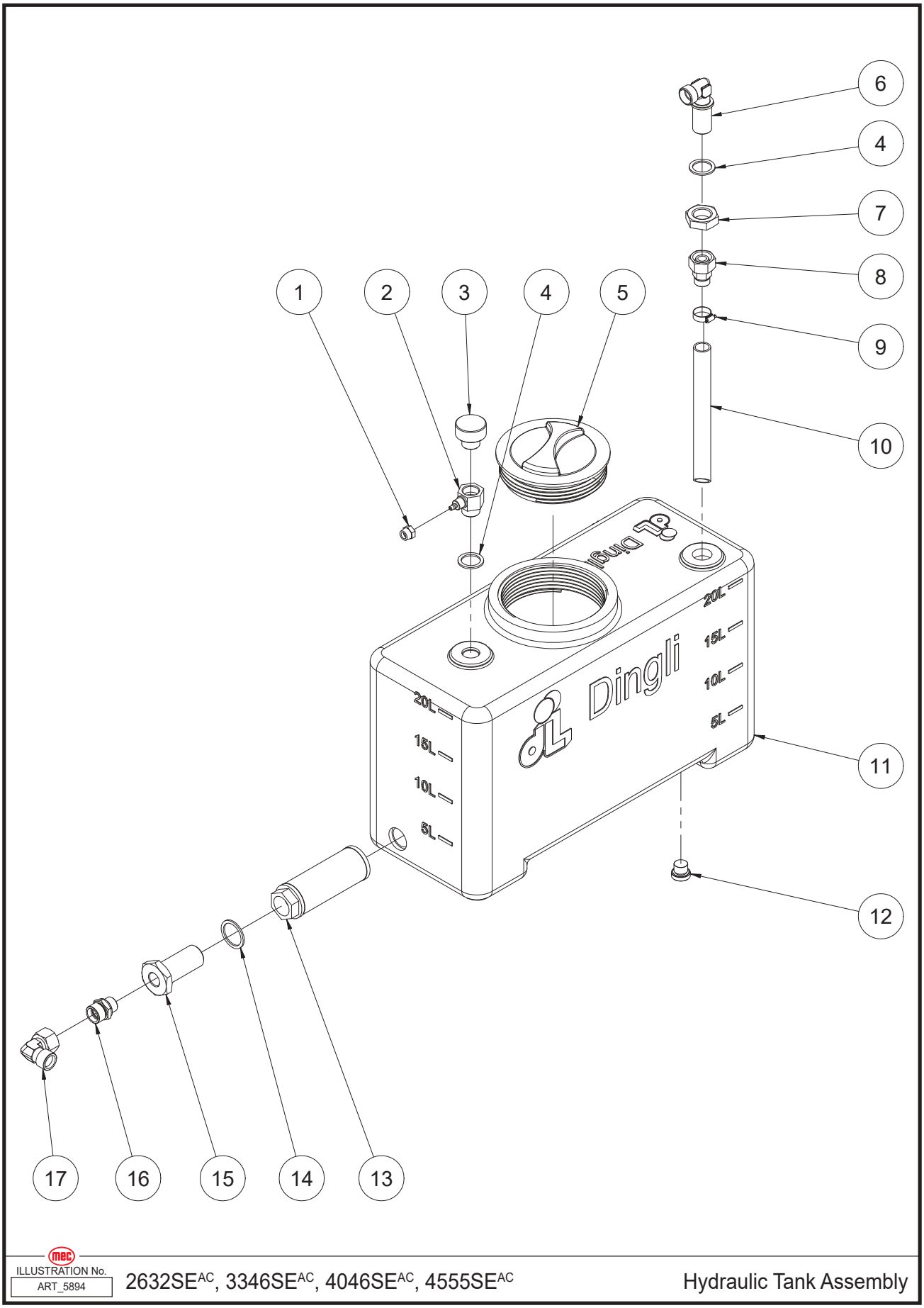


ILLUSTRATION No. ART_5894

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Hydraulic Tank Assembly

Item	Part Number	Description	Qty
1	41413	Nut	1
2	41090	Fitting	1
3	41082	Breather	1
4	41412	Washer	2
5	41083	Tank Cover	1
6	41085	Fitting	1
7	53436	Nut NHEX M22-1.50, Thin Nut Chamfered	1
8	43118	Straight Fitting	1
9	44940	Clamp	1
10	44941	Hose	1
11	41088	Tank	1
12	41087	Plug	1
13	41086	Hydraulic Filter	1
14	41428	Seal Washer	1
15	41089	Fitting	1
16	46375	Straight Fitting	1
17	46376	Elbow	1

Motor Controller Assembly, 2632SE-4555SE

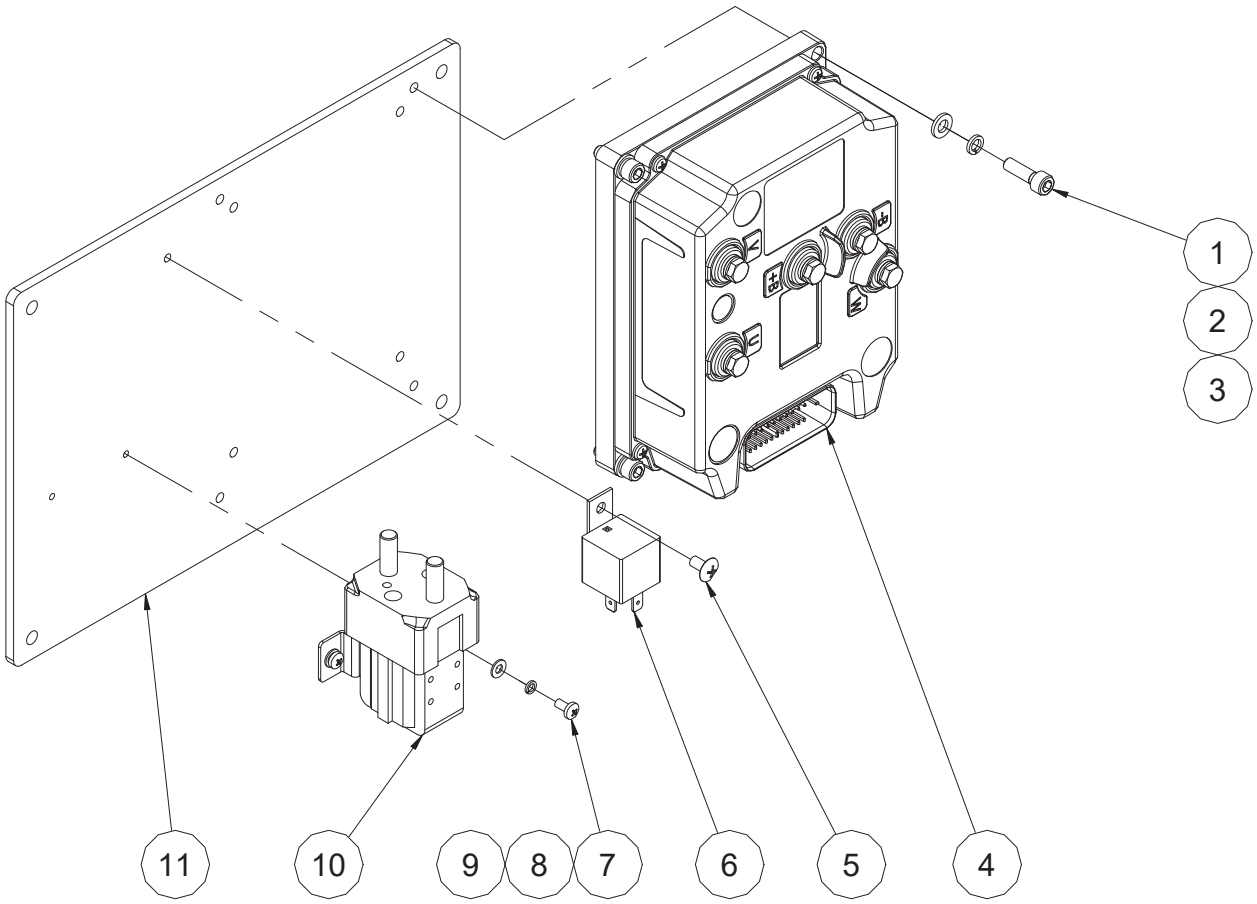


ILLUSTRATION No. ART_5895

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Motor Controller Assembly

Item	Part Number	Description	Qty
1	53124	Screw SHCS M06-1.00 × 20	4
2	53046	WSHR M06 Spring Washer	4
3	50000	WSHR M06 Standard Flat Washer	4
4	46250	Motor Controller	1
5	53265	Screw THMS M05-0.80 × 10	1
6	46252	Relay	1
7	53276	Screw PHMS M04-0.70 × 8	2
8	53062	WSHR M04 Spring Washer	2
9	50284	WSHR M04 Standard Flat Washer	2
10	41331	Contactor	1
11	46377	Mounting Plate	1

Pump Motor Assembly, 1930SE

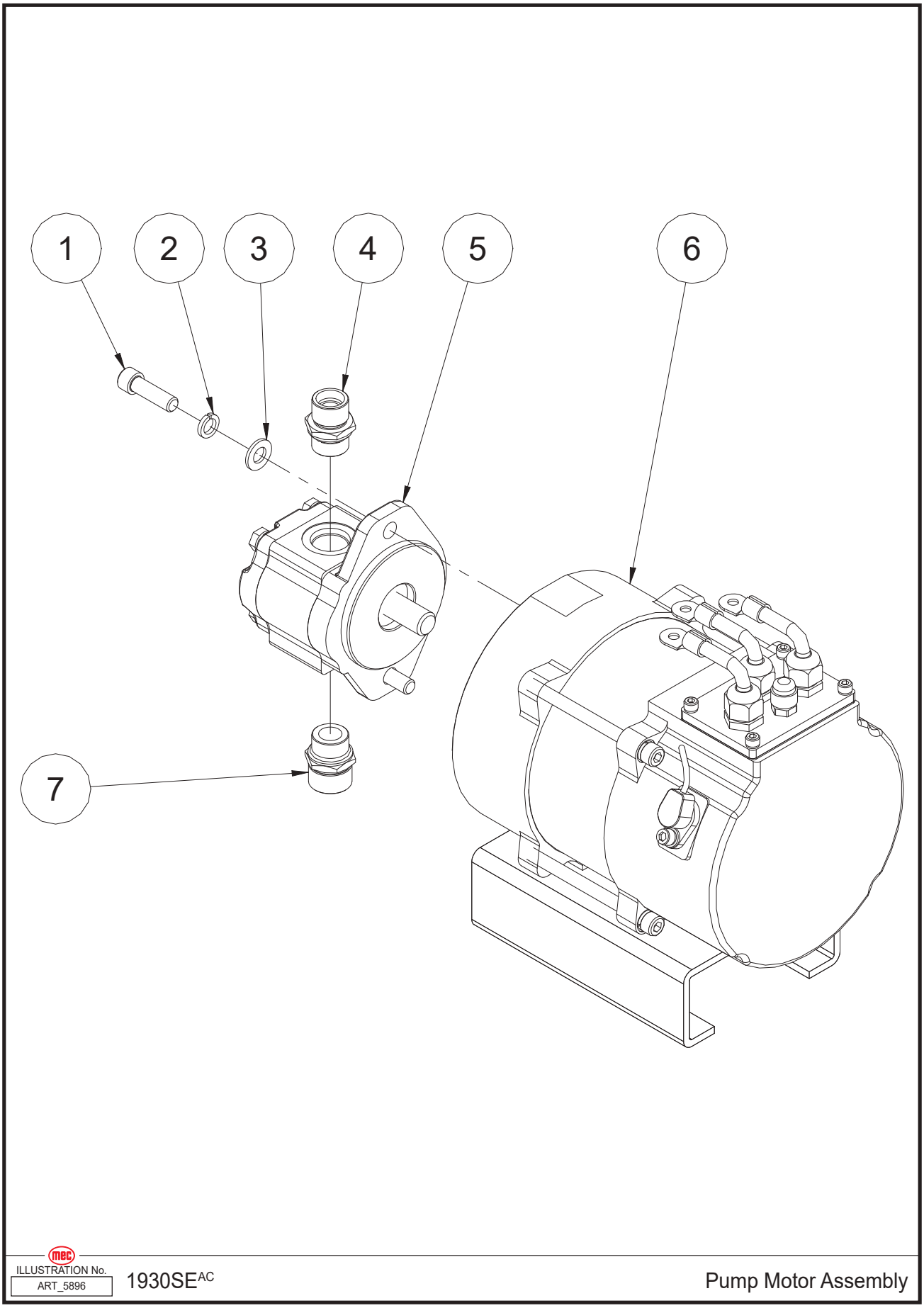


ILLUSTRATION No. ART_5896

1930SE^{AC}

Pump Motor Assembly

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

Pump Motor Assembly, 2632SE-4555SE

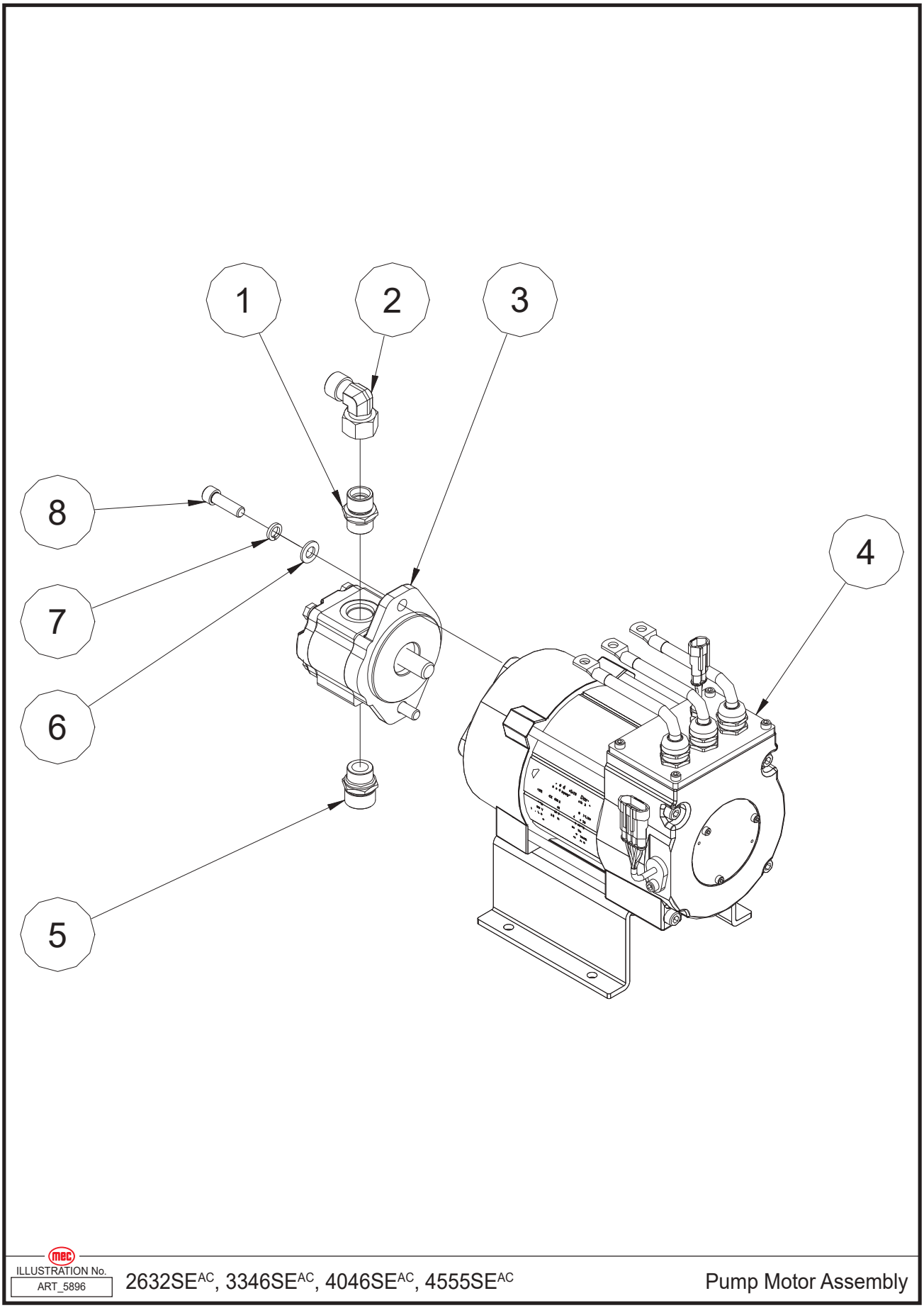


ILLUSTRATION No. ART_5896

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Pump Motor Assembly

Item	Part Number	Description	Qty.
1	43205	Straight Fitting	1
2	43206	Elbow	1
3	41426	Pump	1
4	46378	Motor	1
5	46260	Straight Fitting	1
6	50002	WSHR M10 Standard Flat Washer	2
7	53054	WSHR M10 Spring Washer	2
8	53315	Screw SHCS 3/8-24 × 1 1/4	2

Rear Wheel and Ladder, 1930SE

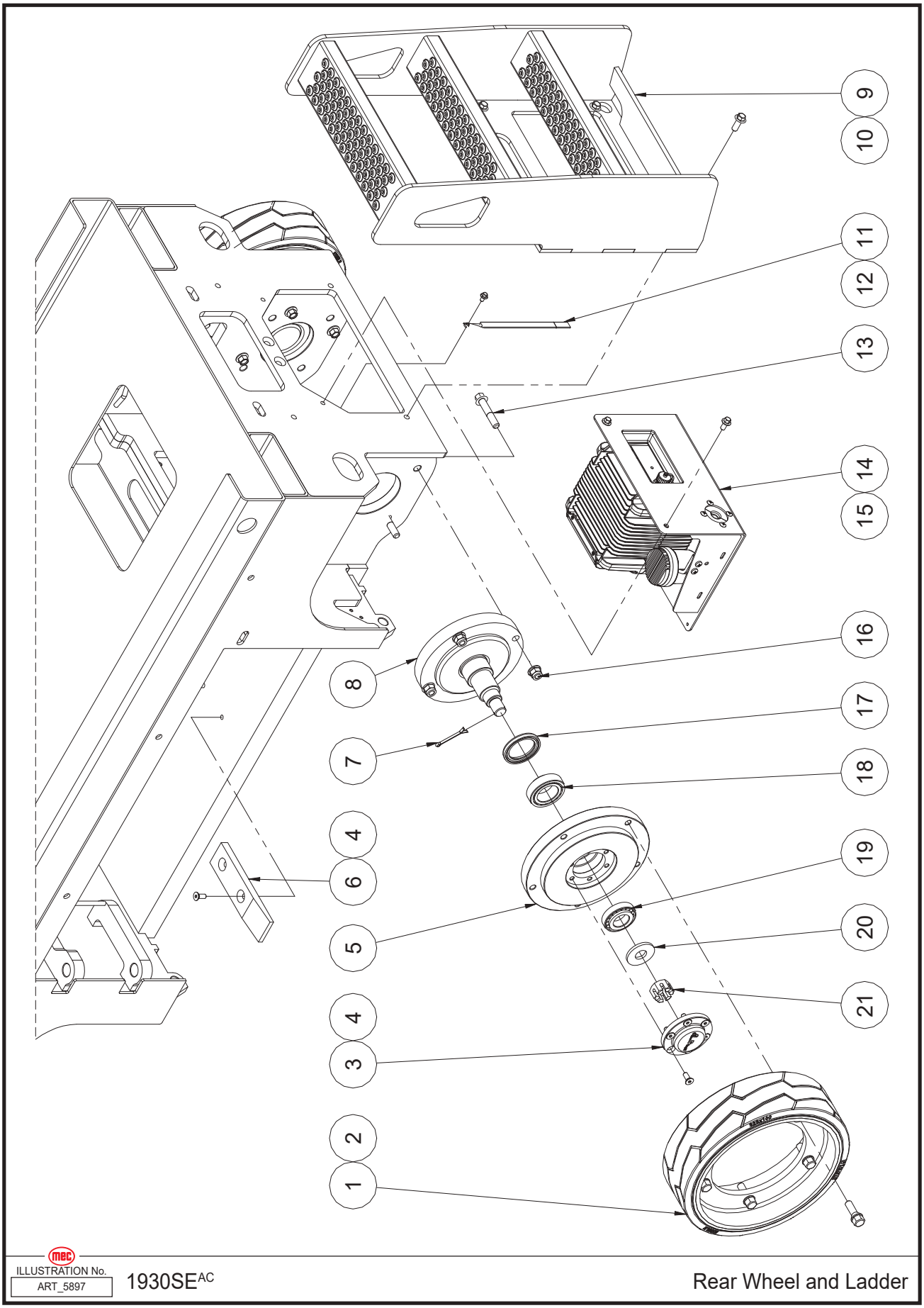


ILLUSTRATION No. ART_5897

1930SE^{AC}

Rear Wheel and Ladder

Item	Part Number	Description	Qty.
1	46321	Wheel	2
2	53509	Screw HHCS M12-1.50 × 40	10
3	41328	Cap	2
4	53282	Screw CSCS M08-1.25 × 20	16
5	41025	Bearing Seat	2
6	41002	Spacer	2
7	43585	Cotter Pin	2
8	43586	Spindle	2
9	46325	Ladder	1
10	50429	Screw HHCS M10-1.50 × 25 Serrated Flange	4
11	41003	Ground Strap	1
12	53260	Screw HHCS M06-1.00 × 10 Serrated Flange	1
13	53290	Screw HHCS M12-1.75 × 65 Flange	8
14	REF	Charger Assembly (Refer to page 103)	1
15	53194	Screw HHCS M08-1.25 × 16 Serrated Flange	2
16	53261	Nut NNYL M12-1.75 Flange	8
17	43588	Seal	2
18	41029	Bearing	2
19	41024	Bearing	2
20	41304	Washer	2
21	53262	Castle Nut M22-1.50	2

REF - Reference

Rear Wheel and Ladder, 2632SE-4555SE

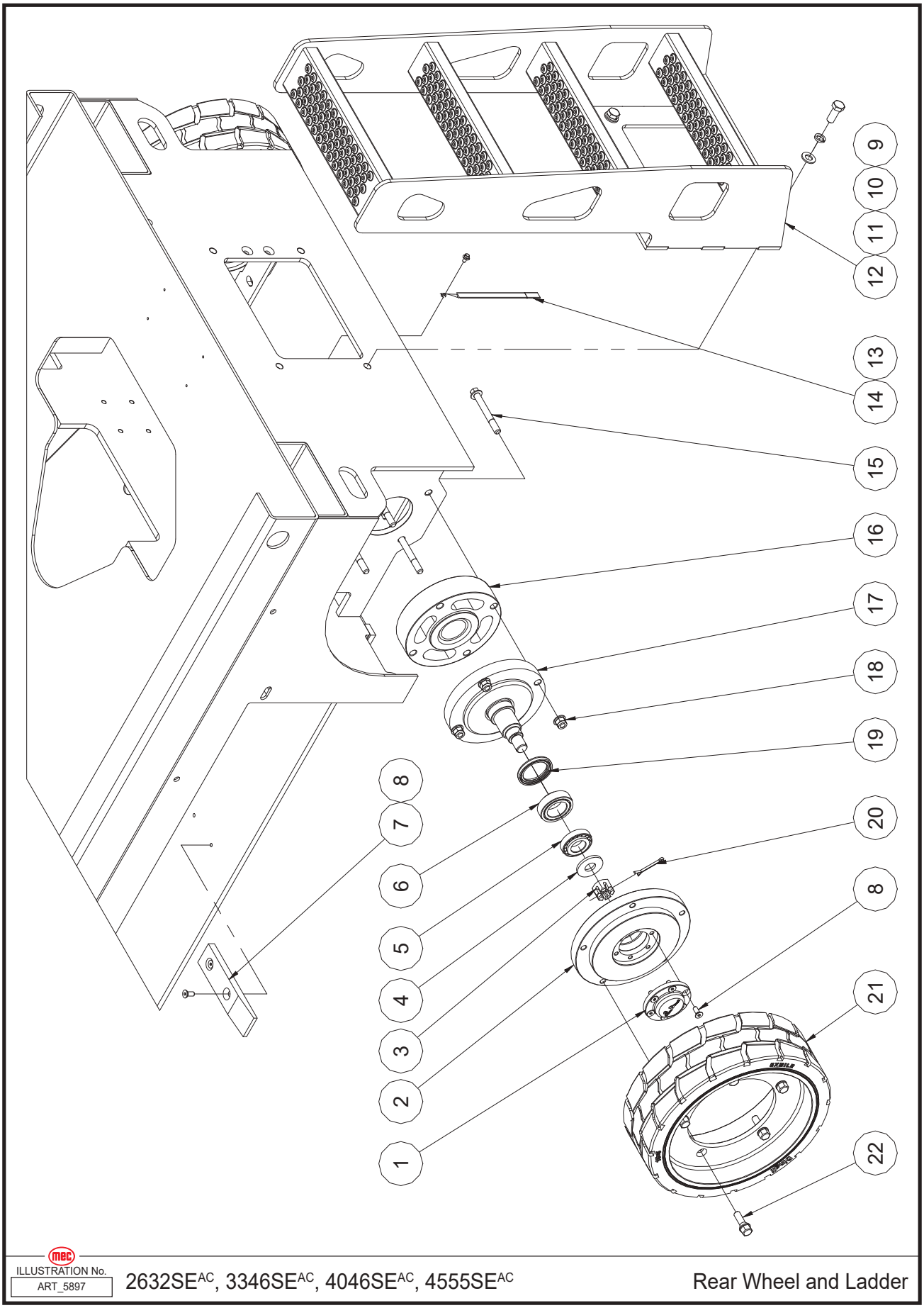


ILLUSTRATION No. ART_5897

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Rear Wheel and Ladder

Item	Part Number	Description	Qty.
--	45321	Rear Wheel Assembly (Includes Item 1-6 and 15-22)	/
1	41328	Cap	2
2	41025	Bearing Seat	2
3	53262	Castle Nut M22-1.50	2
4	41304	Washer	2
5	41024	Bearing	2
6	41029	Bearing	2
7	41002	Spacer	2
8	53282	Screw CSCS M08-1.25 × 20	16
9	53047	Screw HHCS M14-2.00 × 35	4
10	53048	WSHR M14 Spring Washer	4
11	53049	WSHR M14 Standard Flat Washer	4
12	41374	Ladder (2632SE)	1
	41464	Ladder (3232SE, 3346SE)	1
	41004	Ladder (4046SE, 4555SE)	1
13	53260	Screw HHCS M06-1.00 × 10 Serrated Flange	1
14	41003	Ground Strap	1
15	53438	Screw HHCS M12-1.75 × 100 Flange	8
16	41021	Terminal Pad	2
17	41022	Spindle	2
18	53261	Nut NNYL M12-1.75 Flange	8
19	43588	Seal	2
20	43585	Cotter Pin	2
21	46358	Wheel	2
22	53509	Screw HHCS M12-1.50 × 40	10

Charger Assembly, 1930SE

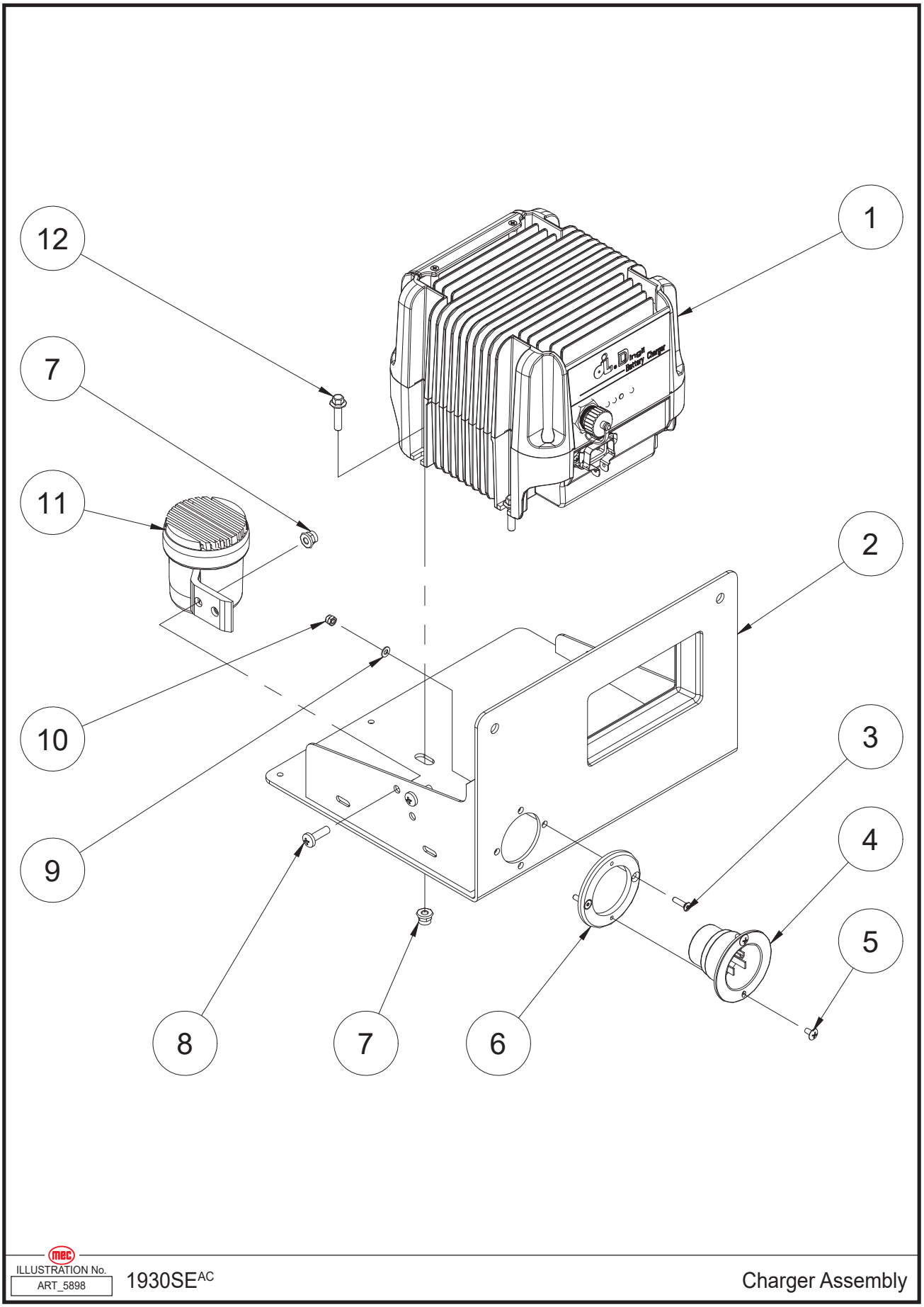


ILLUSTRATION No. ART_5898

1930SE^{AC}

Charger Assembly

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

Chassis Accessory Installation, 1930SE

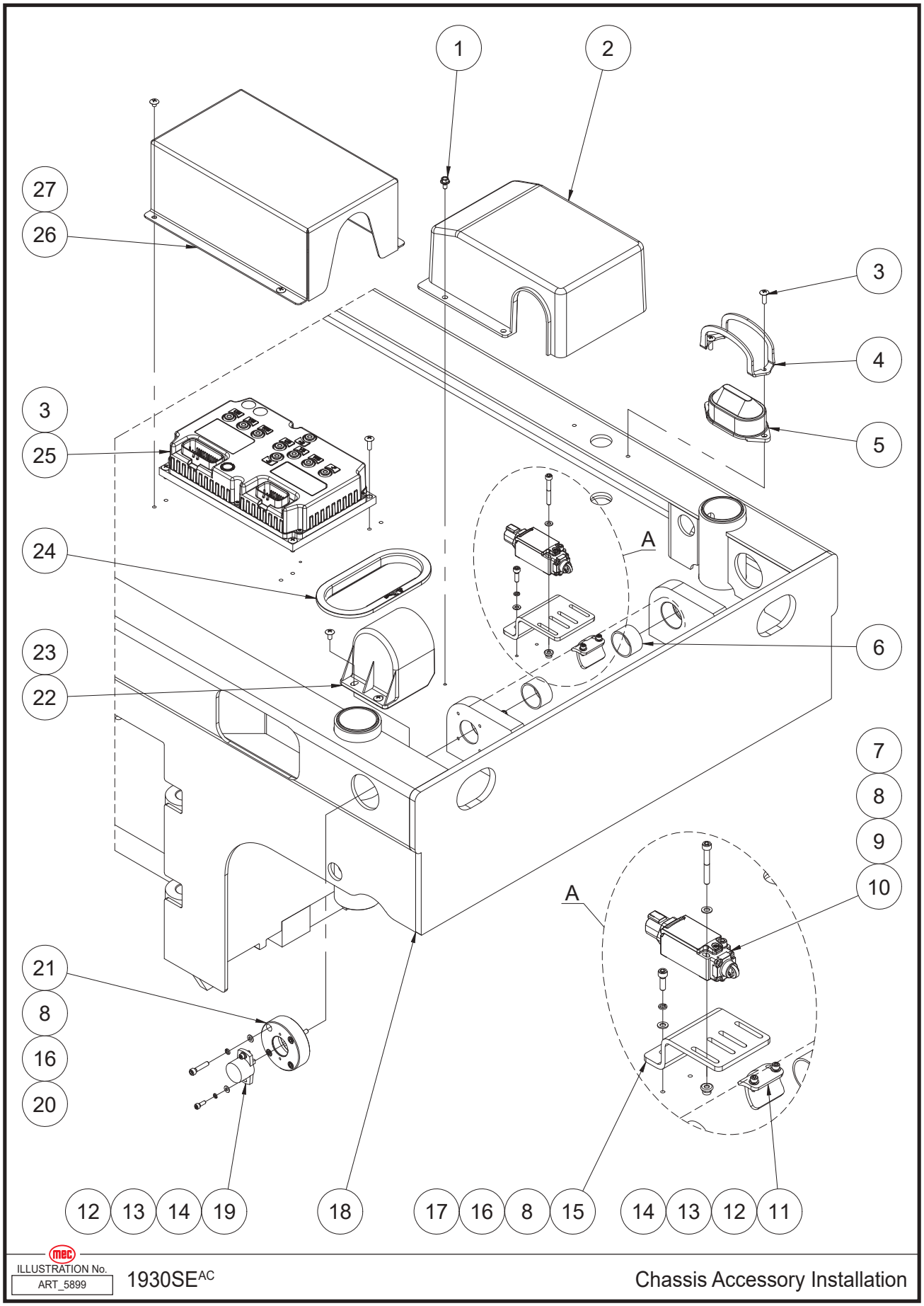


ILLUSTRATION No. ART_5899 1930SE^{AC} Chassis Accessory Installation

Item	Part Number	Description	Qty.
1	53449	Screw HHCS M05-0.80 × 10 Flange	4
2	44895	Cover	1
3	53223	Screw THMS M05-0.80 × 16	6
4	41309	Beacon Cover	1
5	46264	Beacon	1
6	41051	Bearing	2
7	53067	Screw SHCS M05-0.80 × 40	2
8	53038	WSHR M05 Standard Flat Washer	8
9	53281	Nut NNYL M05-0.80 Flange	2
10	46265	Limit Switch	1
11	43594	Signal Plate	1
12	50423	Screw SHCS M04-0.70 × 12	4
13	53062	WSHR M04 Spring Washer	4
14	50284	WSHR M04 Standard Flat Washer	4
15	43593	Switch Bracket	1
16	53043	WSHR M05 Spring Washer	6
17	50359	Screw SHCS M05-0.80 × 16	6
18	46326	Frame Weldment	1
19	46267	Rotary Sensor	1
20	53356	Screw SHCS M05-0.80 × 25	4
21	46268	Sensor Bracket	1
22	46269	Sensor Cover	1
23	53265	Screw THMS M05-0.80 × 10	2
24	46270	Sheath 2	1
25	46271	Motor Controller	1
26	46272	Cover	1
27	53266	Screw THMS M05-0.80 × 6	4

Ground Control and Limit Switch, 2632SE-4555SE

Check Serial Number

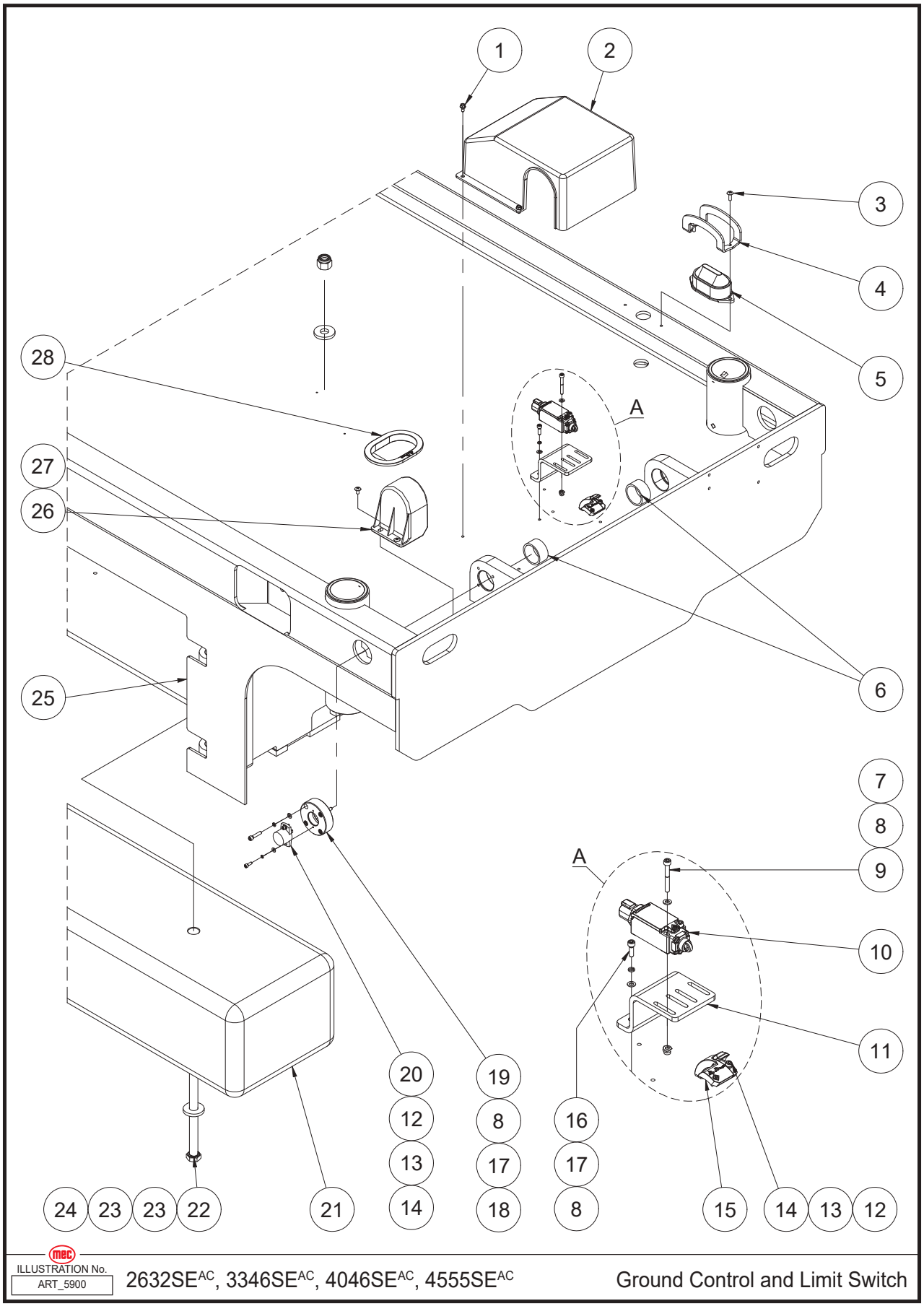


ILLUSTRATION No. ART_5900

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Ground Control and Limit Switch

Item	Part Number	Description	Qty.
1	53449	Screw HHCS M05-0.80 × 10 Flange	6
2	44942	Cover	1
3	53223	Screw THMS M05-0.80 × 16	2
4	41309	Beacon Cover	1
5	46264	Beacon	1
6	46379	Bearing	2
7	53281	Nut NNYL M05-0.80 Flange	2
8	53038	WSHR M05 Standard Flat Washer	8
9	53067	Screw SHCS M05-0.80 × 40	2
10	46265	Limit Switch, Lift Down	1
11	41414	Switch Bracket	1
12	50284	WSHR M04 Standard Flat Washer	4
13	53062	WSHR M04 Spring Washer	4
14	50423	Screw SHCS M04-0.70 × 12	4
15	41097	Signal Plate	1
16	50359	Screw SHCS M05-0.80 × 16	2
17	53043	WSHR M05 Spring Washer	6
18	53356	Screw SHCS M05-0.80 × 25	4
19	46268	Sensor Bracket	1
20	46267	Rotary Sensor	1
21	46380	Counterweight 400 (4046SE)	1
22	53439	Screw HHCS M16-2.00 × 210 (4046SE)	2
23	44947	Washer (4046SE)	4
24	50051	Nut NNYL M16 × 2.00 (4046SE)	2
25	46381	Frame Weldment (2632SE)	1
	46382	Frame Weldment (3346SE, 4046E)	1
	46383	Frame Weldment (4555SE)	1
25	46384	Sensor Cover	1
26	53265	Screw THMS M05-0.80 × 10	2
27	41001	Sheath	1

Ground Control and Limit Switch, 2632SE-4555SE

Check Serial Number

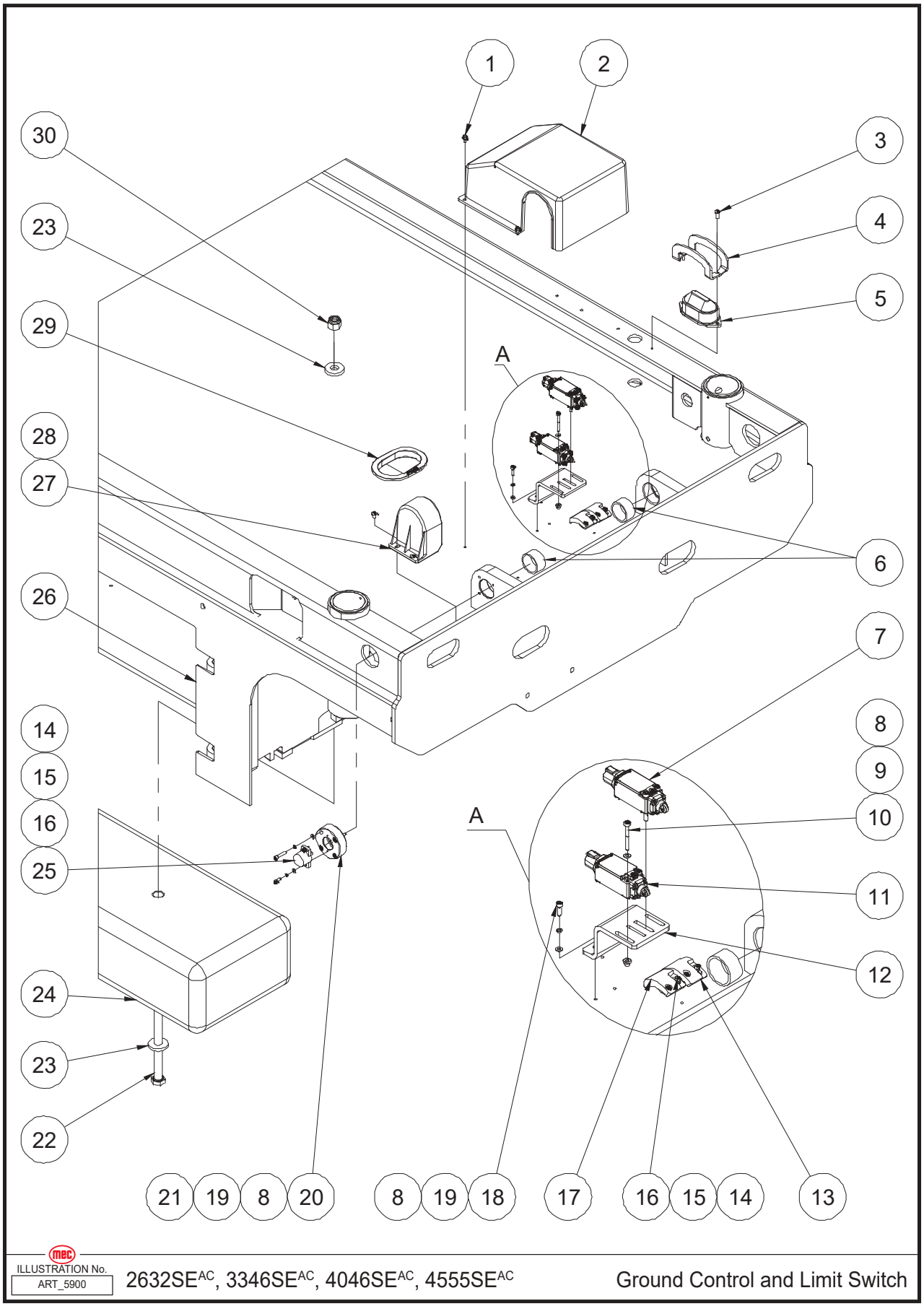


ILLUSTRATION No. ART_5900

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Ground Control and Limit Switch

Item	Part Number	Description	Qty.
1	53449	Screw HHCS M05-0.80 × 10 Flange	4
2	44942	Cover	1
3	53223	Screw THMS M05-0.80 × 16	2
4	41309	Beacon Cover	1
5	46264	Beacon	1
6	46379	Bearing	2
7	46265	Limit Switch (Option)	1
8	53038	WSHR M05 Standard Flat Washer	12
9	53281	Nut NNYL M05-0.80 Flange	4
10	53067	Screw SHCS M05-0.80 × 40	4
11	46265	Limit Switch (Option)	1
12	41414	Switch Bracket	1
13	--	--	--
14	50284	WSHR M04 Standard Flat Washer	6
15	53062	WSHR M04 Spring Washer	6
16	50423	Screw SHCS M04-0.70 × 12	6
17	45417	Signal Plate 1	1
18	50359	Screw SHCS M05-0.80 × 16	2
19	53043	WSHR M05 Spring Washer	6
20	46268	Sensor Bracket	1
21	53356	Screw SHCS M05-0.80 × 25	4
22	53439	Screw HHCS M16-2.00 × 210 (4046SE)	2
23	53314	WSHR M16 Flat Fender Washer (4046SE)	4
24	46380	Counterweight 400 (4046SE)	1
25	46267	Rotary Sensor	1
26	46381	Frame Weldment (2632SE)	1
	45323	Frame Weldment (3232SE)	1
	45324	Frame Weldment (3346SE, 4046SE)	1
	45325	Frame Weldment (4555SE)	1
27	46384	Sensor Cover	1
28	53265	Screw THMS M05-0.80 × 10	2
29	41001	Sheath	1
30	50051	Nut NNYL M16-2.00 (4046SE)	2

Cable and Socket Installation, 3346SE-4555SE

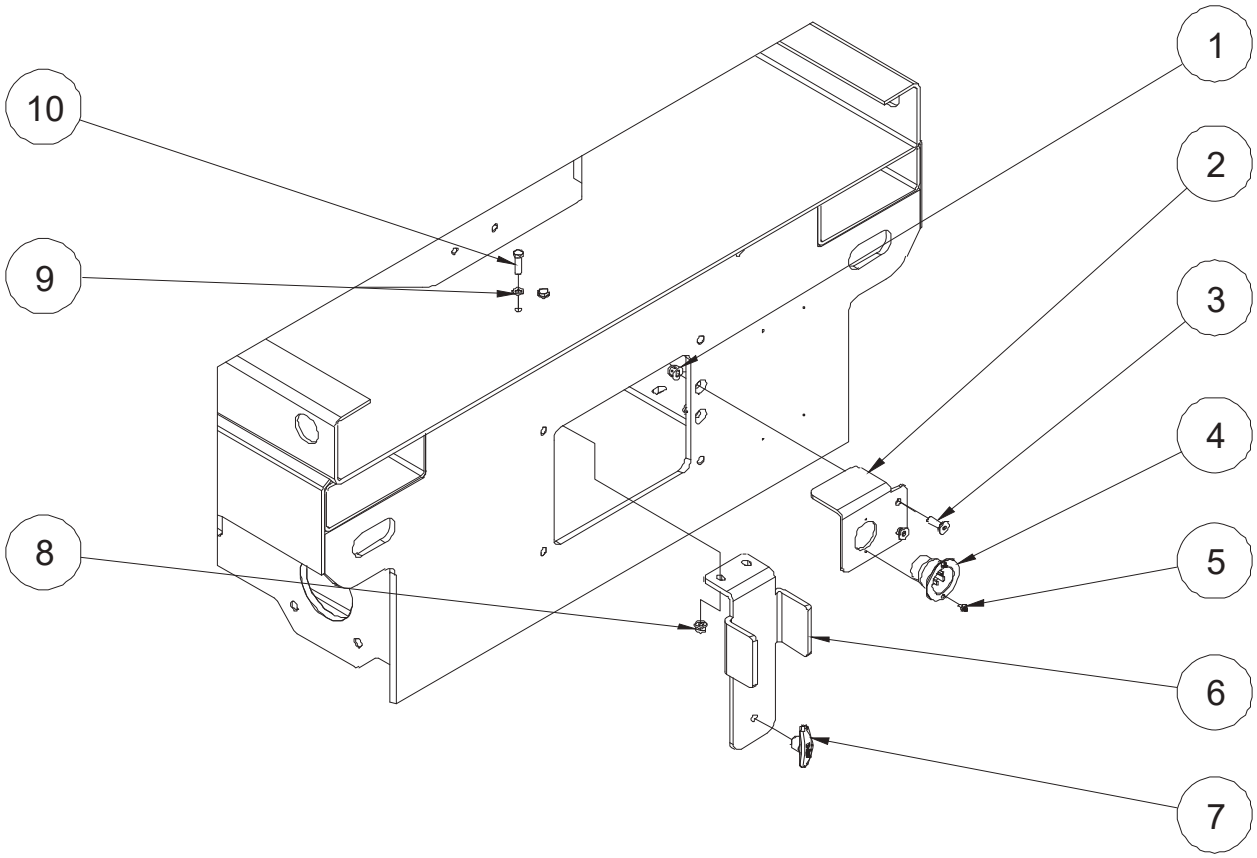


ILLUSTRATION No. ART_6099

3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Cable and Socket Installation

Item	Part Number	Description	Qty.
1	50311	Nut NNYL M10-1.50 Flange (2632SE, 3346SE, 4046SE, 4555SE)	2
2	45326	Plug Bracket (2632SE, 3346SE, 4046SE, 4555SE)	1
3	53225	Screw CSCS M10-1.50 × 30 (2632SE, 3346SE, 4046SE, 4555SE)	2
4	41575	Plug (2632SE, 3346SE, 4046SE, 4555SE)	1
5	53263	Screw THMS M04-0.70 × 8 (2632SE, 3346SE, 4046SE, 4555SE)	2
6	45327	Support (3346SE, 4046SE, 4555SE)	1
7	43367	Lowering Knob (3346SE, 4046SE, 4555SE)	1
8	50313	Nut NNYL M08-1.25 Flange (3346SE, 4046SE, 4555SE)	2
9	50001	WSHR M08 Standard Flat Washer (3346SE, 4046SE, 4555SE)	2
10	50032	Screw HHCS M08-1.25 × 30 (3346SE, 4046SE, 4555SE)	2

Counterweight and Socket Installation, 3232SE

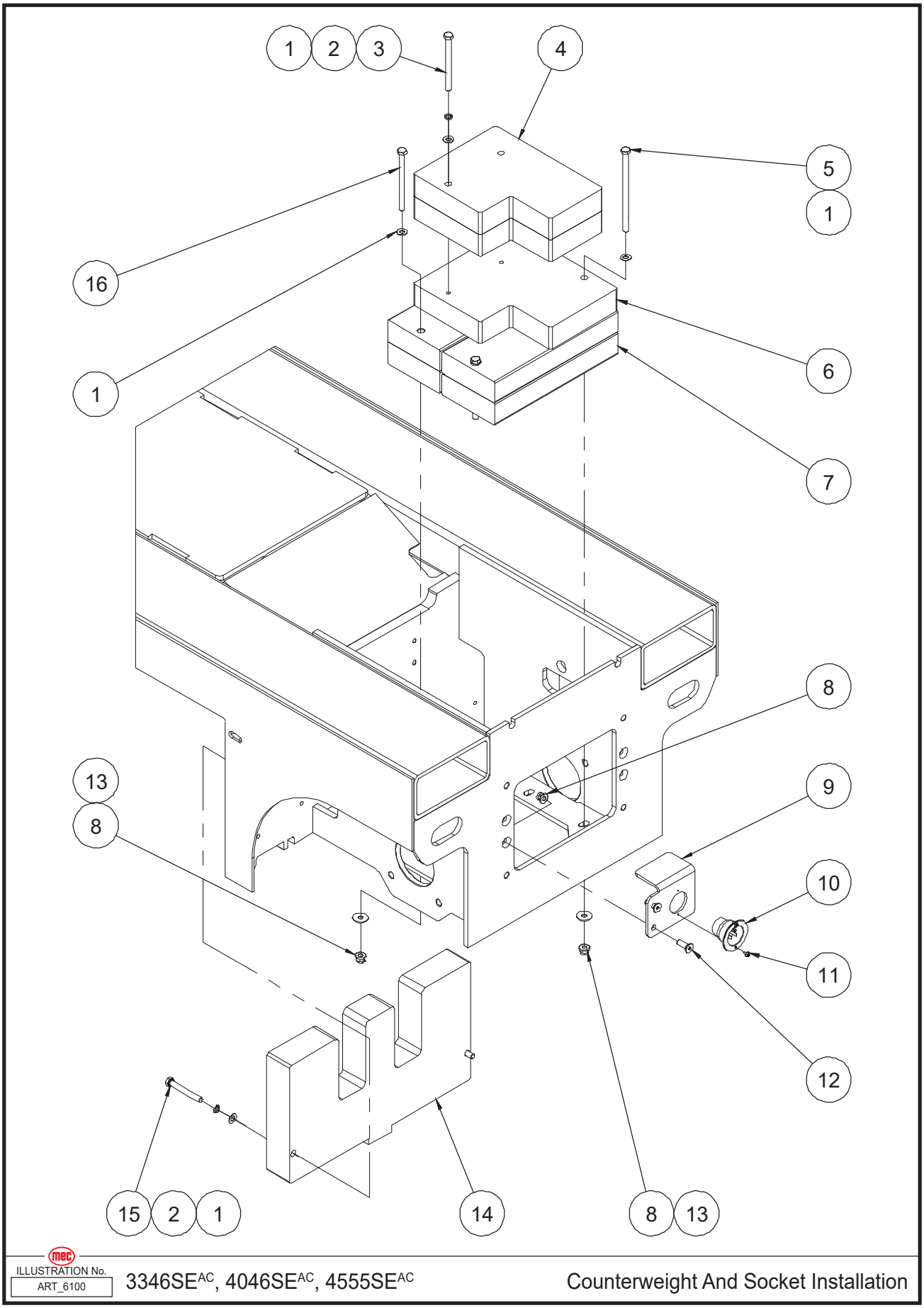


ILLUSTRATION No. ART_6100

3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Counterweight And Socket Installation

Item	Part Number	Description	Qty.
1	50002	WSHR M10 Standard Flat Washer (3232SE)	8
2	53054	WSHR M10 Spring Washer (3232SE)	4
3	50366	Screw HHCS M10-1.50 × 120 (3232SE)	2
4	45328	Counterweight 2 (3232SE)	2
5	50316	Screw HHCS M10-1.50 × 180 (3232SE)	2
6	45329	Counterweight 1 (3232SE)	1
7	45330	Counterweight 18 (3232SE)	4
8	50311	Nut NNYL M10-1.50 Flange (3232SE)	6
9	45331	Plug Bracket (3232SE)	1
10	41575	Plug (3232SE)	1
11	53263	Screw THMS M04-0.70 × 8 (3232SE)	2
12	53225	Screw CSCS M10-1.50 × 30 (3232SE)	2
13	53375	WSHR M10 Flat Fender Washer	4
14	45332	Counterweight (3232SE)	1
15	50352	Screw HHCS M10-1.50 × 80 (3232SE)	2
16	50318	Screw HHCS M10-1.50 × 130 (3232SE)	2

Scissor Assembly, 1930SE

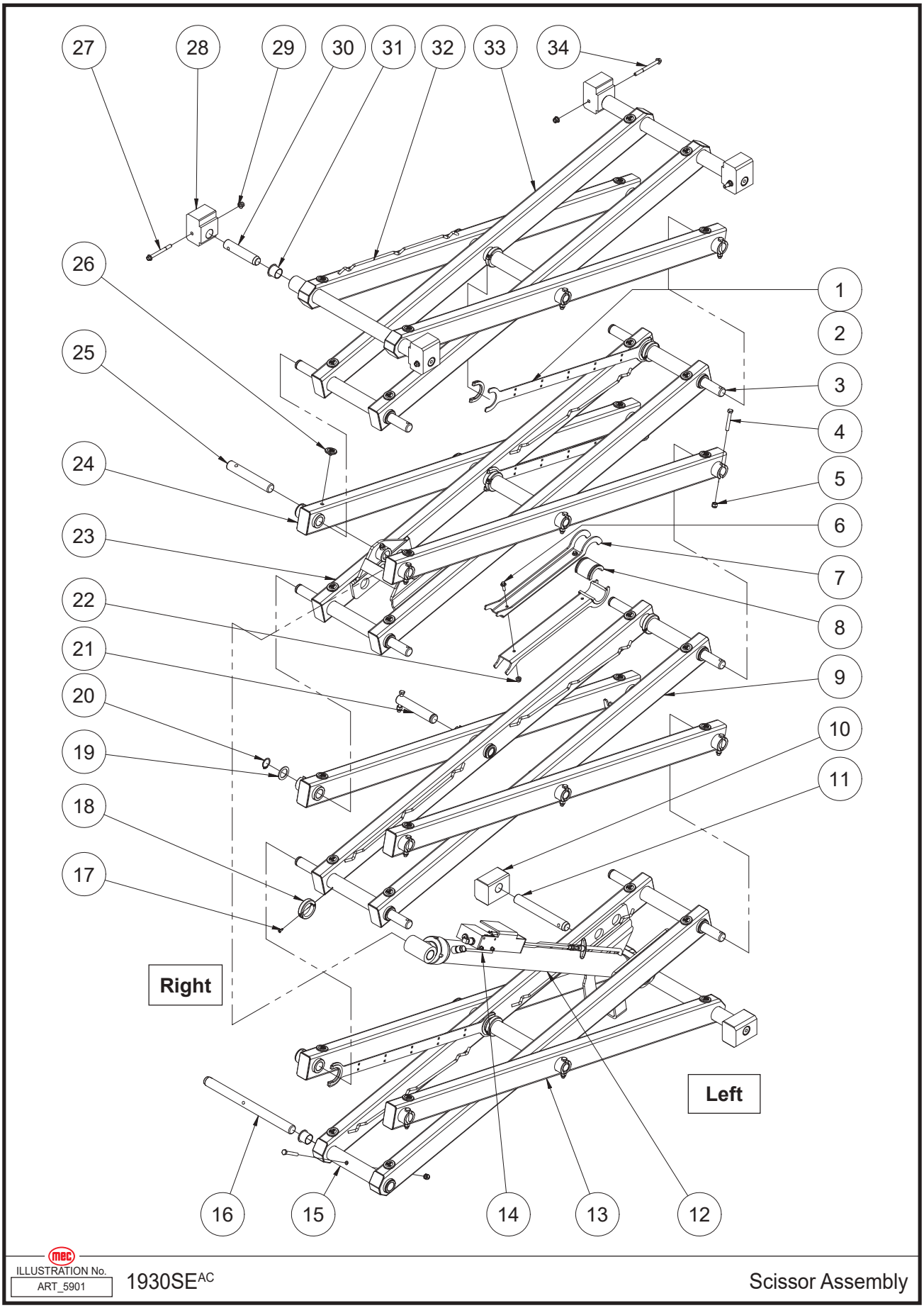


ILLUSTRATION No. ART_5901

1930SE^{AC}

Scissor Assembly

Item	Part Number	Description	Qty.
1	44897	Cable Bridge	3
2	44533	Clamp	6
3	44898	Pin	9
4	50022	Screw HHCS M10-1.50 × 70	16
5	50049	Nut NNYL M10-1.50	16
6	53270	Screw HHCS M08-1.25 × 25 Serrated Flange	2
7	41615	Safety Arm	2
8	41616	Safety Arm Bushing	2
9	44899	Inner Arm 2	1
10	41710	Chassis Slider	2
11	44900	Pin	2
12	REF	Lower Lift Cylinder Assembly (Refer to page 164)	1
13	44901	Outer Arm 1	1
14	44902	Hose	1
15	46327	Inner Arm 1	1
16	46328	Pin	1
17	53269	Screw CSCS M05-0.80 × 16	6
18	44884	Collar	6
19	41688	Washer	11
20	43597	Circlips	11
21	41689	Pin	2
22	50313	Nut NNYL M08-1.25 Flange	2
23	44905	Inner Arm 3	1
24	44906	Outer Arm 2	2
--	44907	Left Single Link	1
--	44908	Right Single Link	1
25	44909	Pin	2
26	41114	Block	32
27	53271	Screw HHCS M10-1.50 × 100 Flange	2
28	43607	Platform Slider	4
29	50311	Nut NNYL M10-1.50 Flange	4
30	44910	Pin	4
31	41706	Bearing	28
32	44911	Outer Arm 3	1
33	44912	Inner Arm 4	1
34	53267	Screw HHCS M10-1.50 × 110 Flange	2

REF - Reference

Scissor Assembly, 2632SE

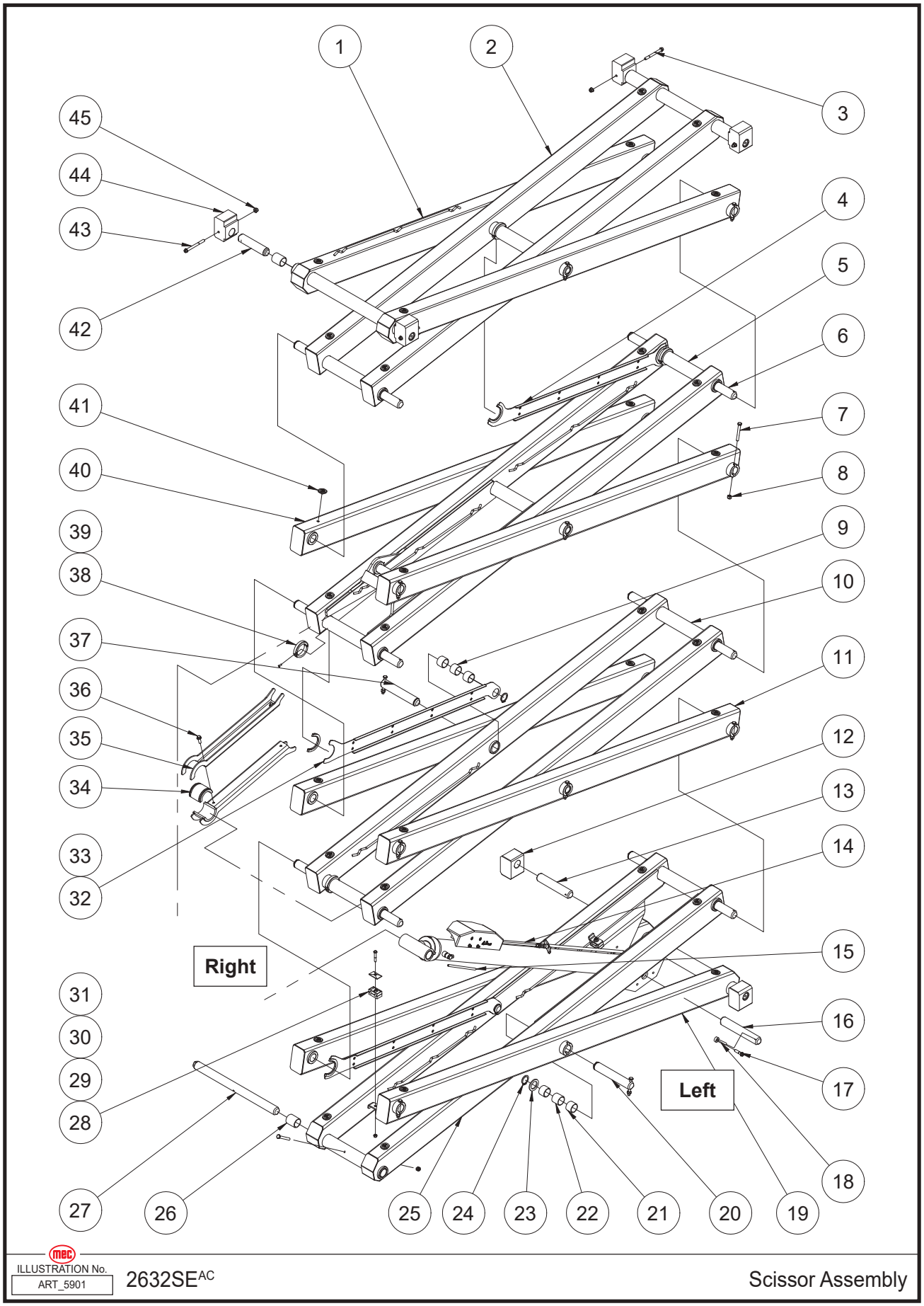


ILLUSTRATION No. ART_5901

2632SE^{AC} Scissor Assembly

Item	Part Number	Description	Qty.
1	41478	Outer Arm 3	1
2	41492	Inner Arm 4	1
3	53271	Screw HHCS M10-1.50 × 100 Flange	2
4	41117	Cable Bridge	1
5	41495	Inner Arm 3	1
6	41479	Pin	8
7	50352	Screw HHCS M10-1.50 × 80	15
8	50049	Nut NNYL M10-1.50	15
9	41116	Spacer Sleeve	2
10	44949	Inner Arm 2	1
11	41489	Outer Arm	1
--	44950	Left Single Link	1
--	44951	Right Single Link	1
12	44952	Chassis Slider	2
13	44953	Pin	2
14	REF	Lower Lift Cylinder Assembly (Refer to page 166)	1
15	44954	Hose (To Tank)	1
16	41104	Pin	2
17	53440	Screw HHCS M10-1.50 × 40 Flange	1
18	41431	Pin	2
19	44955	Outer Arm 1	1
20	41485	Pin	2
21	41105	Bearing	24
22	41487	Spacer Sleeve	2
23	41480	Washer	10
24	43248	Circlips	12
25	46385	Inner Arm 1	1
26	41103	Bearing	6
27	46386	Pin	1
28	46277	Hose Clamp	2
29	41415	Base Plate	2
30	50313	Nut NNYL M08-1.25 Flange	2
31	50015	Screw HHCS M08-1.25 × 50	2
32	44957	Cable Bridge	2
33	44534	Clamp	4
34	41109	Safety Arm Bushing	2
35	41108	Safety Arm	2
36	53268	Screw HHCS M10-1.50 × 30 Serrated Flange	3
37	41491	Pin	2
38	44958	Collar	4
39	53269	Screw CSCS M05-0.80 × 16	4
40	41499	Outer Arm 3	1
--	44950	Left Single Link	1
--	44959	Right Single Link 5	1
41	41114	Block	32

42	41102	Pin	4
43	53267	Screw HHCS M10-1.50 × 110 Flange	2
44	41519	Platform Slider	4
45	50311	Nut NNYL M10-1.50 Flange	7

Scissor Assembly, 3232SE

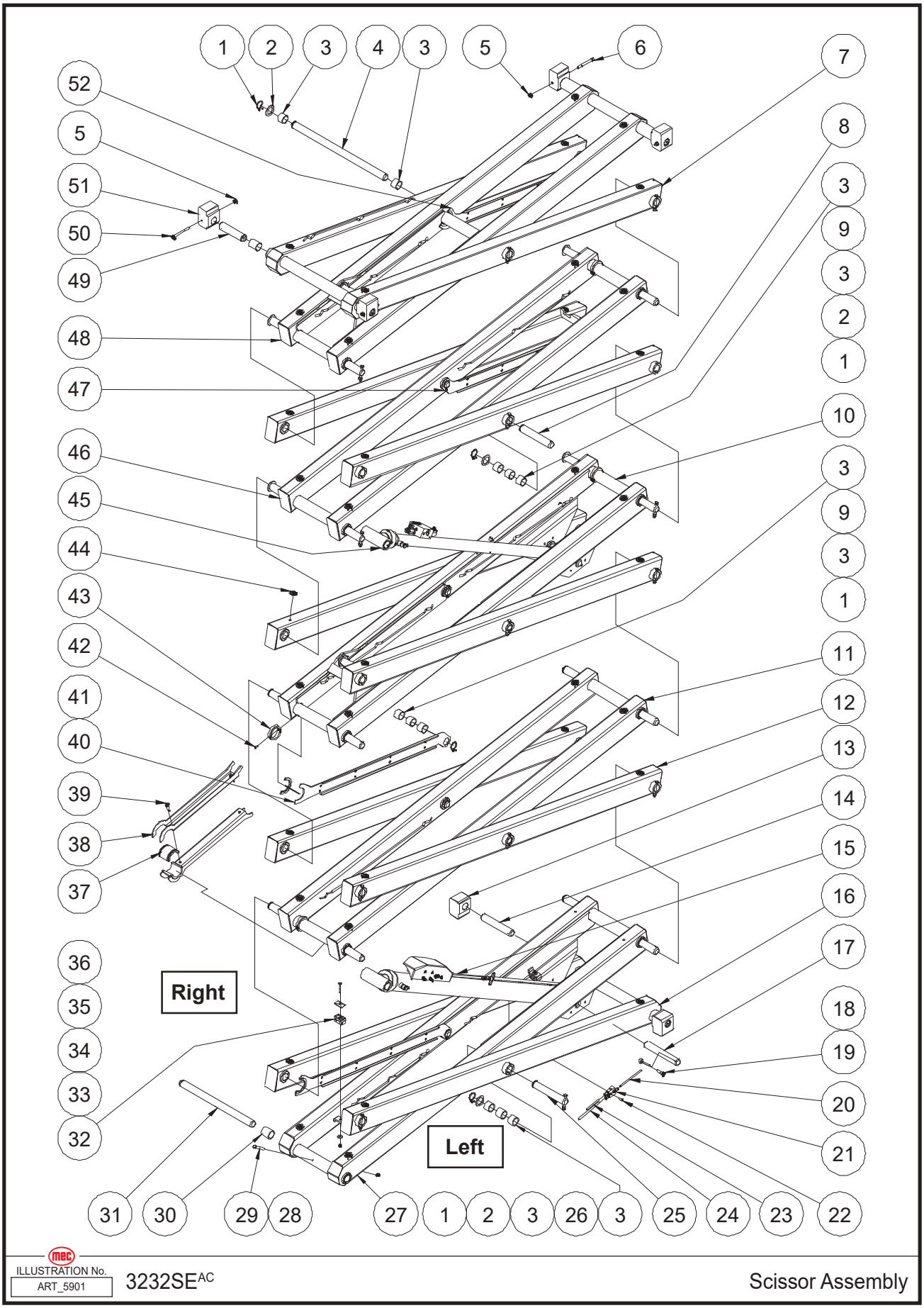


ILLUSTRATION No. ART_5901 3232SE^{AC} Scissor Assembly

Item	Part Number	Description	Qty.
1	43248	Circlips	17
2	41480	Washer	14
3	41105	Bearing	34
4	41479	Pin	9
5	50311	Nut NNYL M10-1.50 Flange	8
6	53271	Screw HHCS M10-1.50 × 100 Flange	2
7	41478	Outer Arm 3	1
8	41491	Pin	4
9	41116	Spacer Sleeve	4
10	41503	Inner Arm 3	1
11	44949	Inner Arm 2	1
12	41489	Outer Arm	3
--	44951	Right Single Link	3
--	44951	Left Single Link	3
13	45333	Chassis Slider	2
14	45334	Chassis Slider	2
15	REF	Lower Lift Cylinder Assembly (Refer to page 166)	1
16	44955	Outer Arm 1	1
17	41104	Pin	4
18	41431	Pin	4
19	53440	Screw HHCS M10-1.50 × 40 Flange	2
20	44960	Hose (To Tank)	1
21	41112	Hydraulic Hoses Manifolds	1
22	50386	Screw CSCS M06-1.00 × 25	2
23	43600	Hose (To Tank)	1
24	44961	Hose (To Tank)	1
25	41485	Pin	4
26	41487	Spacer Sleeve	4
27	46385	Inner Arm 1	1
28	50049	Nut NNYL M10-1.50	20
29	50352	Screw HHCS M10-1.50 × 80	20
30	41103	Bearing	6
31	46386	Pin	1
32	46277	Hose Clamp	2
33	41415	Base Plate	2
34	50218	WSHR M08 Flat Fender Washer	2
35	50048	Nut NNYL M08-1.25	2
36	50015	Screw HHCS M08-1.25 × 50	2
37	41109	Safety Arm Bushing	2
38	41108	Safety Arm	2
39	53268	Screw HHCS M10-1.50 × 30 Serrated Flange	4
40	44957	Cable Bridge 3	2
41	44534	Clamp	5
42	53269	Screw CSCS M05-0.80 × 16	5
43	44958	Collar 1	5

44	41114	Block	40
45	REF	Upper Lift Cylinder Assembly (Refer to page 168)	1
46	41502	Inner Arm 4	1
47	41482	Cable Bridge 1	1
48	41477	Inner Arm 3	1
49	41102	Pin	4
50	53267	Screw HHCS M10-1.50 × 110 Flange	2
51	41519	Platform Slider	4
52	41117	Cable Bridge 2	1

Scissor Assembly, 3346SE

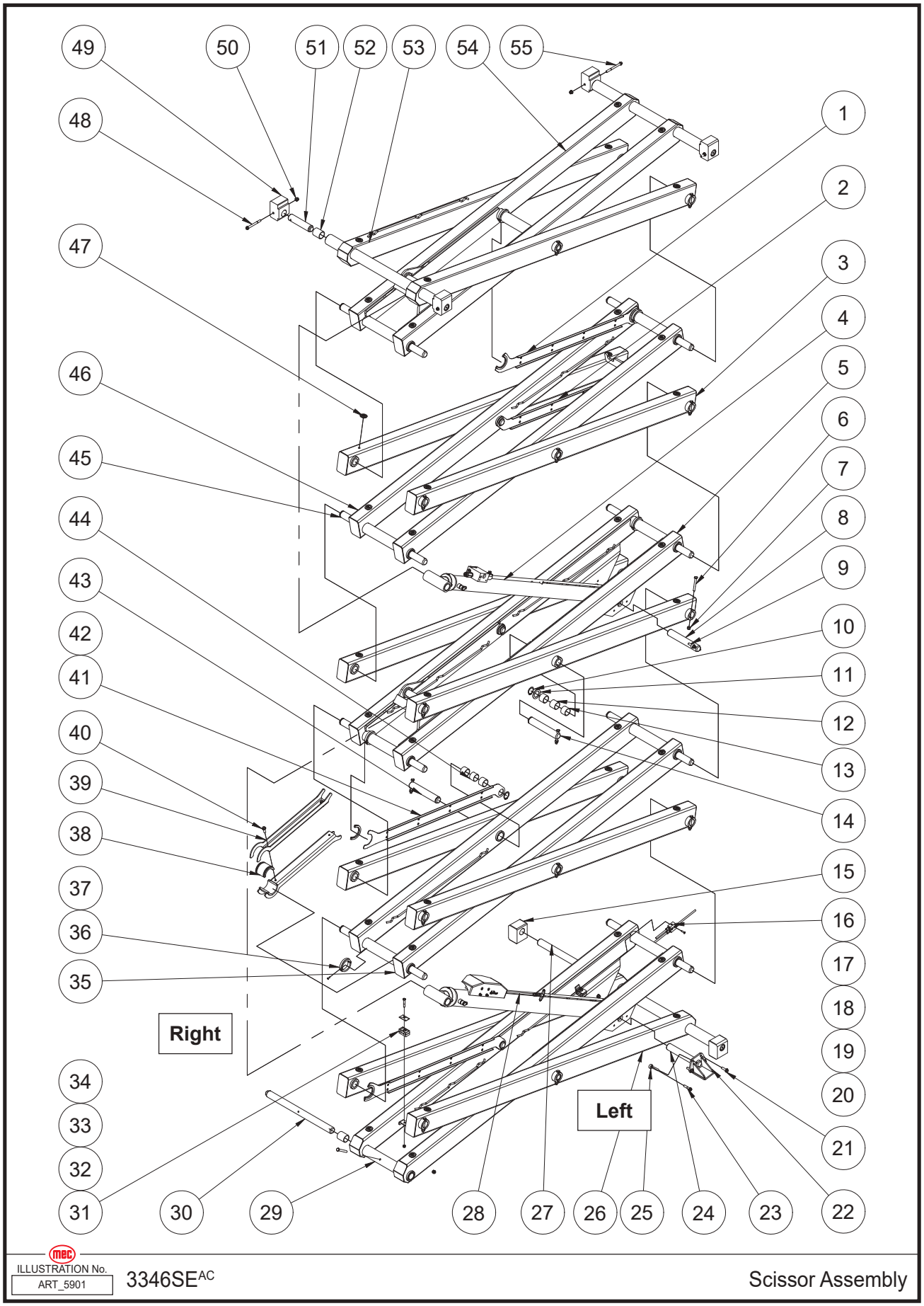


ILLUSTRATION No. ART_5901

3346SE^{AC}

Scissor Assembly

Item	Part Number	Description	Qty.
1	41117	Cable Bridge	1
2	41482	Cable Bridge	1
3	41489	Outer Arm	3
--	44950	Left Single Link	1
--	44951	Right Single Link	1
4	REF	Upper Lift Cylinder Assembly (Refer to page 168)	1
5	41503	Inner Arm 3	1
6	50352	Screw HHCS M10-1.50 × 80	20
7	50049	Nut NNYL M10-1.50	20
8	41104	Pin	3
9	53440	Screw HHCS M10-1.50 × 40 Flange	1
10	43248	Circlips	17
11	41480	Washer	14
12	41487	Spacer Sleeve	4
13	41105	Bearing	34
14	41485	Pin	4
15	44952	Chassis Slider	2
16	41112	Hydraulic Hoses Manifolds	1
17	50386	Screw CSCS M06-1.00 × 25	2
18	44960	Hose (To Upper Lift Cylinder)	1
19	44961	Hose (To Tank)	1
20	43600	Hose (To Lower Lift Cylinder)	1
21	53304	Screw HHCS M10-1.50 × 35 Serrated Flange	7
22	41113	Pothole Pusher	2
23	53441	Screw HHCS M10-1.50 × 45 Flange	1
24	41498	Pin	1
25	41431	Pin	4
26	44962	Outer Arm 1	1
27	44963	Pin	2
28	REF	Lower Lift Cylinder Assembly (Refer to page 166)	1
29	46385	Inner Arm 1	1
30	46386	Pin	1
31	46277	Hose Clamp	2
32	41415	Base Plate	2
33	50313	Nut NNYL M08-1.25 Flange	2
34	50015	Screw HHCS M08-1.25 × 50	2
35	44949	Inner Arm 2	1
36	44958	Collar	5
37	53269	Screw CSCS M05-0.80 × 16	5
38	41109	Safety Arm Bushing	2
39	41108	Safety Arm	2
40	53268	Screw HHCS M10-1.50 × 30 Serrated Flange	4
41	44957	Cable Bridge	2
42	44534	Clamp	5
43	41491	Pin	4

44	41116	Spacer Sleeve	4
45	41479	Pin	9
46	41502	Inner Arm 4	1
47	41114	Block	40
48	53271	Screw HHCS M10-1.50 × 100 Flange	2
49	41519	Platform Slider	4
50	50311	Nut NNYL M10-1.50 Flange	15
51	41102	Pin	4
52	41103	Bearing	6
53	41704	Outer Arm 5	1
54	41705	Inner Arm 5	1
55	53267	Screw HHCS M10-1.50 × 110 Flange	2

REF - Reference

Scissor Assembly, 4046SE

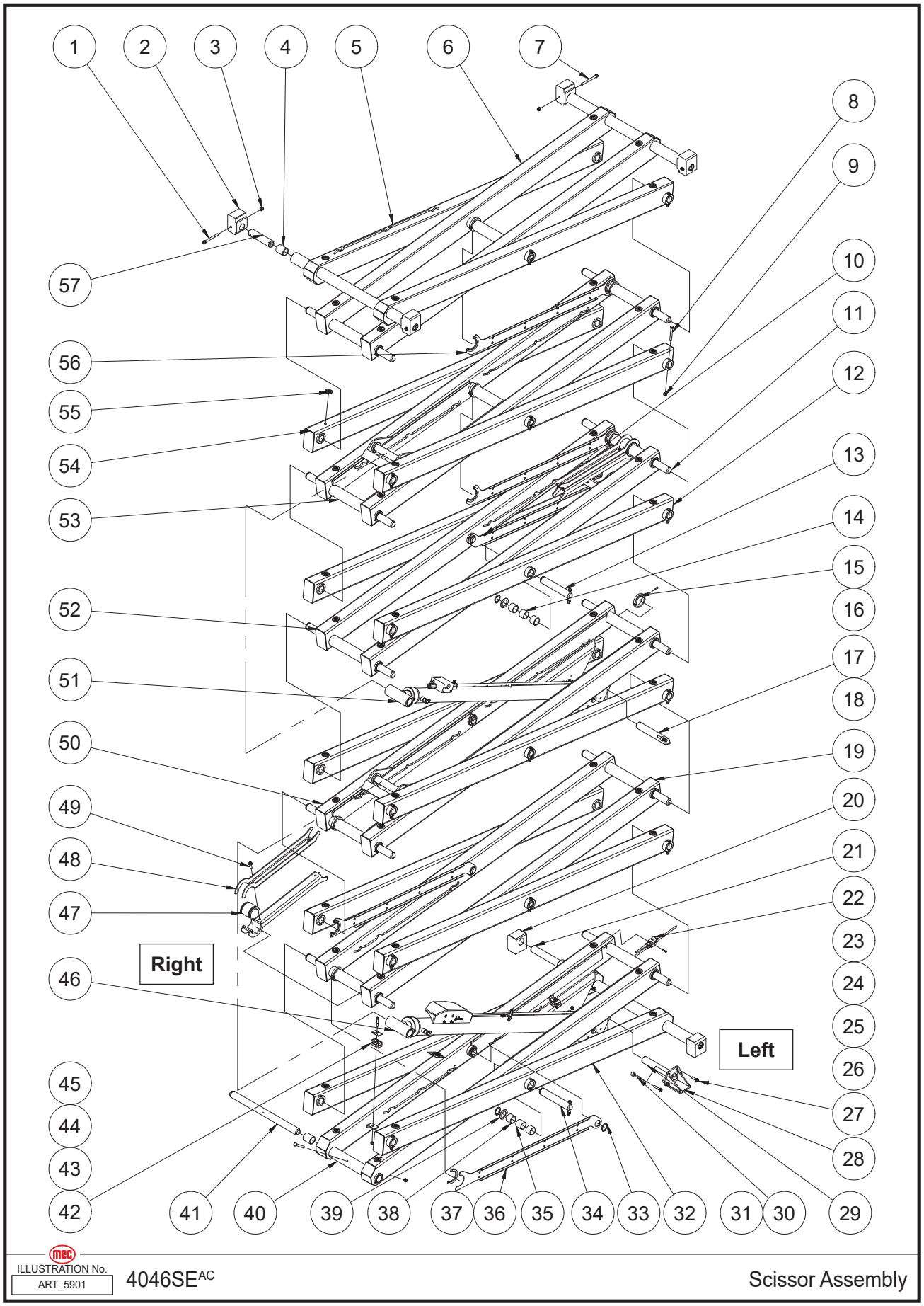


ILLUSTRATION No. ART_5901 4046SE^{AC} Scissor Assembly

Item	Part Number	Description	Qty.
1	53271	Screw HHCS M10-1.50 × 100 Flange	2
2	41519	Platform Slider	4
3	50311	Nut NNYL M10-1.50 Flange	17
4	41103	Bearing	6
5	41494	Outer Arm 5	1
6	41493	Inner Arm 4	1
7	53267	Screw HHCS M10-1.50 × 110 Flange	2
8	50352	Screw HHCS M10-1.50 × 80	23
9	50049	Nut NNYL M10-1.50	23
10	41482	Cable Bridge	1
11	41479	Pin	12
12	41489	Outer Arm	3
--	44950	Left Single Link	1
--	44951	Right Single Link	1
13	41491	Pin	4
14	41116	Spacer Sleeve	4
15	44958	Collar	7
16	53269	Screw CSCS M05-0.80 × 16	7
17	41104	Pin	3
18	53440	Screw HHCS M10-1.50 × 40 Flange	1
19	44949	Inner Arm 2	1
20	44952	Chassis Slider	2
21	44963	Pin	2
22	41112	Hydraulic Hoses Manifolds	1
23	50386	Screw CSCS M06-1.00 × 25	2
24	44960	Hose (To Upper Lift Cylinder)	1
25	44961	Hose (To Tank)	1
26	43600	Hose (To Lower Lift Cylinder)	1
27	53304	Screw HHCS M10-1.50 × 35 Serrated Flange	7
28	41113	Pothole Pusher	2
29	41498	Pin	1
30	41431	Pin	4
31	53441	Screw HHCS M10-1.50 × 45 Flange	1
32	44962	Outer Arm 1	1
33	43248	Circlips	20
34	41485	Pin	4
35	41487	Spacer Sleeve	4
36	44957	Cable Bridge	2
37	44534	Clamp	7
38	41105	Bearing	40
39	41480	Washer	17
40	46385	Inner Arm 1	1
41	46386	Pin	1
42	46277	Hose Clamp	2
43	41415	Base Plate	2

44	50313	Nut NNYL M08-1.25 Flange	2
45	50015	Screw HHCS M08-1.25 × 50	2
46	REF	Lower Lift Cylinder Assembly (Refer to page 166)	1
47	41109	Safety Arm Bushing	4
48	41108	Safety Arm	4
49	53268	Screw HHCS M10-1.50 × 30 Serrated Flange	6
50	41503	Inner Arm 3	1
51	REF	Upper Lift Cylinder Assembly (Refer to page 168)	1
52	41502	Inner Arm 4	1
53	41495	Inner Arm 3	1
54	41499	Outer Arm 3	1
--	44950	Left Single Link	1
--	44959	Right Single Link 5	1
55	41114	Block	48
56	41117	Cable Bridge	2
57	41102	Pin	4

REF - Reference

Scissor Assembly, 4555SE

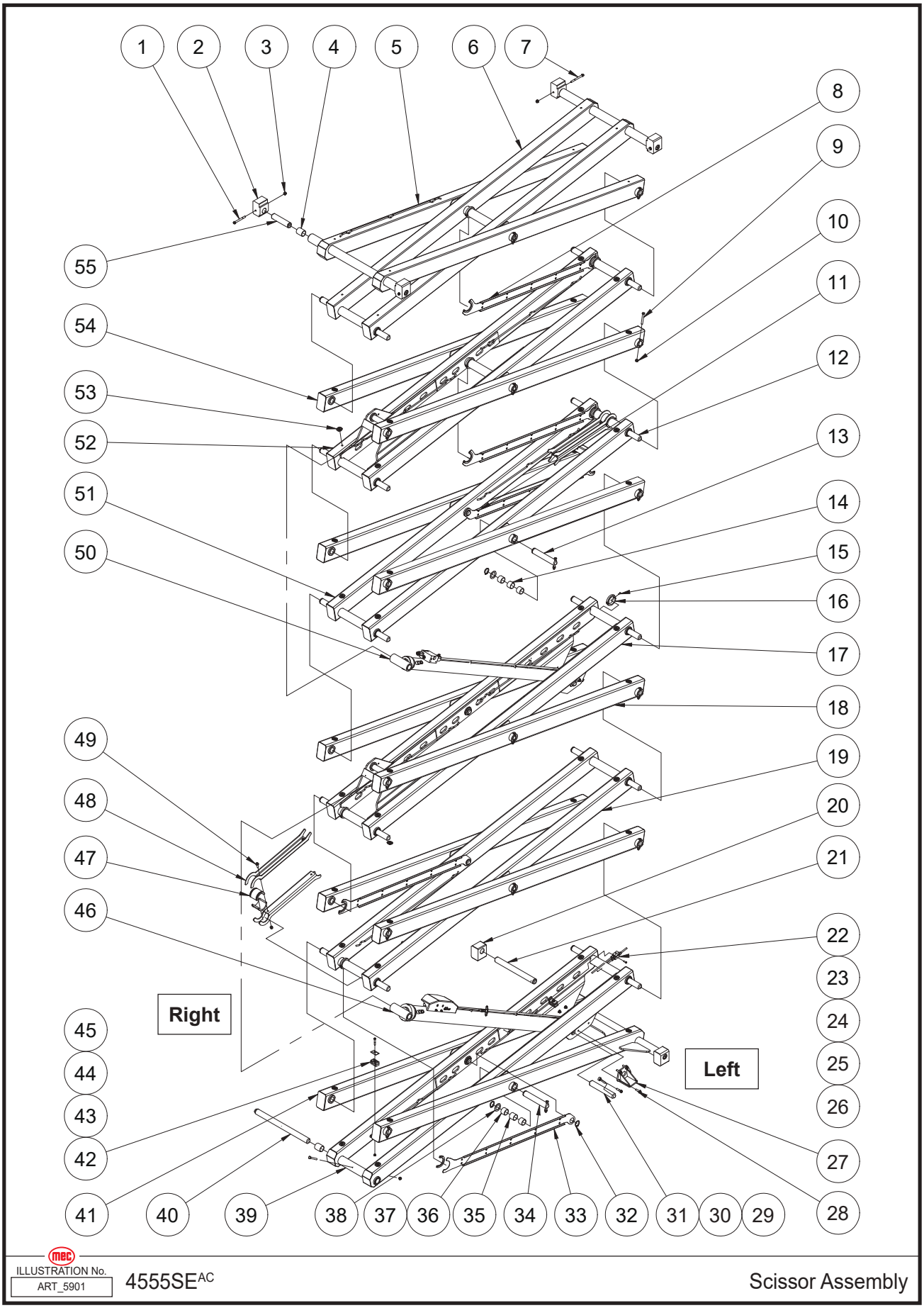


ILLUSTRATION No. ART_5901

4555SE^{AC}

Scissor Assembly

Item	Part Number	Description	Qty.
1	53271	Screw HHCS M10-1.50 × 100 Flange	2
2	41519	Platform Slider	4
3	50311	Nut NNYL M10-1.50 Flange	18
4	41103	Bearing	6
5	41507	Outer Arm 6	1
6	41506	Inner Arm 6	1
7	53267	Screw HHCS M10-1.50 × 110 Flange	2
8	41118	Cable Bridge	2
9	50352	Screw HHCS M10-1.50 × 80	23
10	50049	Nut NNYL M10-1.50	23
11	41107	Cable Bridge	1
12	41479	Pin	12
13	41491	Pin	4
14	41116	Spacer Sleeve	4
15	53269	Screw CSCS M05-0.80 × 16	7
16	44958	Collar	7
17	45335	Inner Arm 3	1
18	41510	Outer Arm 2-3	3
--	44964	Left Single Link	1
--	44965	Right Single Link	1
19	46387	Inner Arm 2	1
20	44952	Chassis Slider	2
21	44966	Pin	2
22	41112	Hydraulic Hoses Manifolds	1
23	50386	Screw CSCS M06-1.00 × 25	2
24	44967	Hose (To Upper Lift Cylinder)	1
25	44968	Hose (To Tank)	1
26	44969	Hose (To Lower Lift Cylinder)	1
27	41113	Pothole Pusher	2
28	53304	Screw HHCS M10-1.50 × 35 Serrated Flange	8
29	53440	Screw HHCS M10-1.50 × 40 Flange	2
30	41431	Pin	4
31	41104	Pin	4
32	43248	Circlips	20
33	46388	Cable Bridge	2
34	41485	Pin	4
35	41487	Spacer Sleeve	4
36	41105	Bearing	40
37	44534	Clamp	7
38	41480	Washer	17
39	46389	Inner Arm 1	1
40	46386	Pin	1
41	41515	Outer Arm 1	1
42	41417	Hose Clamp	2
43	41415	Base Plate	2

44	50313	Nut NNYL M08-1.25 Flange	2
45	50015	Screw HHCS M08-1.25 × 50	2
46	REF	Lower Lift Cylinder Assembly (Refer to page 166)	1
47	41109	Safety Arm Bushing	4
48	41108	Safety Arm	4
49	53268	Screw HHCS M10-1.50 × 30 Serrated Flange	6
50	REF	Upper Lift Cylinder Assembly (Refer to page 168)	1
51	41511	Inner Arm 4	1
52	45336	Inner Arm 5	1
53	41114	Block	48
54	41508	Outer Arm 5	1
--	44964	Left Single Link	1
--	44971	Right Single Link 5	1
55	41102	Pin	4

REF - Reference

Main Platform Assembly, 1930SE

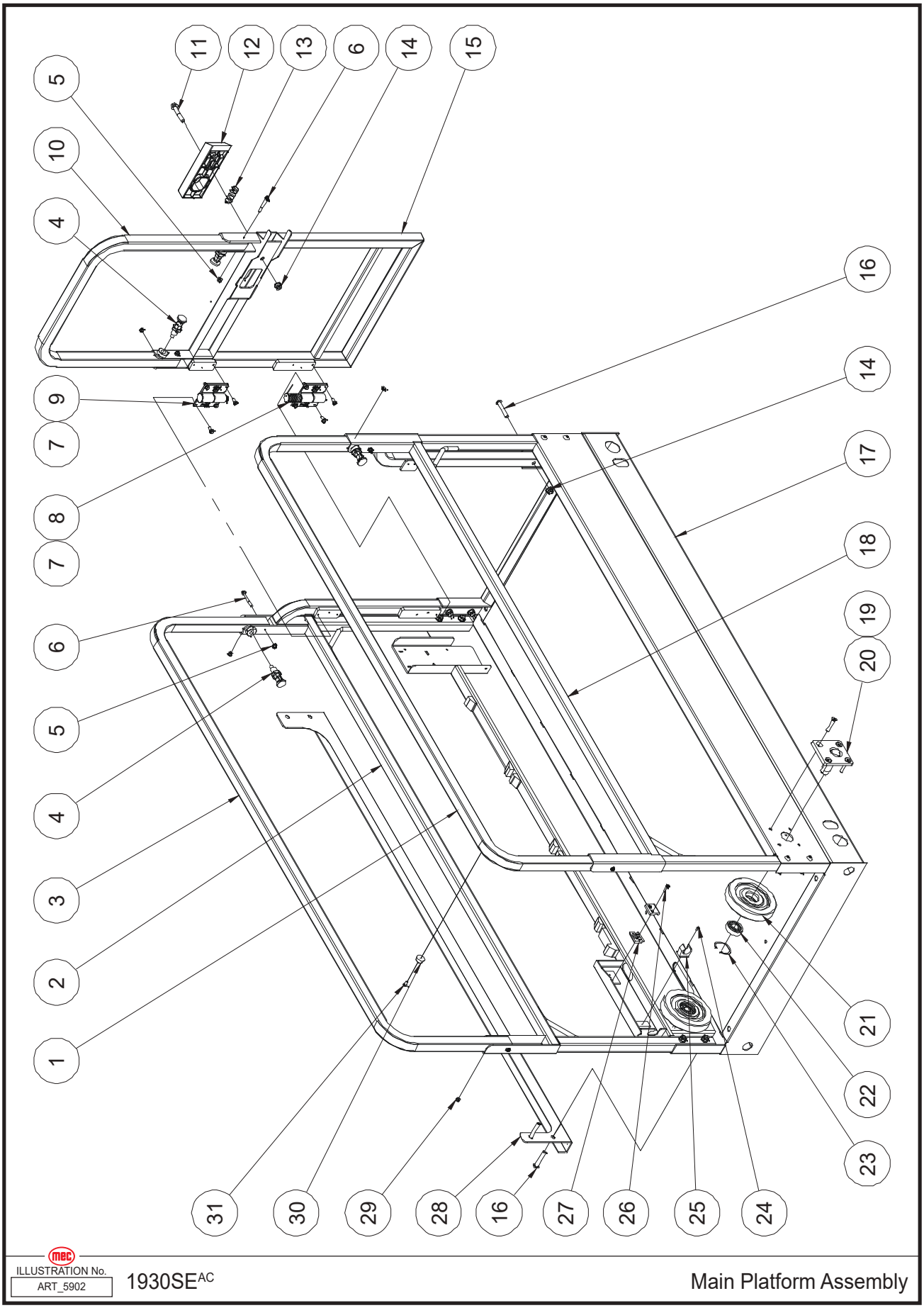


ILLUSTRATION No. ART_5902

1930SE^{AC}

Main Platform Assembly

Item	Part Number	Description	Qty.
1	46329	Upper Main Rail, Left	1
2	46330	Lower Main Rail, Right	1
3	46331	Upper Main Rail, Right	1
4	43337	Lock Pin	4
5	50568	Nut NNYL M06-1.00 Flange	6
6	53274	Screw HHCS M06-1.00 × 50 Flange	6
7	53273	Screw HHCS M06-1.00 × 14 Serrated Flange	12
8	41128	Hinge B	1
9	41127	Hinge A	1
10	43613	Door Rail	1
11	53272	Screw HHCS M10-1.50 × 55 Flange	1
12	41124	Latch Handle	1
13	41125	Spring	1
14	50311	Nut NNYL M10-1.50 Flange	13
15	43614	Entry Gate	1
16	53277	Screw BHCS M10-1.50 × 55	12
17	46332	Main Deck Weldment	1
18	46333	Lower Main Rail, Left	1
19	53275	Screw CSCS M08-1.25 × 45	8
20	41360	Roller Bracket	2
21	43617	Roller	2
22	41131	Bearing	2
23	43618	Circlips	2
24	53276	Screw PHMS M04-0.70 × 8	1
25	41134	Clip	1
26	53278	Screw SHCS M04-0.70 × 20	2
27	41059	Wire Clip	2
28	44876	Sheet Material Tray	1
29	45339	Hole Plug	6
30	41120	Bumper	1
31	53224	Screw THMS M05-0.80 × 12	1

Platform Extension Assembly, 1930SE

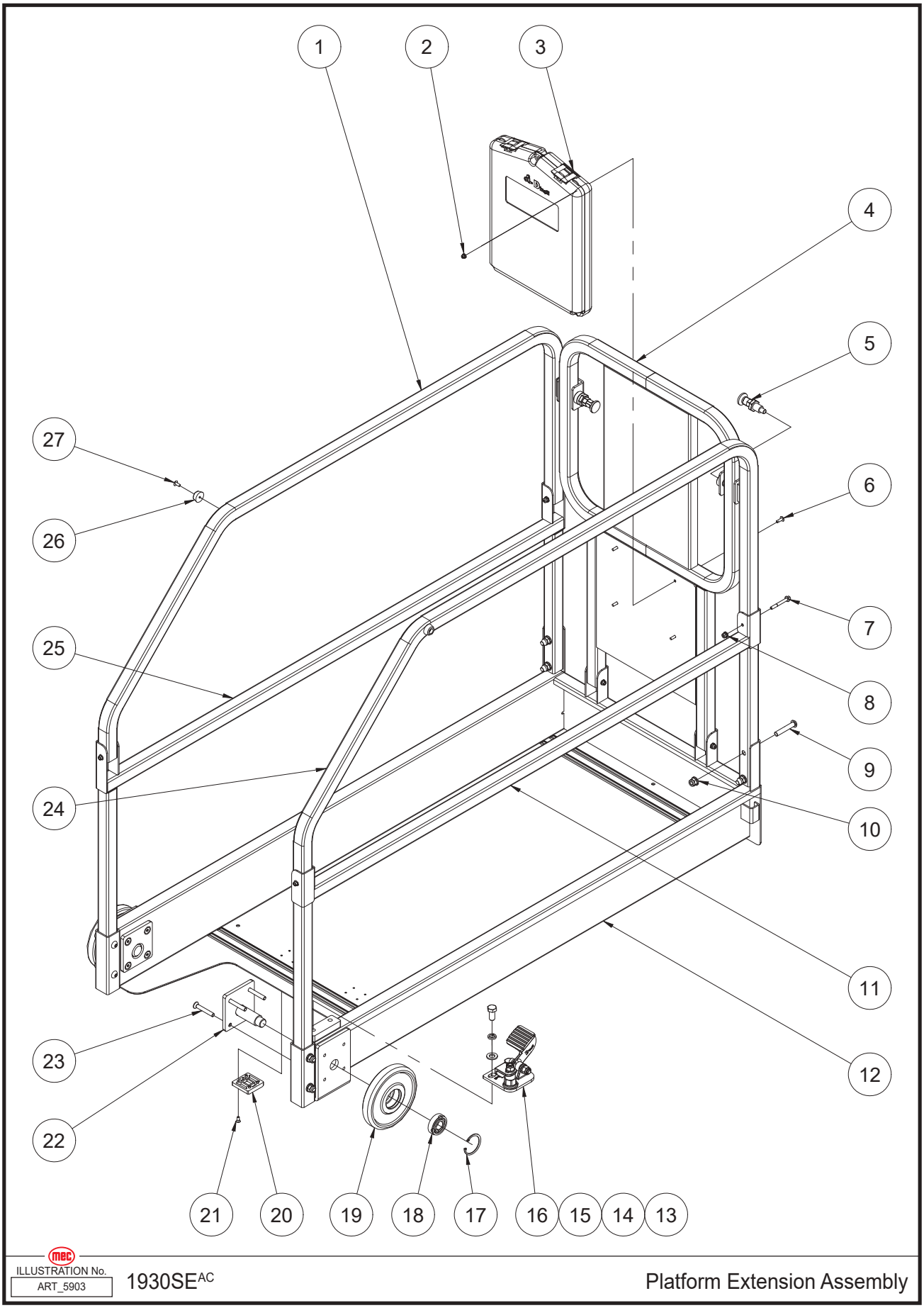


ILLUSTRATION No. ART_5903

1930SE^{AC}

Platform Extension Assembly

Item	Part Number	Description	Qty.
1	46285	Upper Extension Rail, Left	1
2	53281	Nut NNYL M05-0.80 Flange	4
3	43319	Manual Box	1
4	46286	Front Rail	1
5	43337	Inserted Pin	2
6	53223	Screw THMS M05-0.80 × 16	4
7	53274	Screw HHCS M06-1.00 × 50 Flange	7
8	50568	Nut NNYL M06-1.00 Flange	7
9	53277	Screw BHCS M10-1.50 × 55	8
10	50311	Nut NNYL M10-1.50 Flange	8
11	44881	Lower Extension Rail, Right	1
12	46287	Extension Deck Weldment	1
13	50038	Screw HHCS M12-1.75 × 25	2
14	53148	WSHR M12 Spring Washer	2
15	50003	WSHR M12 Standard Flat Washer	2
16	44599	Platform Locking Device Assembly (Refer to page 156)	1
17	43618	Circlips	2
18	41131	Bearing	2
19	41141	Roller	2
20	41284	Slide Pad	2
21	53279	Screw CSCS M05-0.80 × 12	8
22	41360	Roller Bracket	2
23	53280	Screw CSCS M08-1.25 × 55	8
24	46288	Upper Extension Rail, Right	1
25	44883	Lower Extension Rail, Left	1
26	41120	Bumper	3
27	53224	Screw THMS M05-0.80 × 12	3

Main Platform Assembly, 2632SE

Check Serial Number

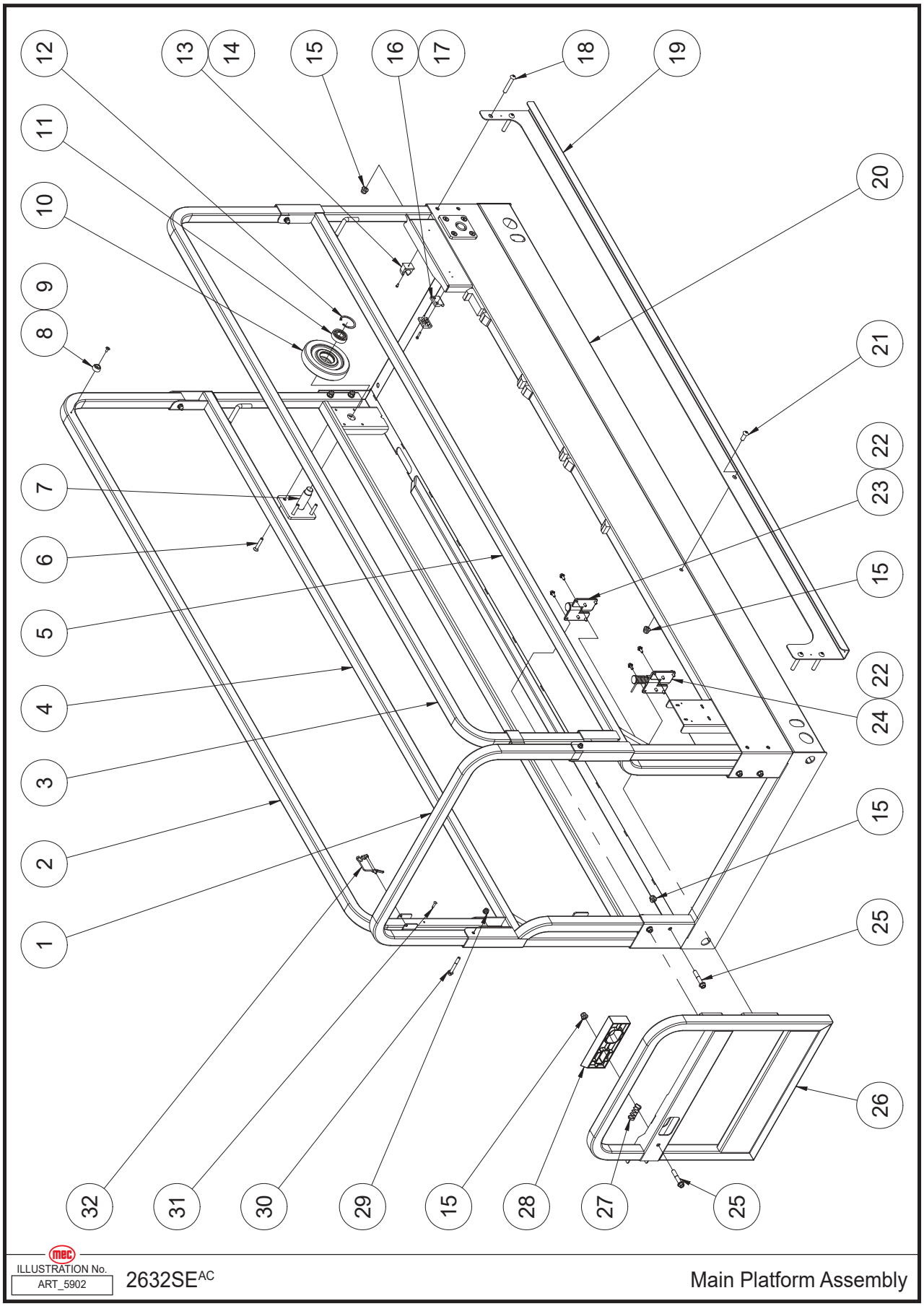


ILLUSTRATION No. ART_5902

2632SE^{AC}

Main Platform Assembly

Item	Part Number	Description	Qty.
1	44972	Rear Rail	1
2	44973	Upper Main Rail, Left	1
3	41520	Upper Main Rail, Right	1
4	44974	Lower Main Rail, Left	1
5	44975	Lower Main Rail, Right	1
6	53275	Screw CSCS M08-1.25 × 45	8
7	41360	Roller Bracket	4
8	41120	Bumper	3
9	53224	Screw THMS M05-0.80 × 12	3
10	43617	Roller	2
11	41131	Bearing	4
12	43618	Circlips	4
13	41134	Clip	1
14	53276	Screw PHMS M04-0.70 × 8	1
15	50311	Nut NNYL M10-1.50 Flange	22
16	41059	Wire Clip	2
17	53278	Screw SHCS M04-0.70 × 20	2
18	53295	Screw GB/T 70.2 M10×60	4
19	46390	Sheet Material Tray	1
20	46391	Main Deck Weldment	1
21	50297	Screw BHCS M10-1.50 × 25	1
22	53273	Screw HHCS M06-1.00 × 14 Serrated Flange	12
23	41127	Hinge A	1
24	41128	Hinge B	1
25	53272	Screw HHCS M10-1.50 × 55 Flange	17
26	44978	Entry Gate	1
27	41125	Spring	1
28	41124	Latch Handle	1
29	50313	Nut NNYL M08-1.25 Flange	12
30	53442	Screw HHCS M08-1.25 × 60 Flange	12
31	43301	Rivet	4
32	41357	Inserted Pin	4

Platform Extension Assembly, 2632SE

Check Serial Number

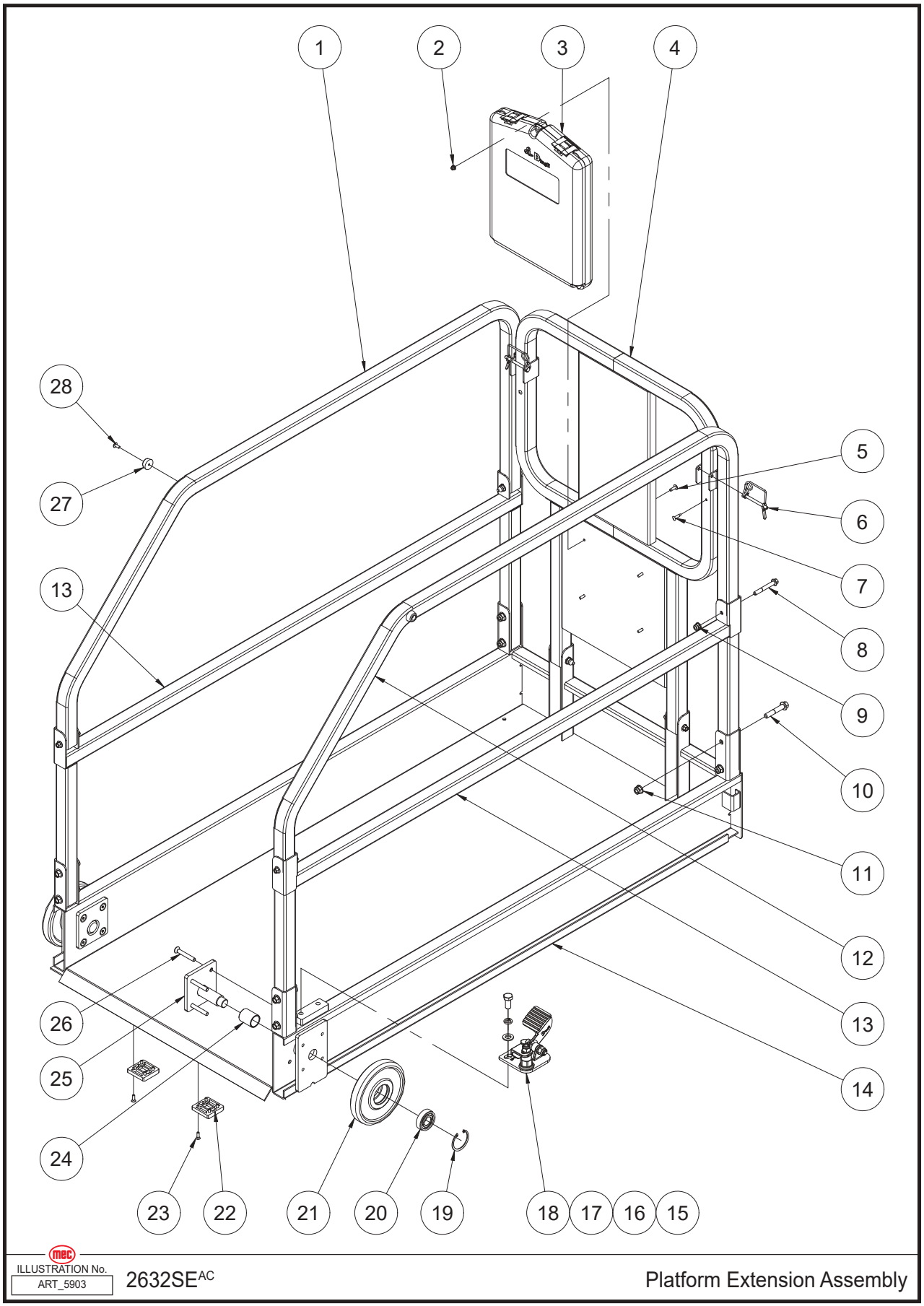


ILLUSTRATION No. ART_5903

2632SE^{AC}

Platform Extension Assembly

Item	Part Number	Description	Qty.
1	44979	Left Extension Rail	1
2	53281	Nut NNYL M05-0.80 Flange	4
3	43319	Manual Box	1
4	41531	Front Rail	1
5	53223	Screw THMS M05-0.80 × 16	4
6	41357	Inserted Pin	2
7	43301	Rivet	2
8	53442	Screw HHCS M08-1.25 × 60 Flange	6
9	50313	Nut NNYL M08-1.25 Flange	6
10	53272	Screw HHCS M10-1.50 × 55 Flange	8
11	50311	Nut NNYL M10-1.50 Flange	8
12	41530	Right Extension Rail	1
13	44980	Lower Extension Rail	2
14	46392	Extension Deck Weldment	1
15	50038	Screw HHCS M12-1.50 × 25	2
16	53148	WSHR M12 Spring Washer	2
17	50003	WSHR M12 Standard Flat Washer	2
18	REF	Platform Locking Device Assembly (Refer to page 156)	1
19	43618	Circlips	2
20	41131	Bearing	2
21	41141	Roller 2	2
22	41284	Slide Pad	2
23	53269	Screw CSCS M05-0.80 × 16	8
24	46393	Bearing	2
25	41360	Roller Bracket	2
26	53280	Screw CSCS M08-1.25 × 55	8
27	41120	Bumper	2
28	53224	Screw THMS M05-0.80 × 12	2

Main Platform Assembly, 2632SE

Check Serial Number

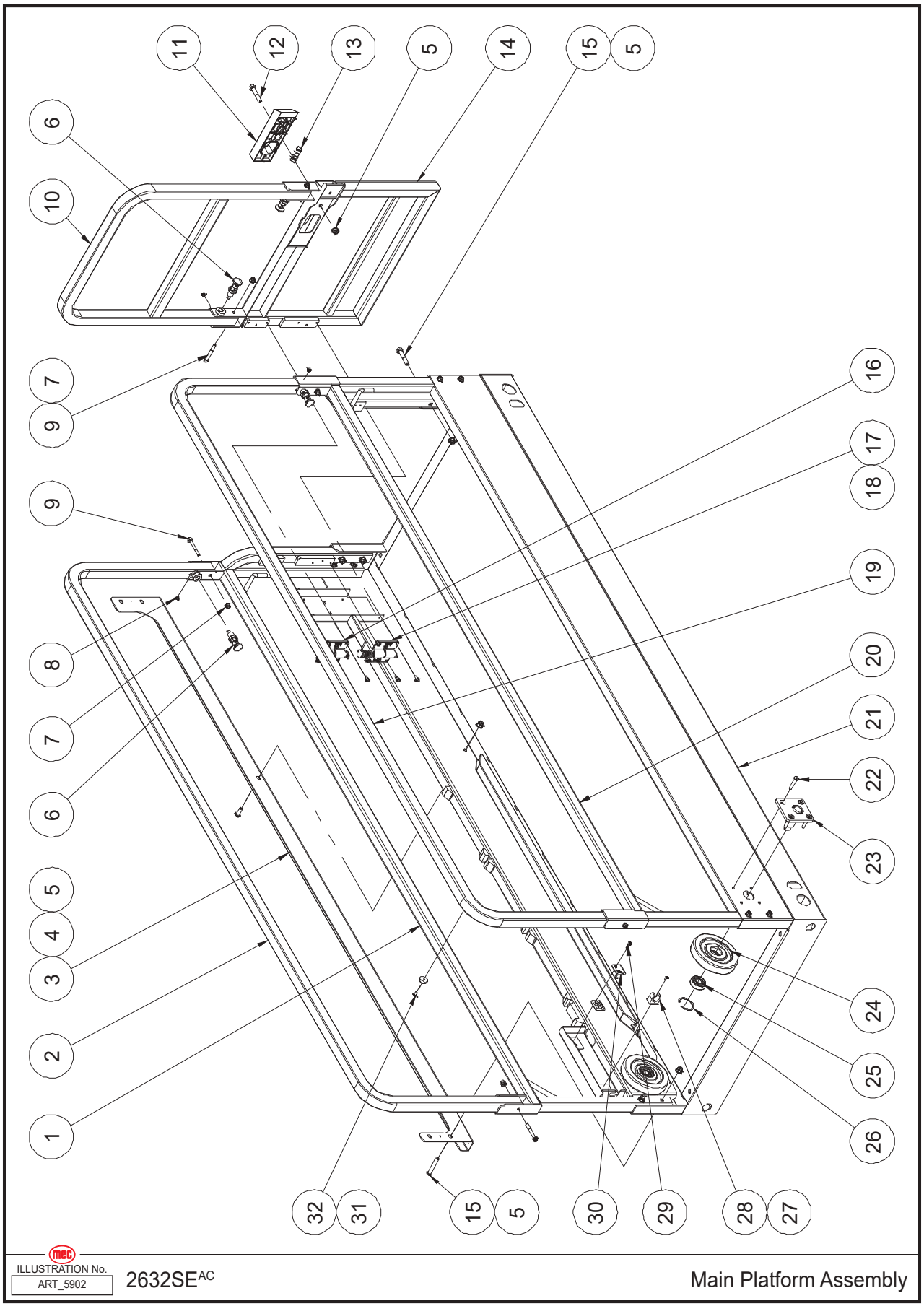


ILLUSTRATION No. ART_5902

2632SE^{AC}

Main Platform Assembly

Item	Part Number	Description	Qty.
1	45337	Lower Main Rail, Right	1
2	45338	Upper Main Rail, Right	1
3	46390	Sheet Material Tray	1
4	50297	Screw BHCS M10-1.50 × 25	1
5	50311	Nut NNYL M10-1.50 Flange	13
6	43337	Lock Pin	4
7	50313	Nut NNYL M08-1.25 Flange	6
8	45339	Hole Plug	6
9	53442	Screw HHCS M08-1.25 × 60 Flange	6
10	45340	Door Rail	1
11	41124	Latch Handle	1
12	53272	Screw HHCS M10-1.50 × 55 Flange	1
13	41125	Spring	1
14	45341	Entry Gate	1
15	53277	Screw BHCS M10-1.50 × 55	12
16	41127	Hinge A	1
17	41128	Hinge B	1
18	53273	Screw HHCS M06-1.00 × 14 Serrated Flange	12
19	45342	Upper Main Rail, Left	1
20	45343	Lower Main Rail, Left	1
21	46391	Main Deck Weldment	1
22	53275	Screw CSCS M08-1.25 × 45	8
23	41360	Roller Bracket	2
24	43617	Roller	2
25	41131	Bearing	2
26	43618	Circlips	2
27	53276	Screw PHMS M04-0.70 × 8	1
28	41134	Clip	1
29	53278	Screw SHCS M04-0.70 × 20	2
30	41059	Wire Clip	2
31	41120	Bumper	1
32	53224	Screw THMS M05-0.80 × 12	1

Platform Extension Assembly, 2632SE

Check Serial Number

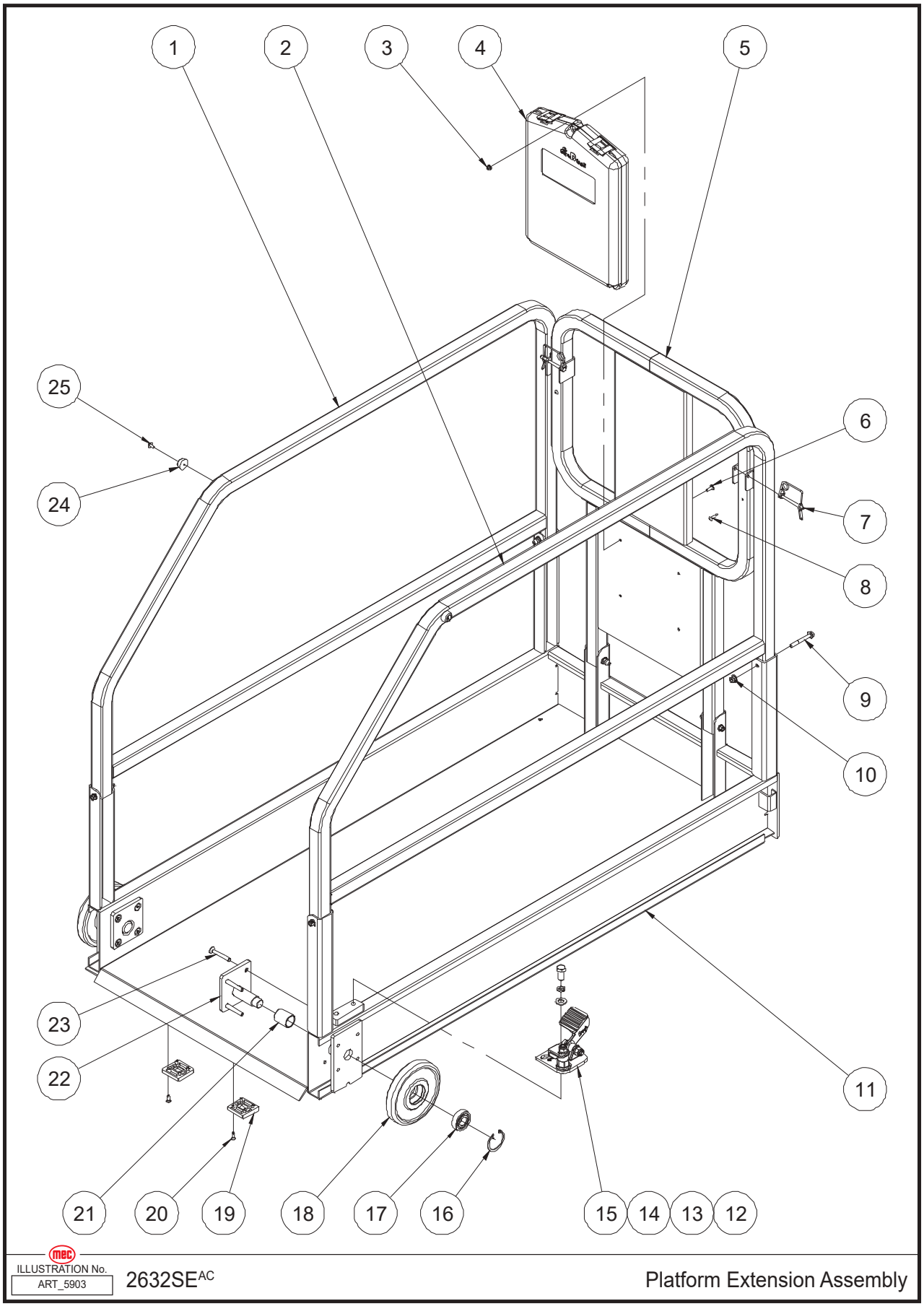


ILLUSTRATION No. ART_5903

2632SE^{AC}

Platform Extension Assembly

Item	Part Number	Description	Qty.
1	45344	Left Extension Rail	1
2	45345	Right Extension Rail	1
3	53281	Nut NNYL M05-0.80 Flange	1
4	43319	Manual Box	1
5	41531	Front Rail	1
6	53223	Screw THMS M05-0.80 × 16	1
7	41357	Inserted Pin	2
8	43301	Rivet	2
9	53442	Screw HHCS M08-1.25 × 60 Flange	6
10	50313	Nut NNYL M08-1.25 Flange	6
11	45346	Extension Deck Weldment	1
12	50038	Screw HHCS M12-1.75 × 25	1
13	53148	WSHR M12 Spring Washer	1
14	50003	WSHR M12 Standard Flat Washer	1
15	44599	Platform Locking Device Assembly (Refer to page 156)	1
16	43618	Circlips	2
17	41131	Bearing	2
18	41141	Roller 2	2
19	41284	Slide Pad	2
20	53269	Screw CSCS M05-0.80 × 16	8
21	46393	Bearing	2
22	41360	Roller Bracket	2
23	53280	Screw CSCS M08-1.25 × 55	8
24	41120	Bumper	2
25	53224	Screw THMS M05-0.80 × 12	2

Main Platform Assembly, 3232SE

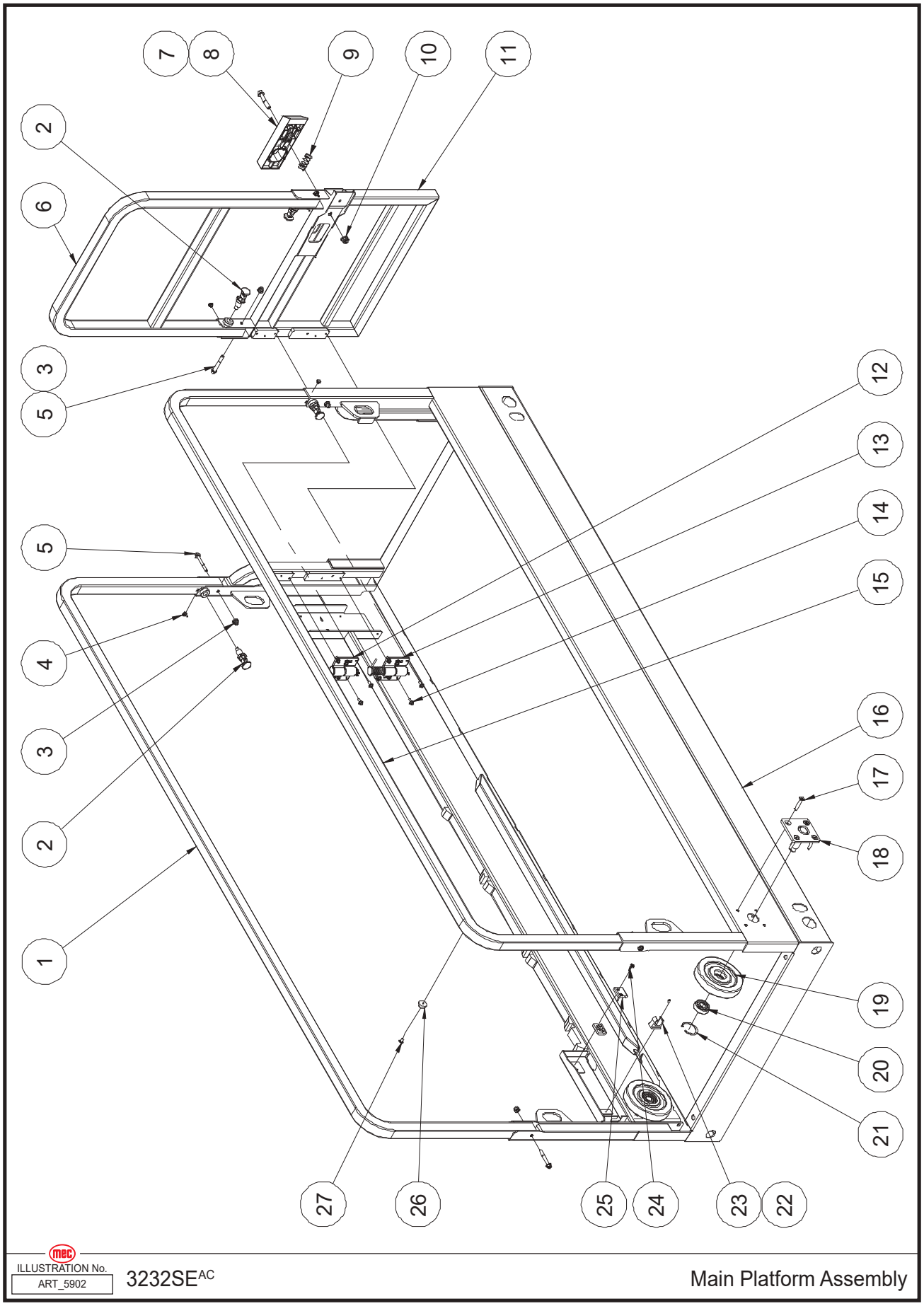


ILLUSTRATION No. ART_5902

3232SE^{AC}

Main Platform Assembly

Item	Part Number	Description	Qty.
1	45347	Right Main Rail	1
2	43337	Lock Pin	4
3	50313	Nut NNYL M08-1.25 Flange	6
4	45339	Hole Plug	6
5	53442	Screw HHCS M08-1.25 × 60 Flange	6
6	45348	Door Rail	1
7	53272	Screw HHCS M10-1.50 × 55 Flange	1
8	41124	Latch Handle	1
9	41125	Spring	1
10	50311	Nut NNYL M10-1.50 Flange	1
11	45349	Entry Gate	1
12	41127	Hinge A	1
13	41128	Hinge B	1
14	53273	Screw HHCS M06-1.00 × 14 Serrated Flange	12
15	45350	Left Main Rail	1
16	45351	Main Deck Weldment	1
17	53275	Screw CSCS M08-1.25 × 45	8
18	41360	Roller Bracket	2
19	43617	Roller	2
20	41131	Bearing	2
21	43618	Circlips	2
22	53276	Screw PHMS M04-0.70 × 8	1
23	41134	Clip	1
24	53278	Screw SHCS M04-0.70 × 20	2
25	41059	Wire Clip	2
26	41120	Bumper	1
27	53224	Screw THMS M05-0.80 × 12	1

Platform Extension Assembly, 3232SE

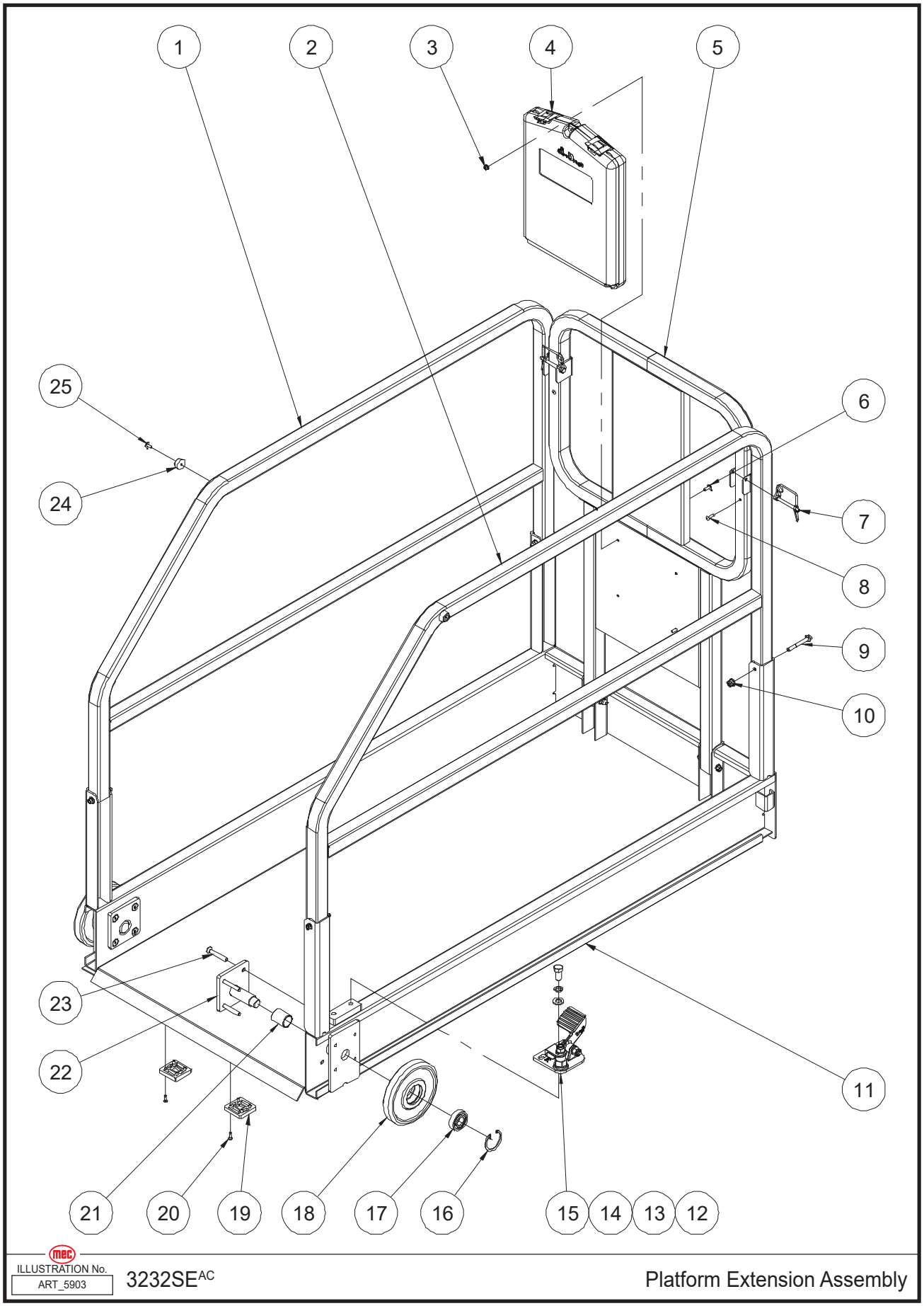


ILLUSTRATION No. ART_5903

3232SE^{AC}

Platform Extension Assembly

Item	Part Number	Description	Qty.
1	45352	Left Extension Rail	1
2	45353	Right Extension Rail	1
3	53281	Nut NNYL M05-0.80 Flange	1
4	43319	Manual Box	1
5	45354	Front Rail	1
6	53223	Screw THMS M05-0.80 × 16	1
7	41357	Inserted Pin	2
8	43301	Rivet	2
9	53442	Screw HHCS M08-1.25 × 60 Flange	6
10	50313	Nut NNYL M08-1.25 Flange	6
11	45355	Extension Deck Weldment	1
12	50038	Screw HHCS M12-1.75 × 25	1
13	53148	WSHR M12 Spring Washer	1
14	50003	WSHR M12 Standard Flat Washer	1
15	44599	Platform Locking Device Assembly (Refer to page 156)	1
16	43618	Circlips	2
17	41131	Bearing	2
18	41141	Roller 2	2
19	41284	Slide Pad	2
20	53269	Screw CSCS M05-0.80 × 16	8
21	46393	Bearing	2
22	41360	Roller Bracket	2
23	53280	Screw CSCS M08-1.25 × 55	8
24	41120	Bumper	2
25	53224	Screw THMS M05-0.80 × 12	2

Main Platform Assembly, 3346SE

Check Serial Number

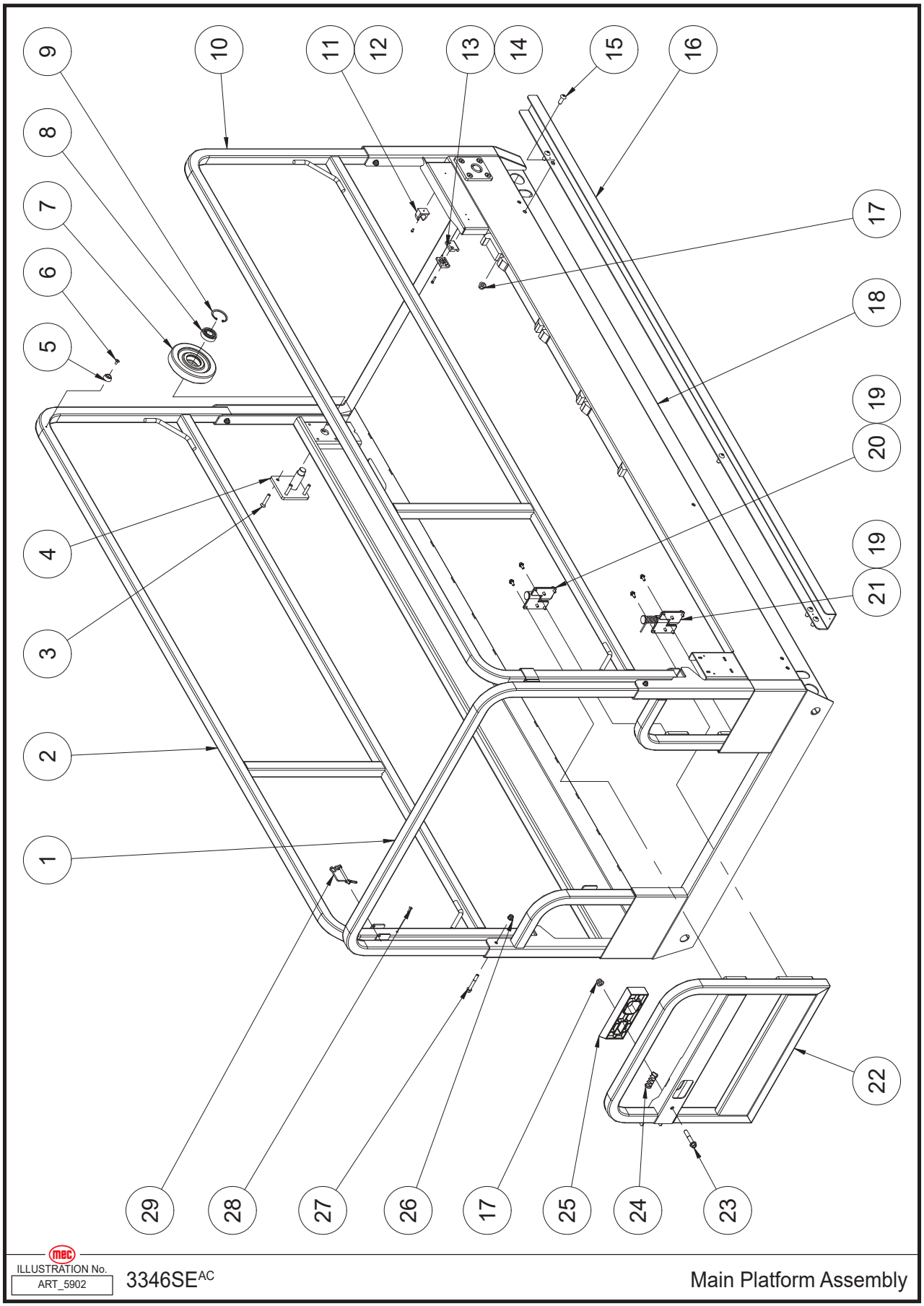


ILLUSTRATION No. ART_5902

3346SE^{AC}

Main Platform Assembly

Item	Part Number	Description	Qty.
1	43541	Rear Rail	1
2	46394	Left Main Rail	1
3	53275	Screw CSCS M08-1.25 × 45	8
4	41360	Roller Bracket	2
5	41120	Bumper	1
6	53224	Screw THMS M05-0.80 × 12	1
7	43617	Roller	2
8	41131	Bearing	2
9	43618	Circlips	2
10	46395	Right Main Rail	1
11	41134	Clip	1
12	53276	Screw PHMS M04-0.70 × 8	1
13	41059	Wire Clip	2
14	53278	Screw SHCS M04-0.70 × 20	2
15	50297	Screw BHCS M10-1.50 × 25	5
16	46396	Sheet Material Tray	1
17	50311	Nut NNYL M10-1.50 Flange	6
18	46397	Main Deck Weldment	1
19	53273	Screw HHCS M06-1.00 × 14 Serrated Flange	12
20	41127	Hinge A	1
21	41128	Hinge B	1
22	41589	Entry Gate	1
23	53272	Screw HHCS M10-1.50 × 55 Flange	1
24	41125	Spring	1
25	41124	Latch Handle	1
26	50313	Nut NNYL M08-1.25 Flange	6
27	53442	Screw HHCS M08-1.25 × 60 Flange	6
28	43301	Rivet	2
29	41357	Inserted Pin	2

Main Platform Assembly, 4046SE-4555SE

Check Serial Number

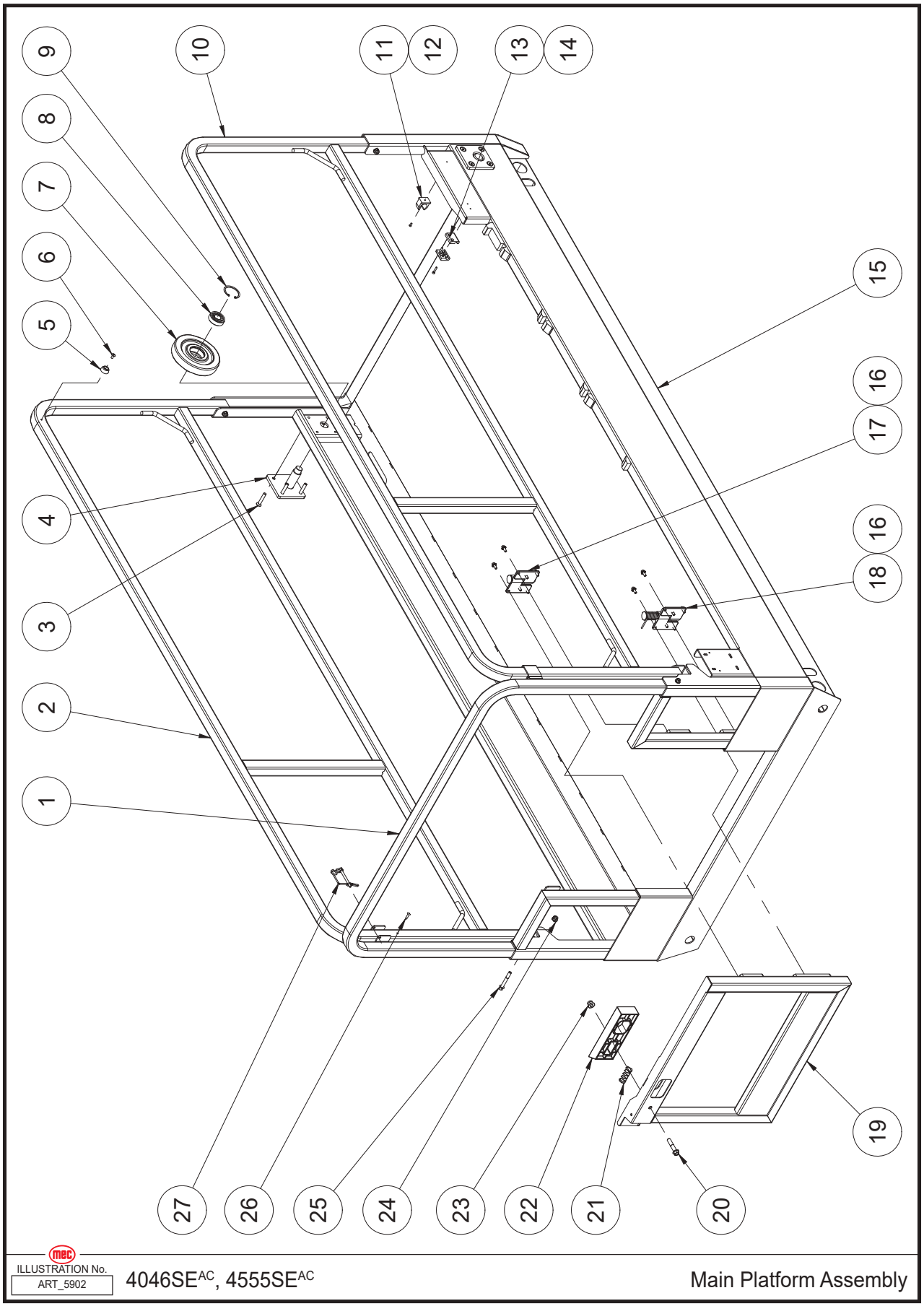


ILLUSTRATION No. ART_5902

4046SE^{AC}, 4555SE^{AC} Main Platform Assembly

Item	Part Number	Description	Qty.
1	44983	Rear Rail	1
2	46394	Left Main Rail (4046SE)	1
	41122	Left Main Rail (4555SE)	1
3	53275	Screw CSCS M08-1.25 × 45	8
4	41360	Roller Bracket	2
5	41120	Bumper	1
6	53224	Screw THMS M05-0.80 × 12	1
7	43617	Roller	2
8	41131	Bearing	2
9	43618	Circlips	2
10	46395	Right Main Rail (4046SE)	1
	41119	Right Main Rail (4555SE)	1
11	41134	Clip	1
12	53276	Screw PHMS M04-0.70 × 8	1
13	41059	Wire clip	2
14	53278	Screw SHCS M04-0.70 × 20	2
15	46398	Main Deck Weldment (4046SE)	1
	46399	Main Deck Weldment (4555SE)	1
16	53273	Screw HHCS M06-1.00 × 14 Serrated Flange	12
17	41127	Hinge A	1
18	41128	Hinge B	1
19	44986	Entry Gate	1
20	53443	Screw HHCS M10-1.50 × 50 Flange	1
21	41125	Spring	1
22	41124	Latch Handle	1
23	50311	Nut NNYL M10-1.50 Flange	1
24	50313	Nut NNYL M08-1.25 Flange	6
25	53442	Screw HHCS M08-1.25 × 60 Flange	6
26	43301	Rivet	2
27	41357	Inserted Pin	2

Main Platform Assembly, 3346SE-4555SE

Check Serial Number

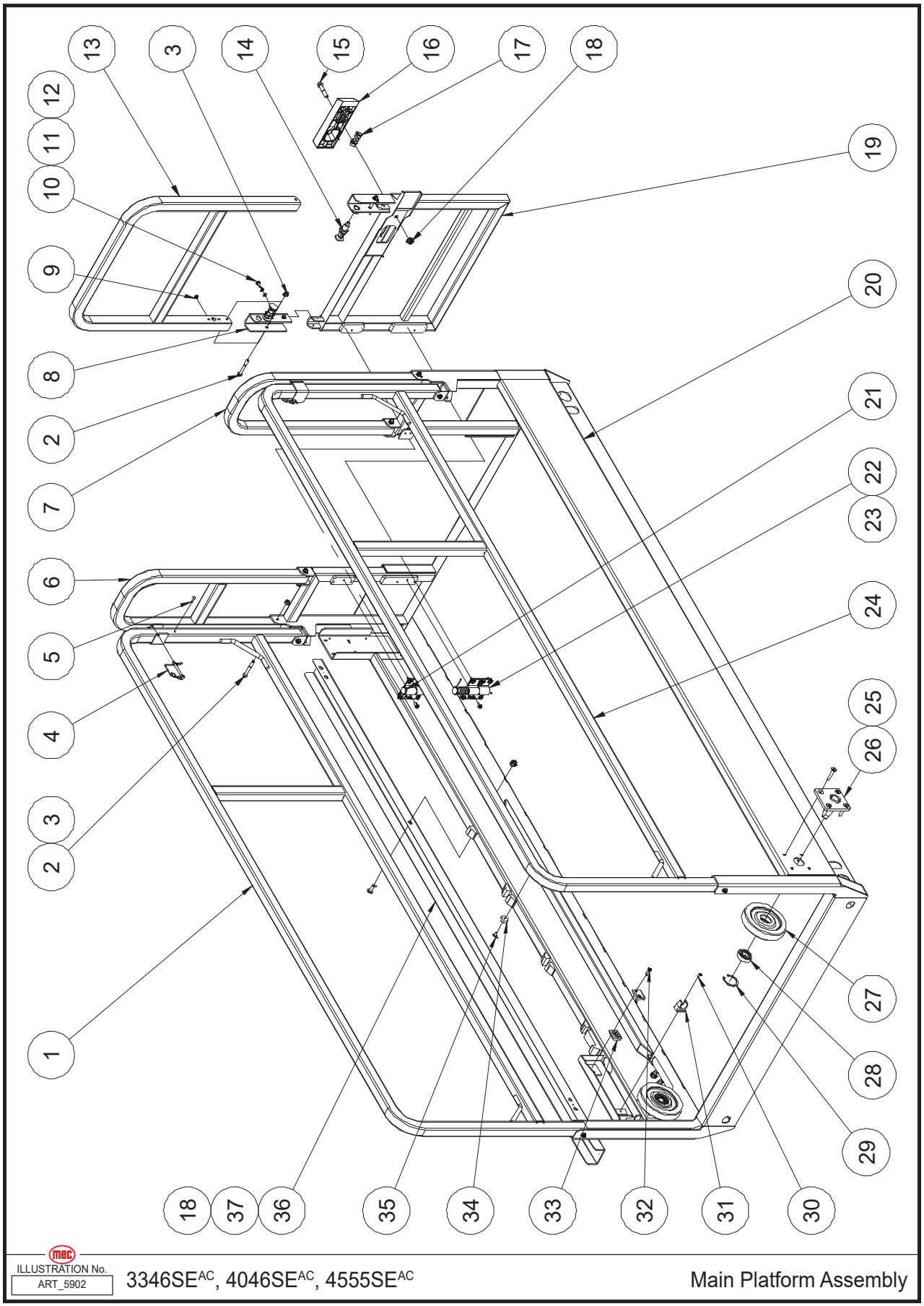


ILLUSTRATION No. ART_5902

3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Main Platform Assembly

Item	Part Number	Description	Qty.
1	46395	Right Main Rail (3346SE, 4046SE)	1
	41119	Right Main Rail (4555SE)	1
2	53442	Screw HHCS M08-1.25 × 60 Flange	8
3	50313	Nut NNYL M08-1.25 Flange	8
4	41357	Inserted Pin	2
5	43301	Rivet	2
6	45376	Rear Rail, Right	1
7	45377	Rear Rail, Left	1
8	45378	Door Guard Support	1
9	45339	Hole Plug	2
10	50445	Screw HHCS M06-1.00 × 16	4
11	53046	WSHR M06 Spring Washer	4
12	50000	WSHR M06 Standard Flat Washer	4
13	45379	Door Rail	1
14	43337	Lock Pin	2
15	53443	Screw HHCS M10-1.50 × 50 Flange	1
16	41124	Latch Handle	1
17	41125	Spring	1
18	50311	Nut NNYL M10-1.50 Flange	6
19	45380	Entry Gate	1
20	45381	Main Deck Weldment (3346SE)	1
	45382	Main Deck Weldment (4046SE)	1
	45383	Main Deck Weldment (4555SE)	1
21	41127	Hinge A	1
22	41128	Hinge B	1
23	53273	Screw HHCS M06-1.00 × 14 Serrated Flange	12
24	46394	Left Main Rail (3346SE, 4046SE)	1
	41122	Left Main Rail (4555SE)	1
25	53275	Screw CSCS M08-1.25 × 45	8
26	41360	Roller Bracket	2
27	43617	Roller	2
28	41131	Bearing	2
29	43618	Circlips	2
30	53276	Screw PHMS M04-0.70 × 8	1
31	41134	Clip	1
32	53278	Screw SHCS M04-0.70 × 20	2
33	41059	Wire Clip	2
34	41120	Bumper	1
35	53224	Screw THMS M05-0.80 × 12	1
36	46396	Sheet Material Tray (3346SE)	1
37	50297	Screw BHCS M10-1.50 × 25 (3346SE)	5

Platform Extension Assembly, 3346SE-4555SE

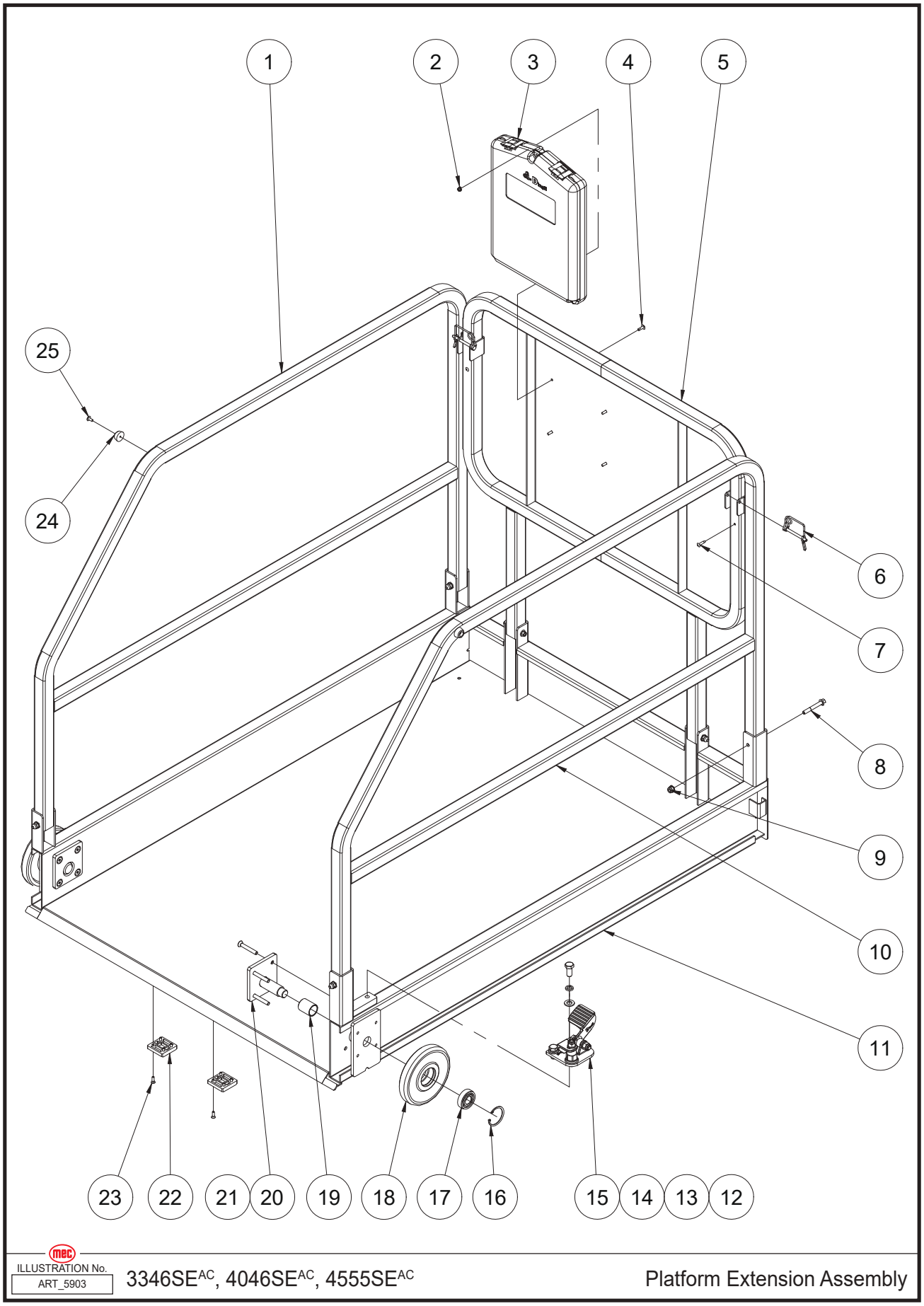


ILLUSTRATION No. ART_5903

3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Platform Extension Assembly

Item	Part Number	Description	Qty.
1	41135	Left Extension Rail	1
2	53281	Nut NNYL M05-0.80 Flange	4
3	43319	Manual Box	1
4	53223	Screw THMS M05-0.80 × 16	4
5	41136	Front Rail	1
6	41357	Inserted Pin	2
7	43301	Rivet	2
8	53442	Screw HHCS M08-1.25 × 60 Flange	6
9	50313	Nut NNYL M08-1.25 Flange	6
10	41139	Right Extension Rail	1
11	46400	Extension Deck Weldment	1
12	50038	Screw HHCS M12-1.75 × 25	2
13	53148	WSHR M12 Spring Washer	2
14	50003	WSHR M12 Standard Flat Washer	2
15	44599	Platform Locking Device Assembly (Refer to page 156)	1
16	43618	Circlips	2
17	41131	Bearing	2
18	41141	Roller 2	2
19	46393	Bearing	2
20	41360	Roller Bracket	2
21	53280	Screw CSCS M08-1.25 × 55	8
22	41284	Slide Pad	2
23	53269	Screw CSCS M05-0.80 × 16	8
24	41120	Bumper	2
25	53224	Screw THMS M05-0.80 × 12	2

Platform Locking Device Assembly, 1930SE-4555SE

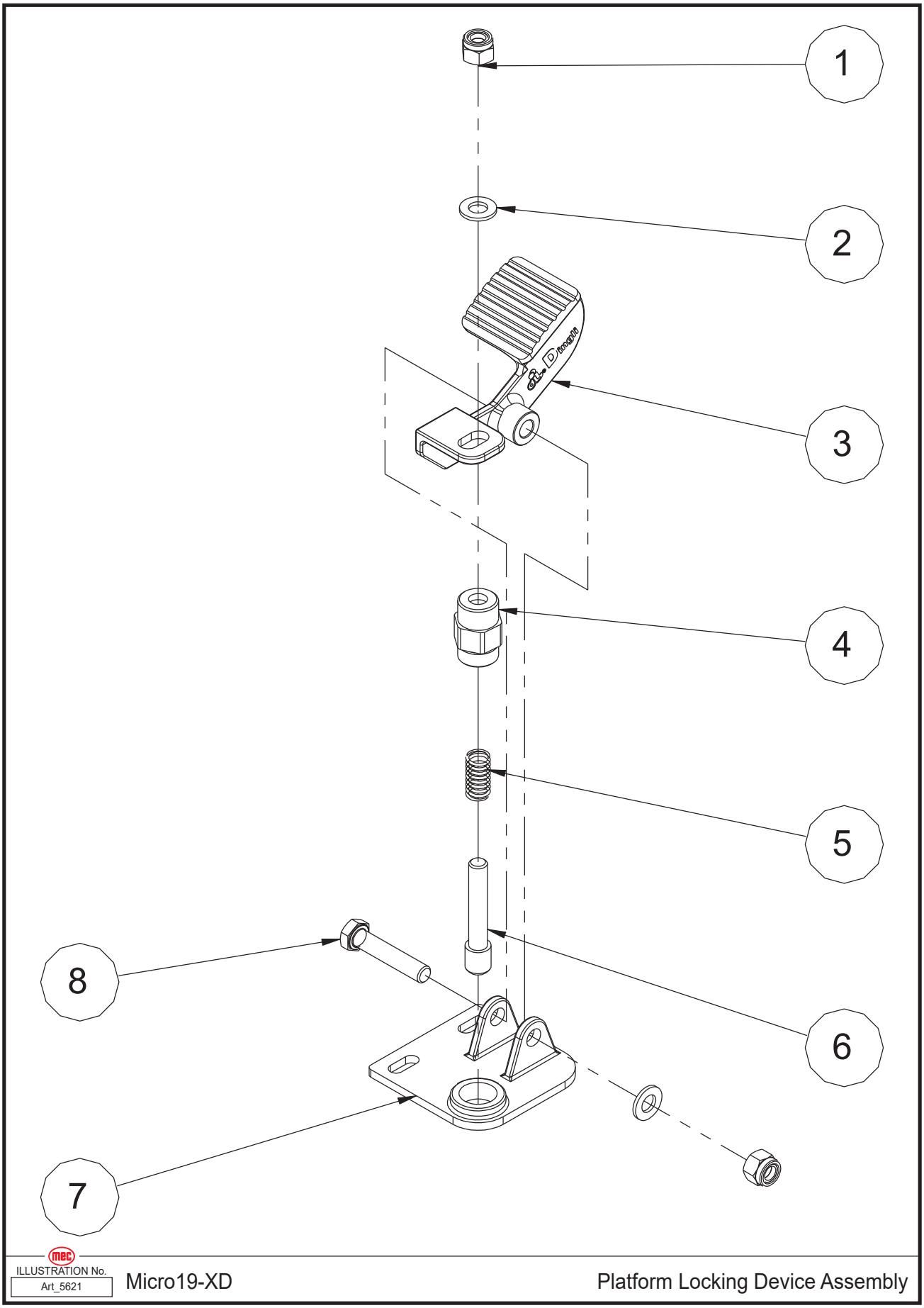


ILLUSTRATION No. Art_5621 Micro19-XD Platform Locking Device Assembly

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

Platform Control Assembly, 1930SE-4555SE

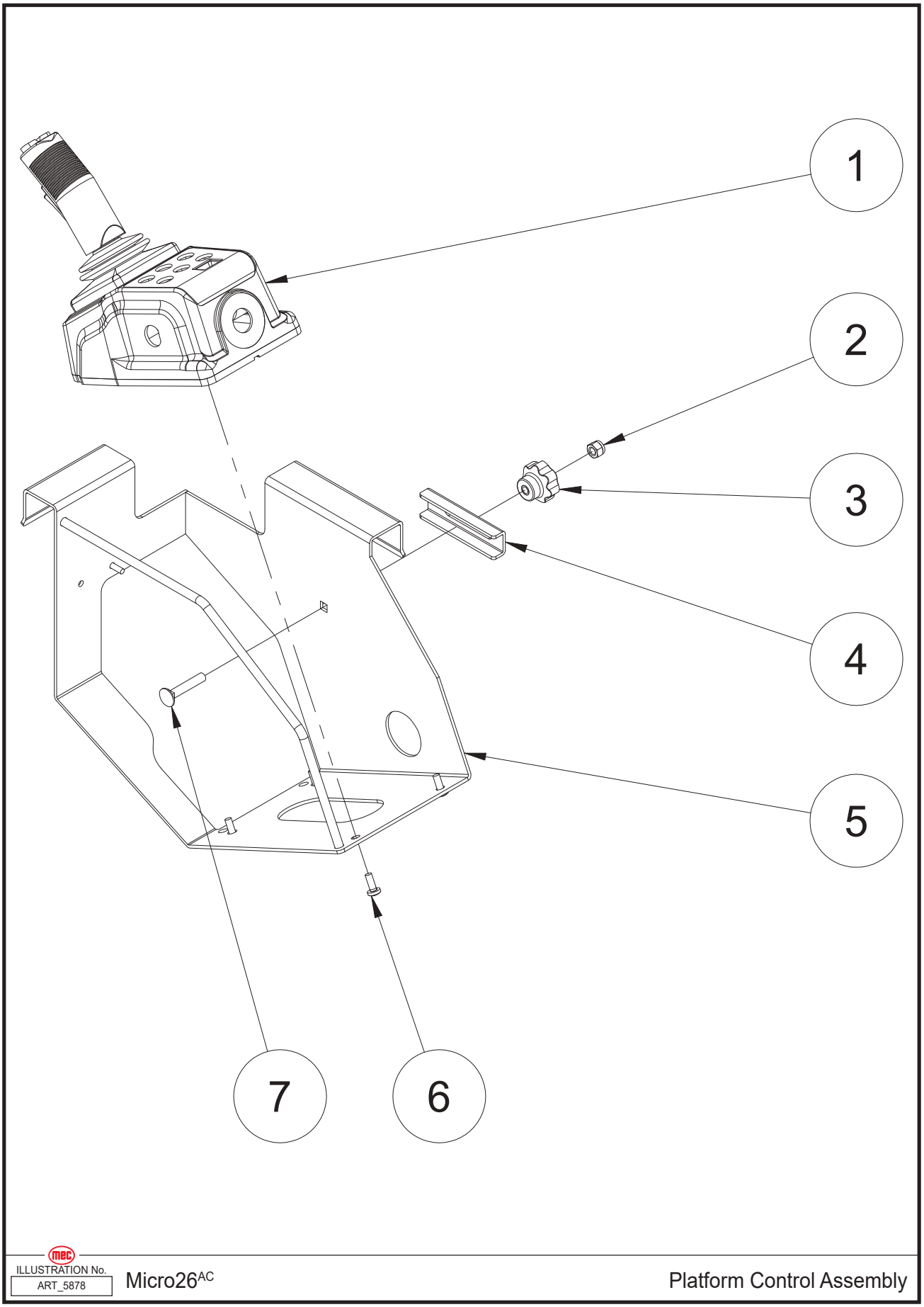


ILLUSTRATION No. ART_5878

Micro26AC

Platform Control Assembly

Item	Part Number	Description	Qty.
1	46315	Platform Control Box Assembly (Refer to page 160)	1
2	50048	Nut NNYL M08-1.25	1
3	42501	Handle	1
4	42500	Locating Plate	1
5	41764	Platform Control Box Mount Bracket	1
6	53231	Screw PHMS M06-1.00 × 16	4
7	53248	Screw CARB M08-1.25 × 45	1

Platform Control Box Assembly, 1930SE-4555SE

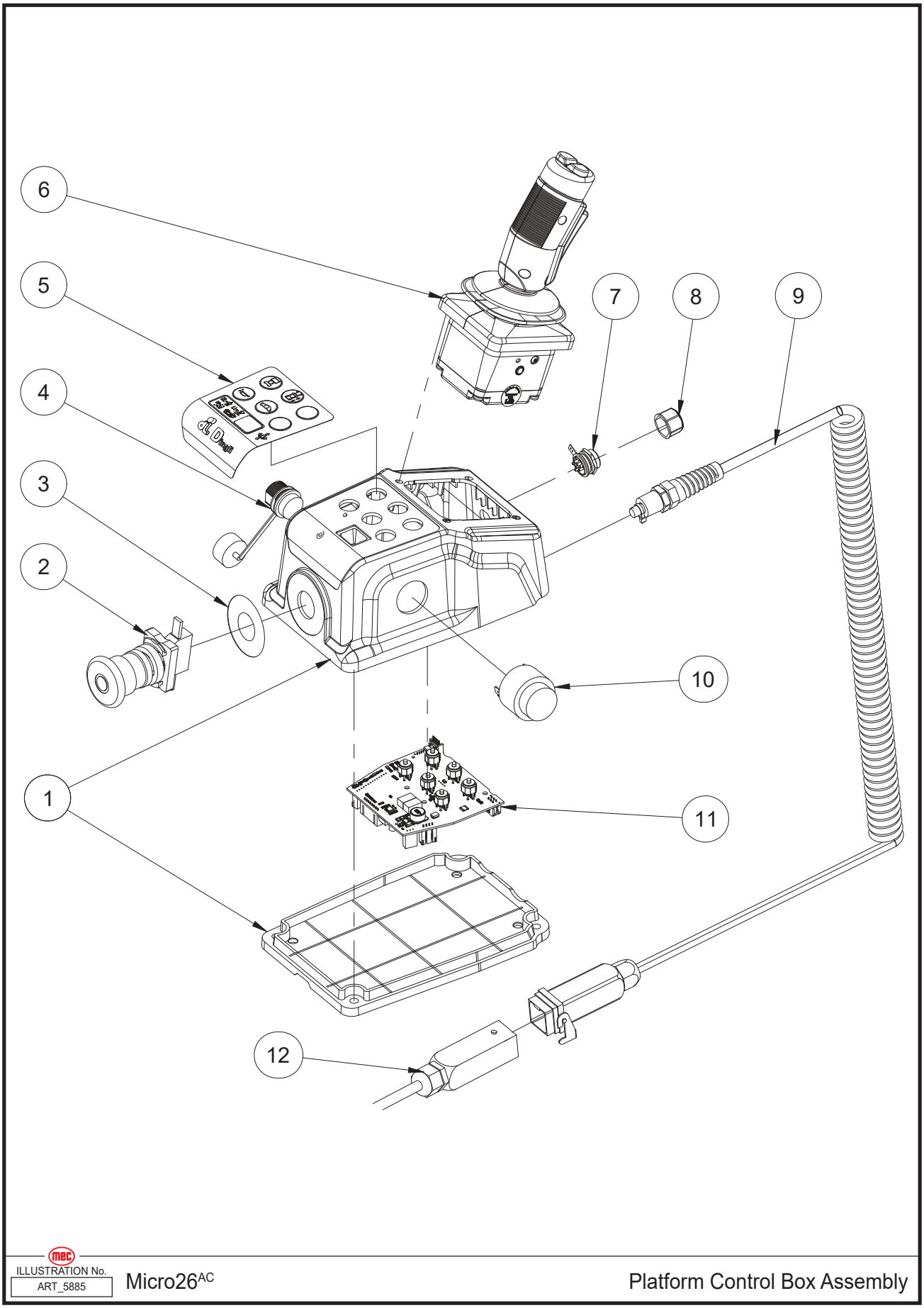


ILLUSTRATION No. ART_5885

Micro26AC

Platform Control Box Assembly

Item	Part Number	Description	Qty.
1	44768	Shell Components	1
2	41157	Emergency Stop Switch	1
--	43632	Red Mushroom Head	1
--	43633	Base with 1 NO contact	1
3	42915	Decal, Emergency Stop Panel	1
4	44769	USB Cable	1
5	44797	Decal, Platform Control Panel	1
6	46289	Joystick	1
--	43621	Function Enable Switch	1
--	46290	Joystick Cover	1
--	43622	Joystick Steer Switch	1
--	43623	Switch Boot	1
7	44770	Connector	1
8	44771	Connector Cap	1
9	44772	Coil Cord	1
--	44773	Hood	1
--	44774	Female Insert	1
--	44775	Female Contacts	5
--	43627	Cable Gland	1
10	41568	Alarm	1
11	44776	PCU Main Board	1
12	46334	Platform Control Box Harness	1
--	44778	Housing	1
--	44779	Male Insert	1
--	44780	Male Contacts	5
--	43627	Cable Gland	1

Socket Installation

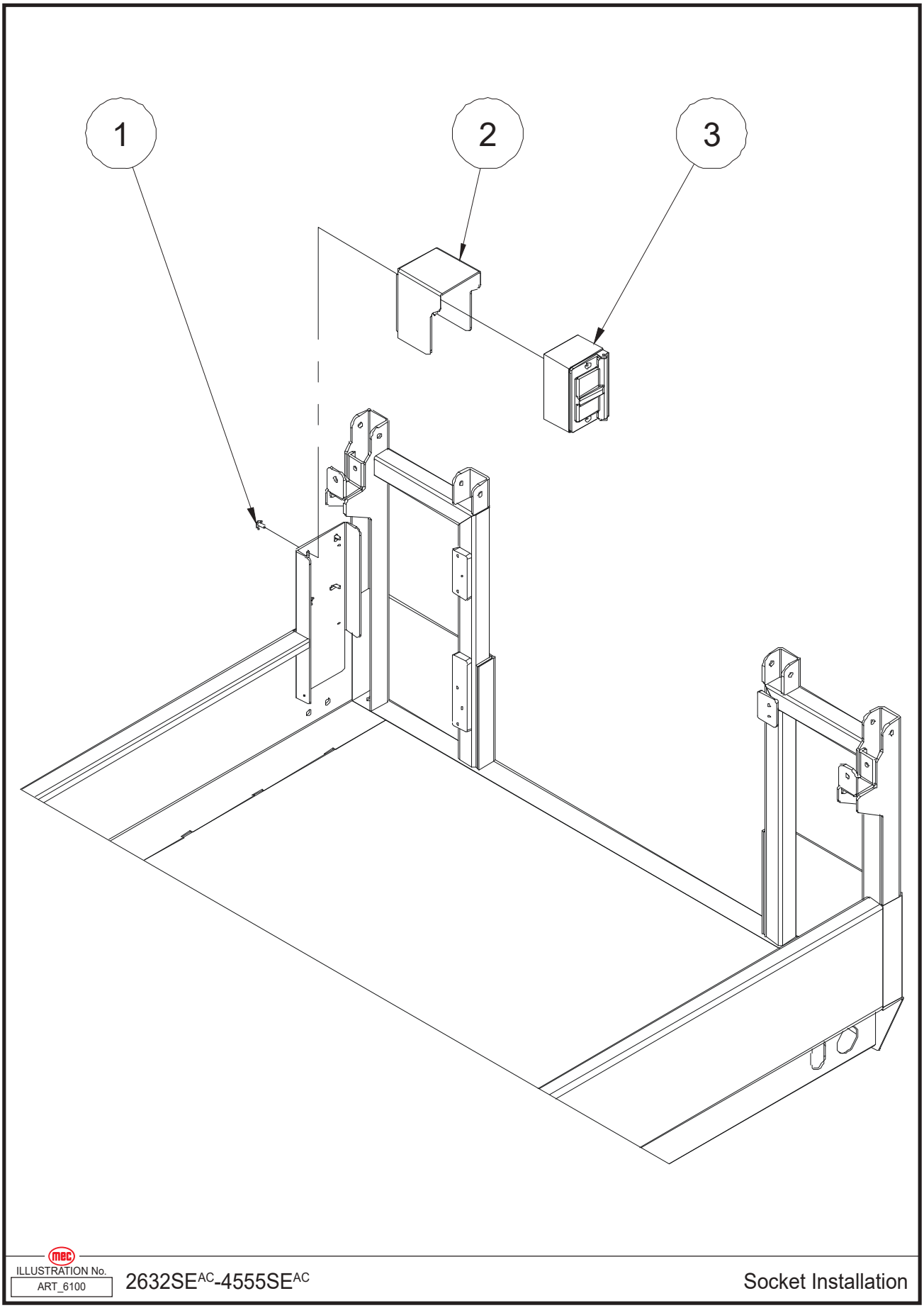


ILLUSTRATION No. ART_6100

2632SE^{AC}-4555SE^{AC} Socket Installation

Item	Part Number	Description	Qty.
1	53224	Screw THMS M05-0.80 × 12	4
2	47386	Cover	1
3	42613	AC Socket	1

Lower Lift Cylinder Assembly, 1930SE

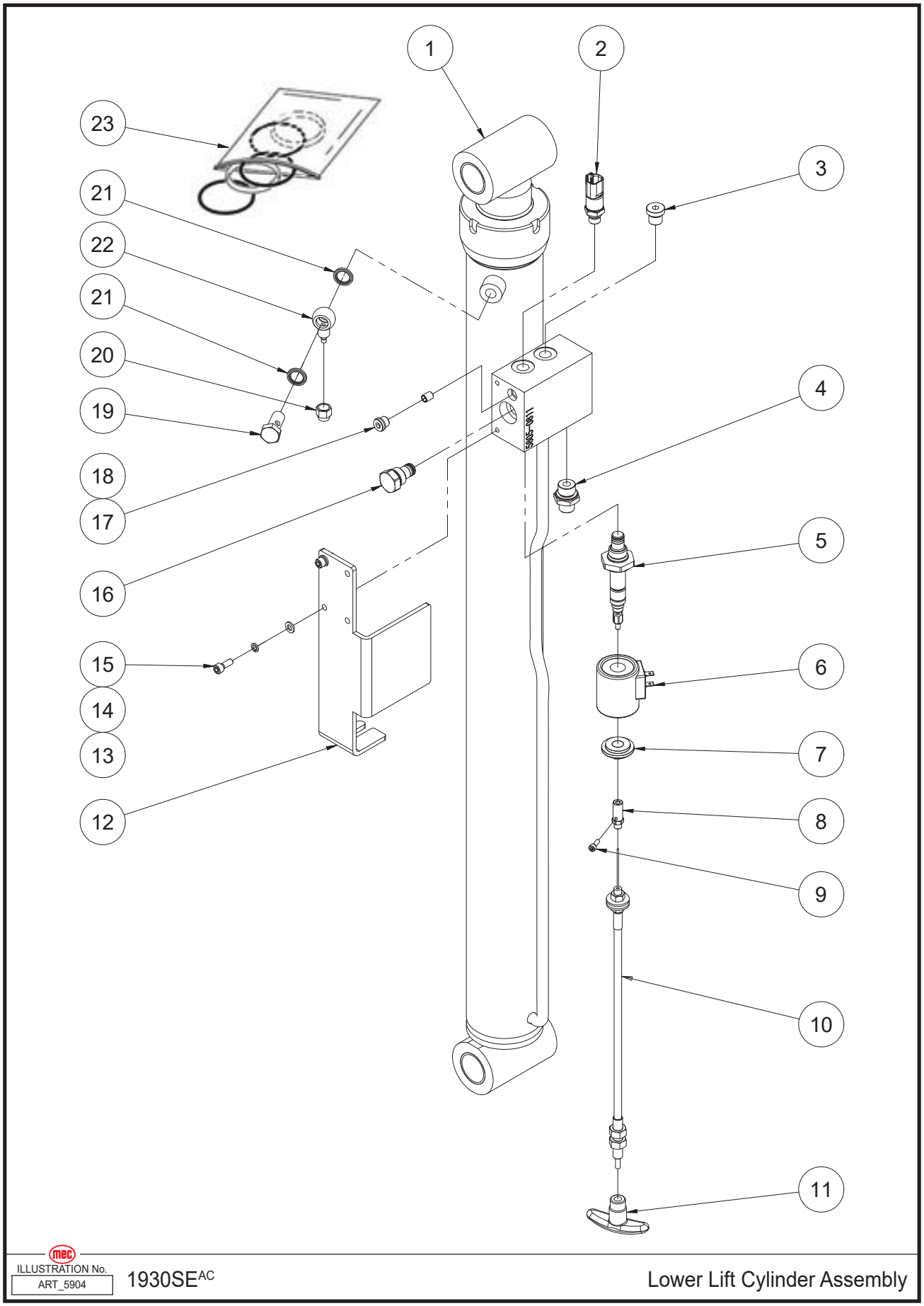


ILLUSTRATION No. ART_5904

1930SE^{AC}

Lower Lift Cylinder Assembly

Item	Part Number	Description	Qty.
1	44913	Lower Lift Cylinder	1
2	44448	Pressure Sensor, 4-Wire Plug (Current Signal)	1
	46335	Pressure Sensor, 3-Wire Plug (Voltage Signal)	1
	41288	Pressure Sensor, 5-Wire Plug	1
	42480	Plug (No Pressure Sensor)	1
3	42480	Plug	1
4	43638	Straight Fitting	1
5	41363	Solenoid Valve Spool	1
6	41550	Coil	1
7	43364	Nut	1
8	43365	Cable Connector	1
9	50423	Screw SHCS M04-0.70 × 12	1
10	41832	Emergency Down Cable Assembly	1
11	43367	Lowering Knob	1
12	44914	Valve Cover	1
13	50000	WSHR M06 Standard Flat Washer	2
14	53046	WSHR M06 Spring Washer	2
15	53138	Screw SHCS M06-1.00 × 16	2
16	43369	Check Valve	1
17	42821	Plug	1
18	43637	Orifice	1
19	41166	Fitting	1
20	41413	Nut	1
21	43361	Washer	2
22	41167	Fitting	1
23	41173	Seal Kit	1

Lower Lift Cylinder Assembly, 2632SE & 3232SE

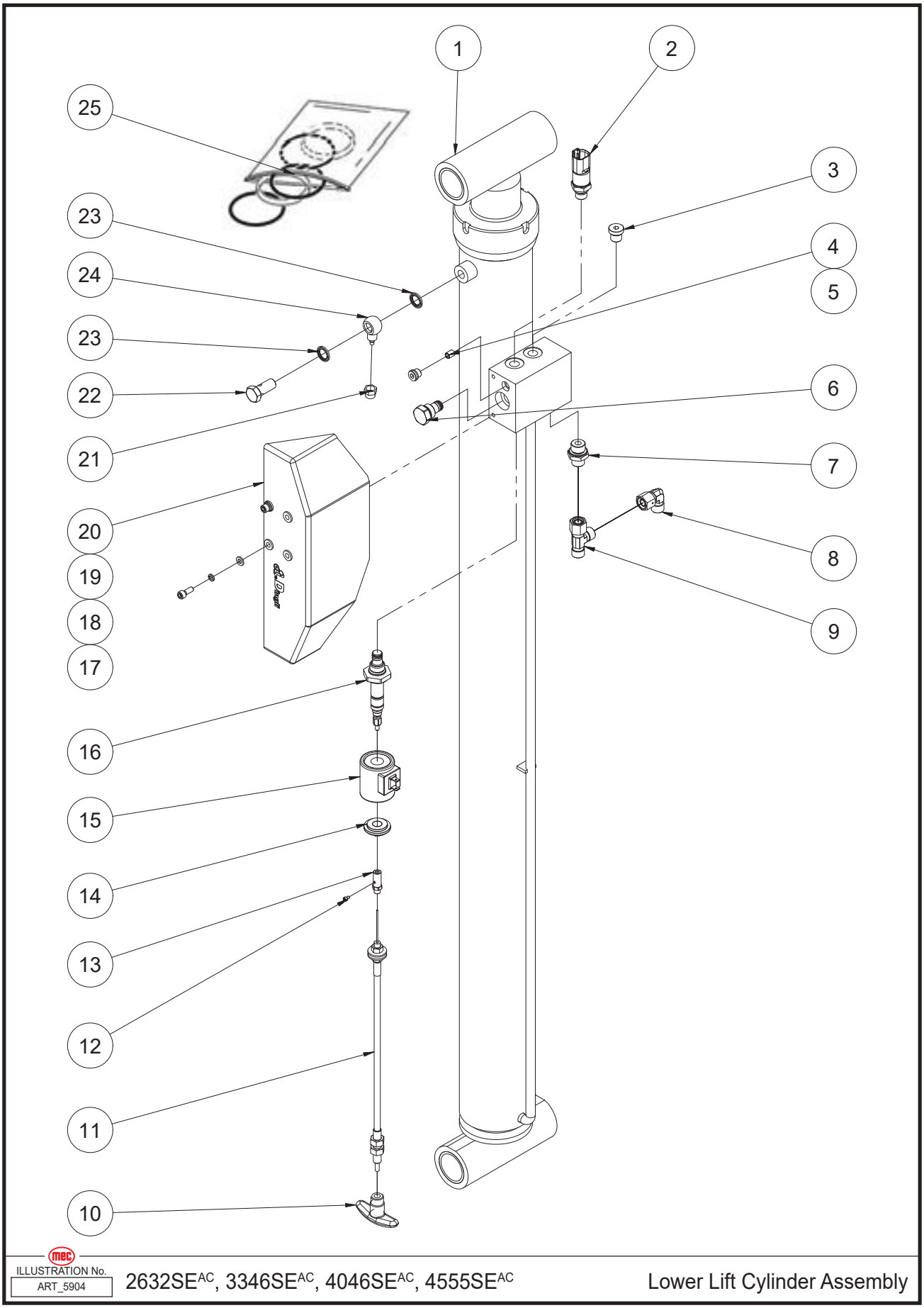


ILLUSTRATION No. ART_5904

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Lower Lift Cylinder Assembly

Item	Part No.	Description	Qty.
1	41488	Lower Lift Cylinder (2632SE, 3346SE, 4046SE)	1
	46405	Lower Lift Cylinder (4555SE)	1
2	44448	Pressure Sensor	1
3	42480	Plug	1
4	43370	Orifice (2632SE, 3346SE, 4046SE)	1
	46406	Orifice (4555SE)	
5	42821	Plug	1
6	43369	Check Valve	1
7	43638	Straight Fitting	1
8	43639	Elbow	1
9	43640	Tee Fitting	1
10	43367	Lowering Knob	1
11	41833	Emergency Down Cable Assembly (2632SE, 3346SE, 4046SE)	1
	44988	Emergency Down Cable Assembly (4555SE)	1
12	50423	Screw SHCS M04-0.70 × 12	1
13	43365	Cable Connector	1
14	43364	Nut	1
15	46764	Coil	1
16	45385	Solenoid Valve Spool	1
17	53138	Screw SHCS M06-1.00 × 16	2
18	53046	WSHR M06 Spring Washer	2
19	50000	WSHR M06 Standard Flat Washer	2
20	41164	Valve Cover	1
21	41413	Nut	1
22	41166	Fitting	1
23	43361	Washer	2
24	41167	Fitting	1
25	41168	Seal Kit (2632SE, 3346SE, 4046SE)	1
	44989	Seal Kit (4555SE)	1

Lower Lift Cylinder Assembly, 3346SE-4555SE

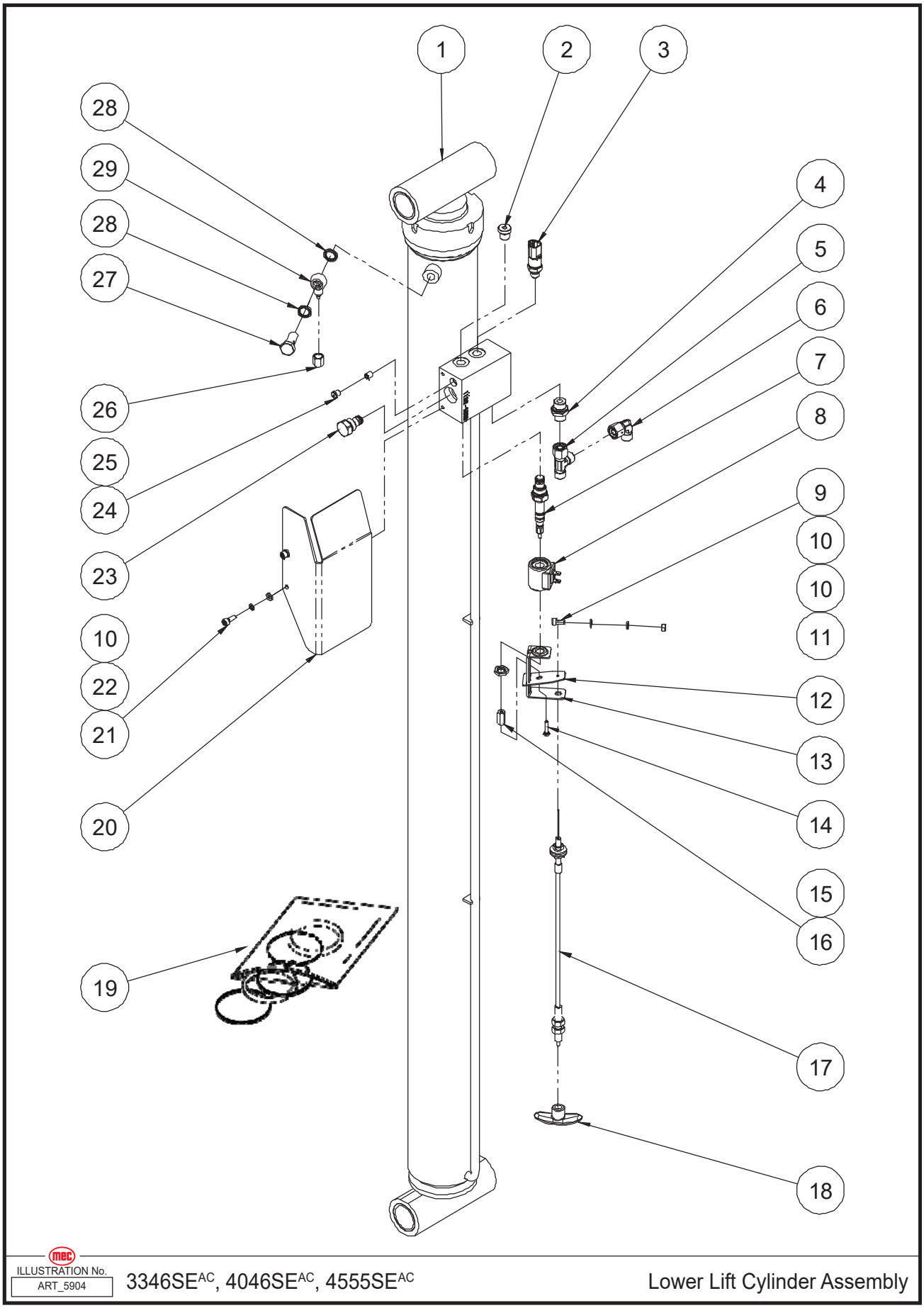


ILLUSTRATION No. ART_5904

3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Lower Lift Cylinder Assembly

Item	Part Number	Description	Qty.
1	41488	Lower Lift Cylinder (3346SE, 4046SE)	1
	46405	Lower Lift Cylinder (4555SE)	1
2	42480	Plug	1
3	44448	Pressure Sensor (Current Signal)	1
	46335	Pressure Sensor (Voltage Signal)	1
	42480	Plug (No Pressure Sensor)	1
4	43638	Straight Fitting	1
5	43640	Tee Fitting (3346SE, 4046SE, 4555SE)	1
6	43639	Elbow (3346SE, 4046SE, 4555SE)	1
7	45386	Solenoid Valve Spool	1
8	46764	Coil	1
9	42466	Screw	1
10	50000	WSHR M06 Standard Flat Washer	4
11	53361	Nut NHEX M06-1.00	1
12	44833	Plate	1
13	44834	Support	1
14	53179	Screw HHCS M05-0.80 × 20	1
15	42795	Nut	1
16	44004	Cable Connector	1
17	45387	Emergency Down Cable Assembly (3346SE, 4046SE)	1
	45388	Emergency Down Cable Assembly (4555SE)	1
18	43367	Lowering Knob	1
19	41168	Seal Kit (3346SE, 4046SE)	1
	44989	Seal Kit (4555SE)	1
20	45389	Cover	1
21	53138	Screw SHCS M06-1.00 × 16	2
22	53046	WSHR M06 Spring Washer	2
23	43369	Check Valve	1
24	43465	Plug	2
25	43370	Orifice (3346SE, 4046SE)	1
	46406	Orifice (4555SE)	1
26	41413	Nut	1
27	41166	Fitting	1
28	43361	Washer	2
29	41167	Fitting	1

Upper Lift Cylinder Assembly, 3232SE-4555SE

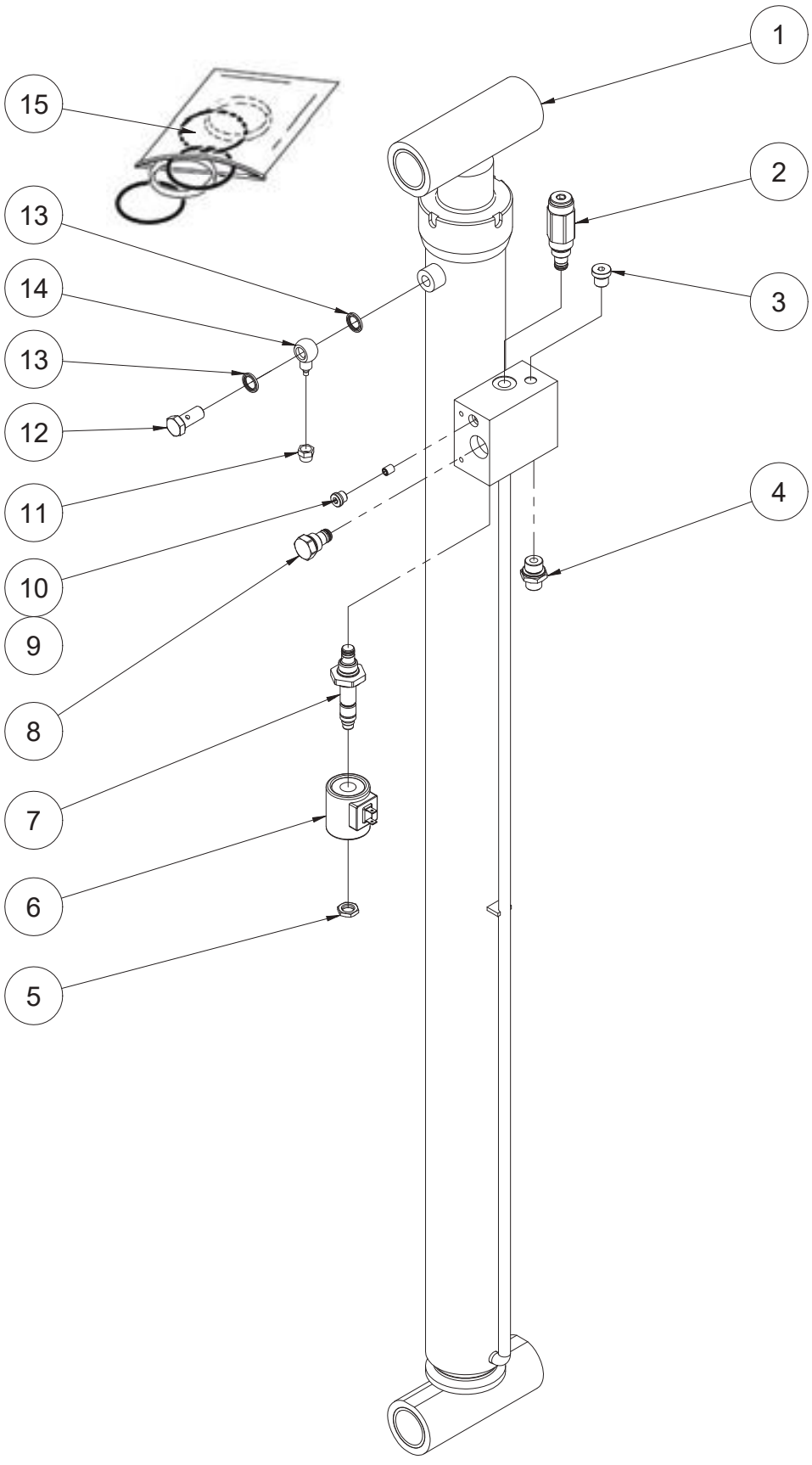


ILLUSTRATION No. ART_5905

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Upper Lift Cylinder Assembly

Item	Part Number	Description	Qty.
1	41505	Upper Lift Cylinder (3232SE, 3346SE, 4046SE)	1
	46407	Upper Lift Cylinder (4555SE)	1
2	41169	Relief Valve	1
3	42480	Plug	1
4	43638	Straight Fitting	1
5	42795	Nut	1
6	46764	Coil	1
7	45390	Solenoid Valve Spool	1
8	43369	Check Valve	1
9	43645	Orifice (3232SE, 3346SE, 4046SE)	1
	43374	Orifice (4555SE)	1
10	42821	Plug	1
11	41413	Nut	1
12	41166	Fitting	1
13	43361	Washer	2
14	41167	Fitting	1
15	41173	Seal Kit	1

Function Manifold, 1930SE

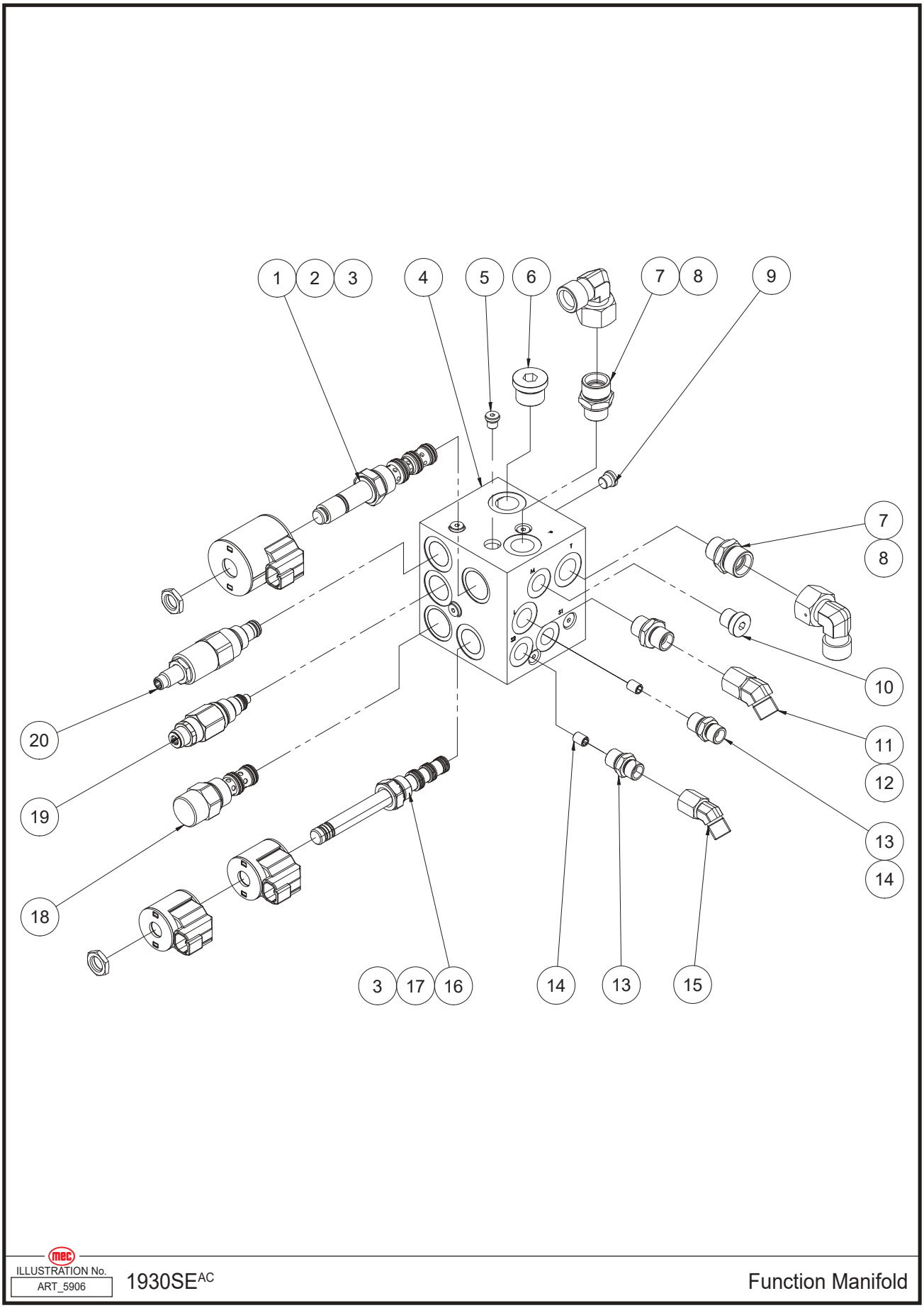


ILLUSTRATION No. ART_5906

1930SE^{AC}

Function Manifold

Item	Part Number	Description	Qty.
1	41548	Solenoid Valve Spool (SV2)	1
2	46295	Coil	1
3	42795	Nut	2
4	46293	Valve Body	1
5	43465	Plug	13
6	43079	Plug	1
7	43582	Straight Fitting	2
8	43206	Elbow	2
9	43643	Plug	3
10	42480	Plug	1
11	46336	45° Fitting	1
12	43644	Straight Fitting	1
13	43076	Straight Fitting	2
14	43645	Orifice	2
15	46337	45° Fitting	1
16	41537	Solenoid Valve Spool (SV1)	1
17	46294	Coil	2
18	46296	Flow Control Valve (FR1)	1
19	46338	Relief valve (RV2)	1
20	46292	Relief valve (RV1)	1

Function Manifold, 2632SE-4555SE

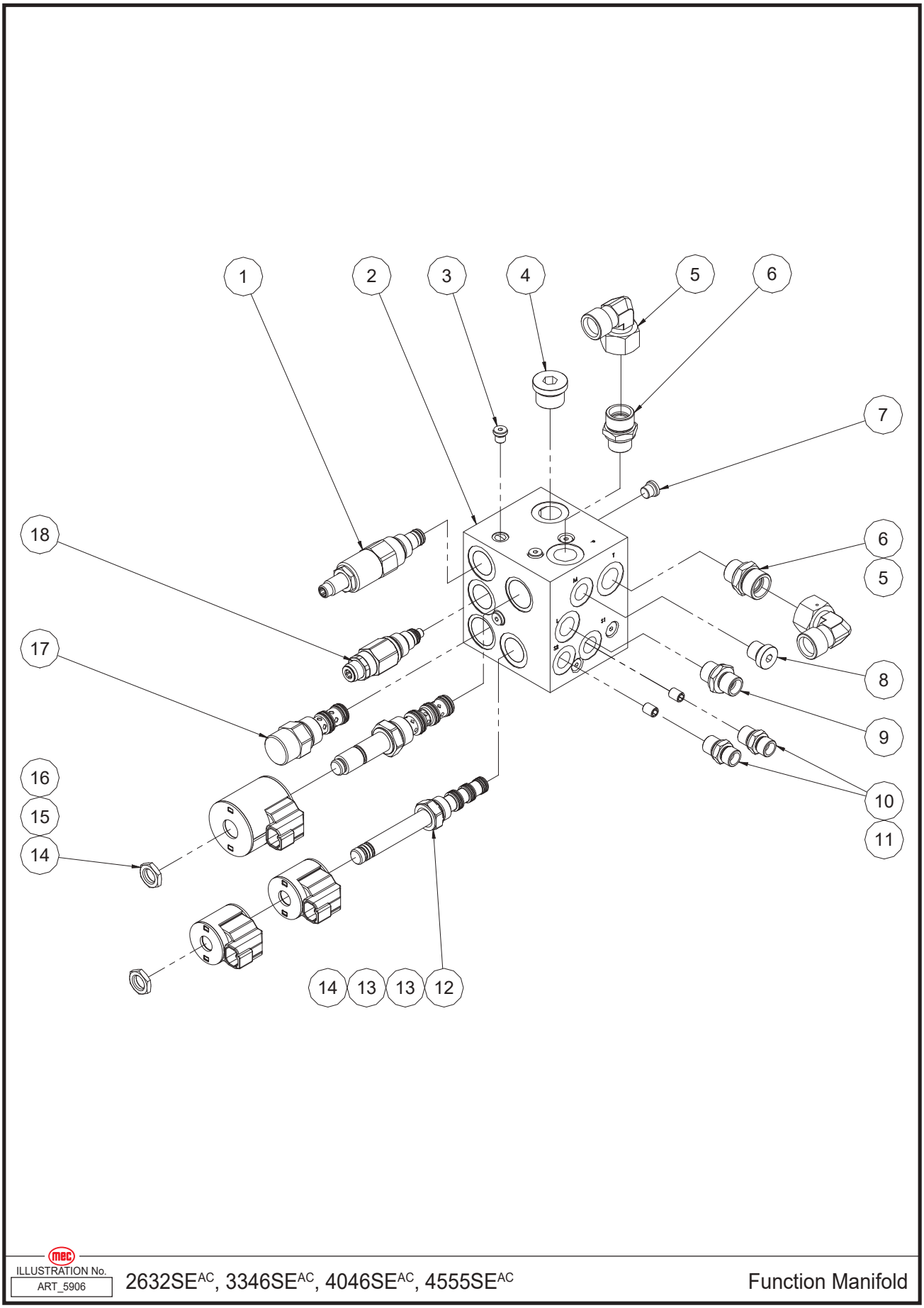


ILLUSTRATION No. ART_5906

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Function Manifold

Item	Part Number	Description	Qty.
1	46292	Relief Valve (RV1)	1
2	46293	Valve Body	1
3	43465	Plug	13
4	43079	Plug	1
5	43206	Elbow	2
6	43582	Straight Fitting	2
7	43643	Plug	3
8	42480	Plug	1
9	43644	Straight Fitting	1
10	43076	Straight Fitting	2
11	43645	Orifice	2
12	41537	Solenoid Valve Spool (SV1)	1
13	46294	Coil	2
14	42795	Nut	2
15	46295	Coil	1
16	41548	Solenoid Valve Spool (SV2)	1
17	46296	Flow Control Valve (FR1)	1
18	46297	Relief Valve (RV2)	1

Hydraulic Hoses and Fittings, 1930SE

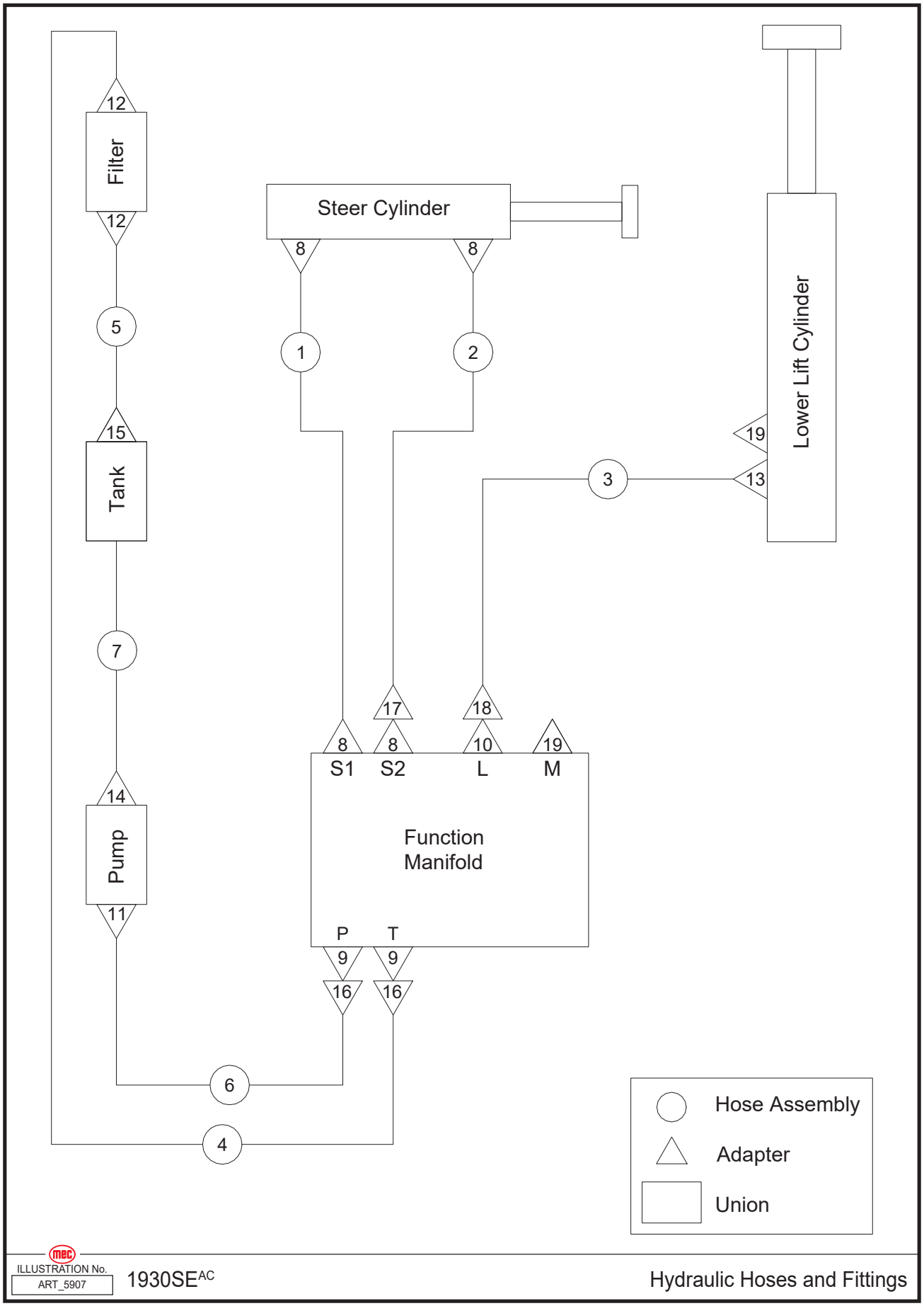


ILLUSTRATION No. ART_5907

1930SE^{AC}

Hydraulic Hoses and Fittings

Item	Part Number	Description	Qty.
1	41838	Hose Assembly	**1**
2	41839	Hose Assembly	**1**
3	46339	Hose Assembly	1
4	46340	Hose Assembly	1
5	46341	Hose Assembly	1
6	46342	Hose Assembly	1
7	46343	Hose Assembly	1
8	43076	Straight Fitting	4
9	43582	Straight Fitting	2
10	43644	Straight Fitting	1
11	43205	Straight Fitting	1
12	43576	Straight Fitting	2
13	43638	Straight Fitting	1
14	46260	Straight Fitting	1
15	41085	Fitting	1
16	43206	Elbow	2
17	46337	45° Fitting	1
18	46336	45° Fitting	1
19	42480	Plug	2

Hydraulic Hoses and Fittings, 2632SE

Check Serial Number

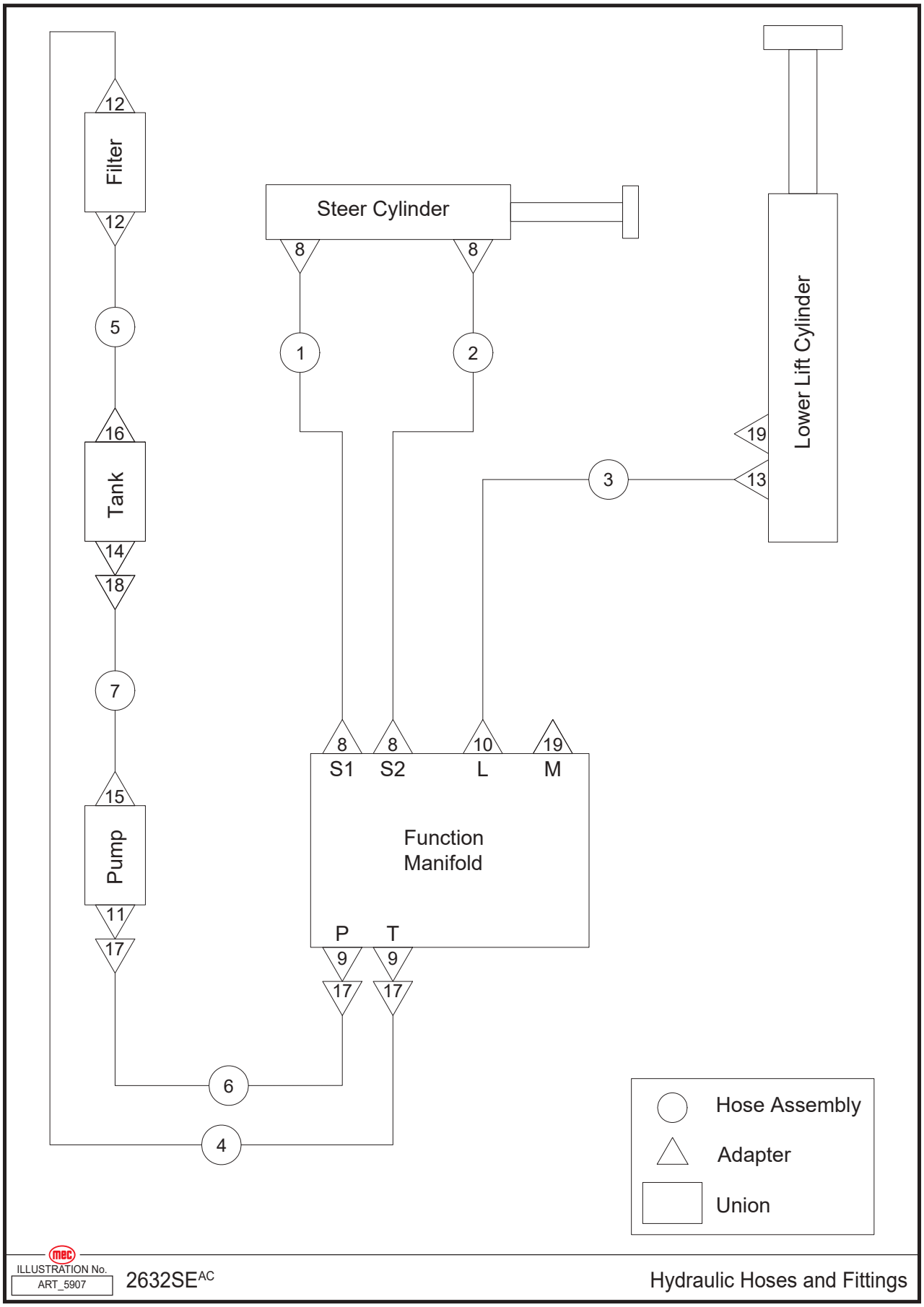


ILLUSTRATION No. ART_5907

2632SE^{AC}

Hydraulic Hoses and Fittings

Item	Part Number	Description	Qty.
1	41539	Hose Assembly, S1 Steer Hose	1
2	41541	Hose Assembly, S2 Speed Hose	1
3	41543	Hose Assembly, Lift Hose	1
4	44990	Hose Assembly, Return Hose	1
5	41178	Hose Assembly, Filter to Tank Hose	1
6	41179	Hose Assembly, Main Pump Hose	1
7	46408	Hose Assembly, Suction Hose	1
8	43076	Straight Fitting	4
9	43582	Straight Fitting	2
10	43644	Straight Fitting	1
11	43205	Straight Fitting	1
12	43576	Straight Fitting	2
13	43638	Straight Fitting	1
14	46375	Straight Fitting	1
15	46260	Straight Fitting	1
16	41085	Fitting	1
17	43206	Elbow	3
18	46376	Elbow	1
19	42480	Plug	2

Hydraulic Hoses and Fittings, 2632SE

Check Serial Number

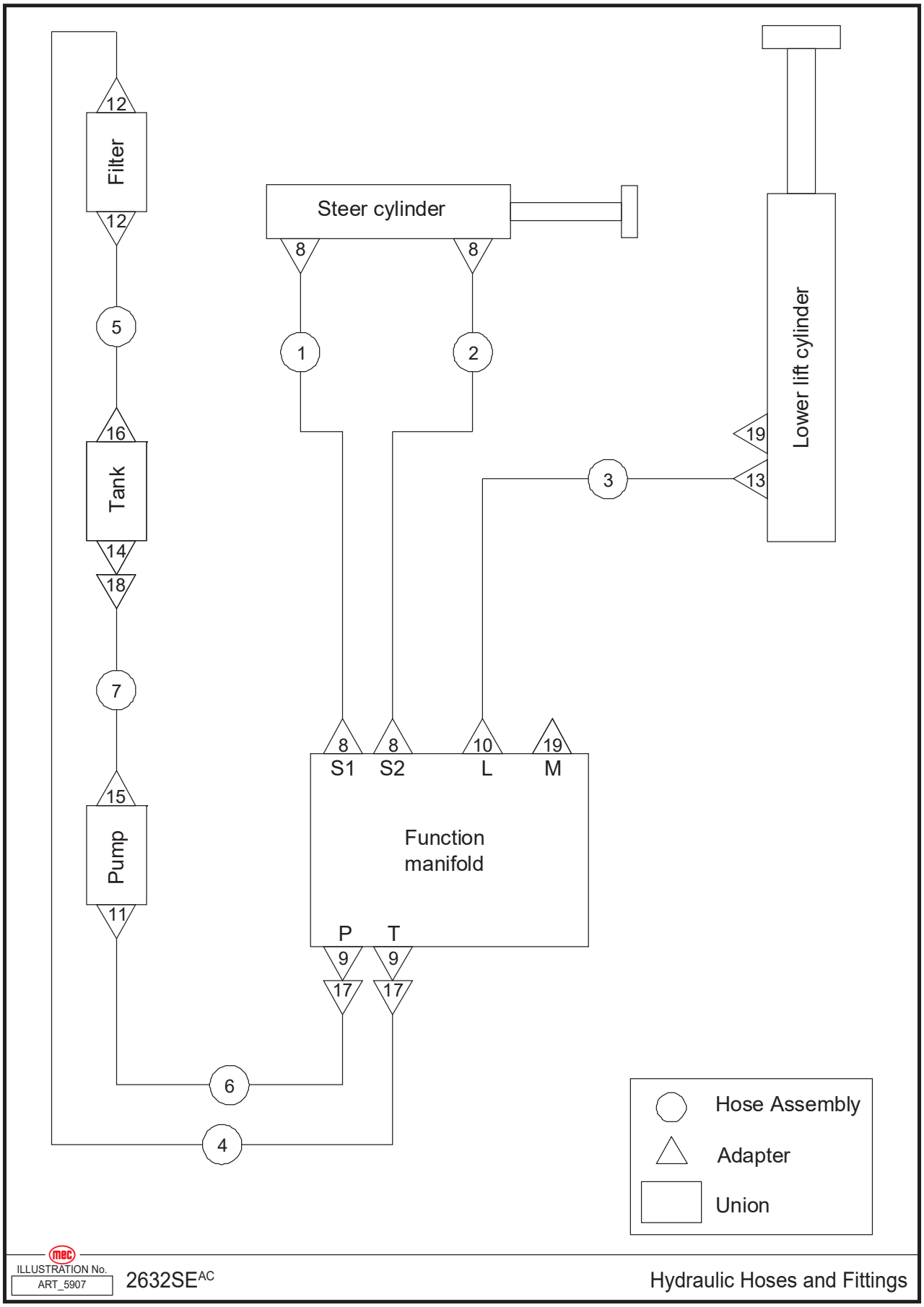


ILLUSTRATION No. ART_5907

2632SE^{AC}

Hydraulic Hoses and Fittings

Item	Part Number	Description	Qty.
1	41539	Hose Assembly, S1 Steer Hose (2632SE)	1
	41540	Hose Assembly, S1 Steer Hose (3246SE)	1
2	41541	Hose Assembly, S2 Speed Hose (2632SE)	1
	41542	Hose Assembly, S2 Speed Hose (3246SE)	1
3	41543	Hose Assembly, Lift Hose	1
4	45404	Hose Assembly, Return Hose	1
5	45405	Hose Assembly, Filter to Tank Hose	1
6	45406	Hose Assembly, Main Pump Hose	1
7	46408	Hose Assembly, Suction Hose	1
8	43076	Straight Fitting	4
9	43582	Straight Fitting	2
10	43644	Straight Fitting	1
11	43205	Straight Fitting	1
12	43576	Straight Fitting	2
13	43638	Straight Fitting	1
14	46375	Straight Fitting	1
15	46260	Straight Fitting	1
16	41085	Fitting	1
17	43206	Elbow	2
18	46376	Elbow	1
19	42480	Plug	2

Hydraulic Hoses and Fittings, 3346SE-4046SE

Check Serial Number

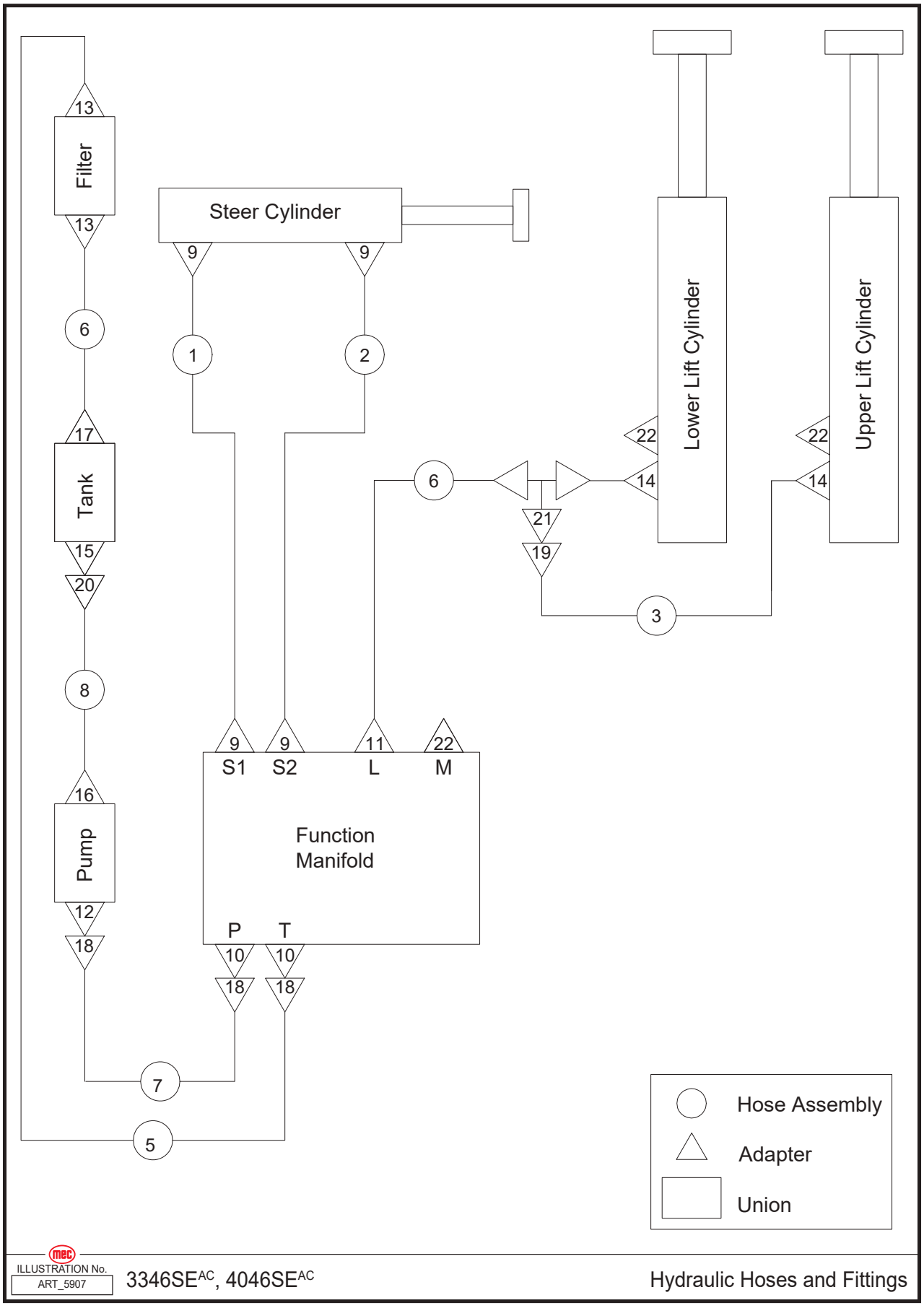


ILLUSTRATION No. ART_5907

3346SE^{AC}, 4046SE^{AC}

Hydraulic Hoses and Fittings

Item	Part Number	Description	Qty.
1	41540	Hose Assembly	1
2	41542	Hose Assembly	1
3	41545	Hose Assembly	1
4	41543	Hose Assembly	1
5	44990	Hose Assembly	1
6	41178	Hose Assembly	1
7	41179	Hose Assembly	1
8	46408	Hose Assembly	1
9	43076	Straight Fitting	4
10	43582	Straight Fitting	2
11	43644	Straight Fitting	1
12	43205	Straight Fitting	1
13	43576	Straight Fitting	2
14	43638	Straight Fitting	2
15	46375	Straight Fitting	1
16	46260	Straight Fitting	1
17	41085	Fitting	1
18	43206	Elbow	3
19	43639	Elbow	1
20	46376	Elbow	1
21	43640	Tee Fitting	1
22	42480	Plug	3

Hydraulic Hoses and Fittings, 3232SE-4046SE

Check Serial Number

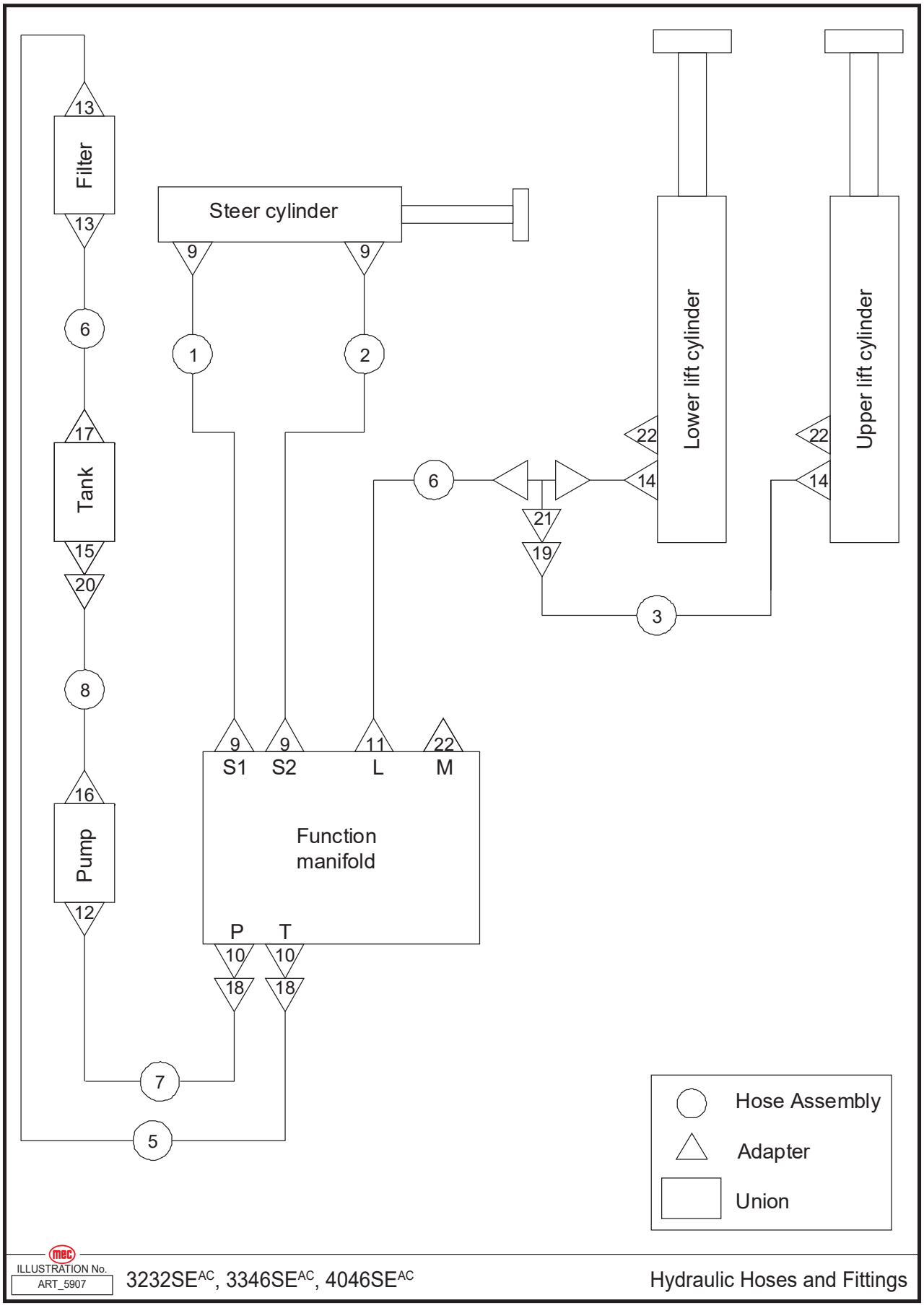


ILLUSTRATION No. ART_5907

3232SE^{AC}, 3346SE^{AC}, 4046SE^{AC} Hydraulic Hoses and Fittings

Item	Part Number	Description	Qty.
1	41539	Hose Assembly, S1 Steer Hose (3232SE)	1
	41540	Hose Assembly, S1 Steer Hose (3346SE, 4046SE)	1
2	41541	Hose Assembly, S2 Speed Hose (3232SE)	1
	41542	Hose Assembly, S2 Speed Hose (3346SE, 4046SE)	1
3	41545	Hose Assembly	1
4	41543	Hose Assembly	1
5	45404	Hose Assembly, Return Hose	1
6	45405	Hose Assembly, Filter to Tank Hose	1
7	45406	Hose Assembly, Main Pump Hose	1
8	46408	Hose Assembly, Suction Hose	1
9	43076	Straight Fitting	4
10	43582	Straight Fitting	2
11	43644	Straight Fitting	1
12	43205	Straight Fitting	1
13	43576	Straight Fitting	2
14	43638	Straight Fitting	2
15	46375	Straight Fitting	1
16	46260	Straight Fitting	1
17	41085	Fitting	1
18	43206	Elbow	2
19	43639	Elbow	1
20	46376	Elbow	1
21	43640	Tee Fitting	1
22	42480	Plug	3

Hydraulic Hoses and Fittings, 4555SE

Check Serial Number

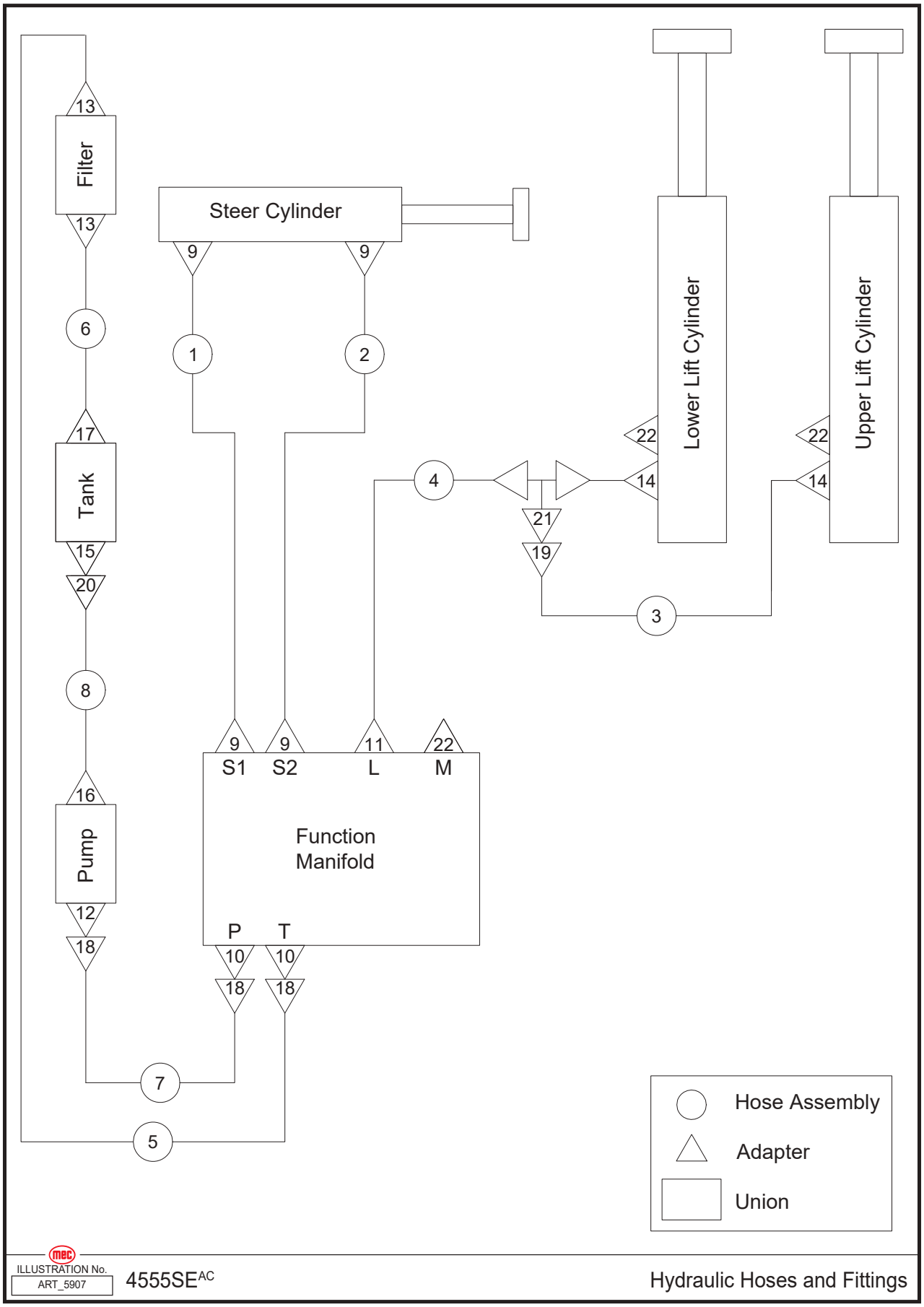


ILLUSTRATION No. ART_5907

4555SE^{AC}

Hydraulic Hoses and Fittings

Item	Part Number	Description	Qty.
1	44991	Hose Assembly	1
2	44455	Hose Assembly	1
3	44992	Hose Assembly	1
4	44993	Hose Assembly	1
5	46409	Hose Assembly	1
6	41178	Hose Assembly	1
7	46410	Hose Assembly	1
8	46408	Hose Assembly	1
9	43076	Straight Fitting	4
10	43582	Straight Fitting	2
11	43644	Straight Fitting	1
12	43205	Straight Fitting	1
13	43576	Straight Fitting	2
14	43638	Straight Fitting	2
15	46375	Straight Fitting	1
16	46260	Straight Fitting	1
17	41085	Fitting	1
18	43206	Elbow	3
19	43639	Elbow	1
20	46376	Elbow	1
21	43640	Tee Fitting	1
22	42480	Plug	3

Hydraulic Hoses and Fittings, 4555SE

Check Serial Number

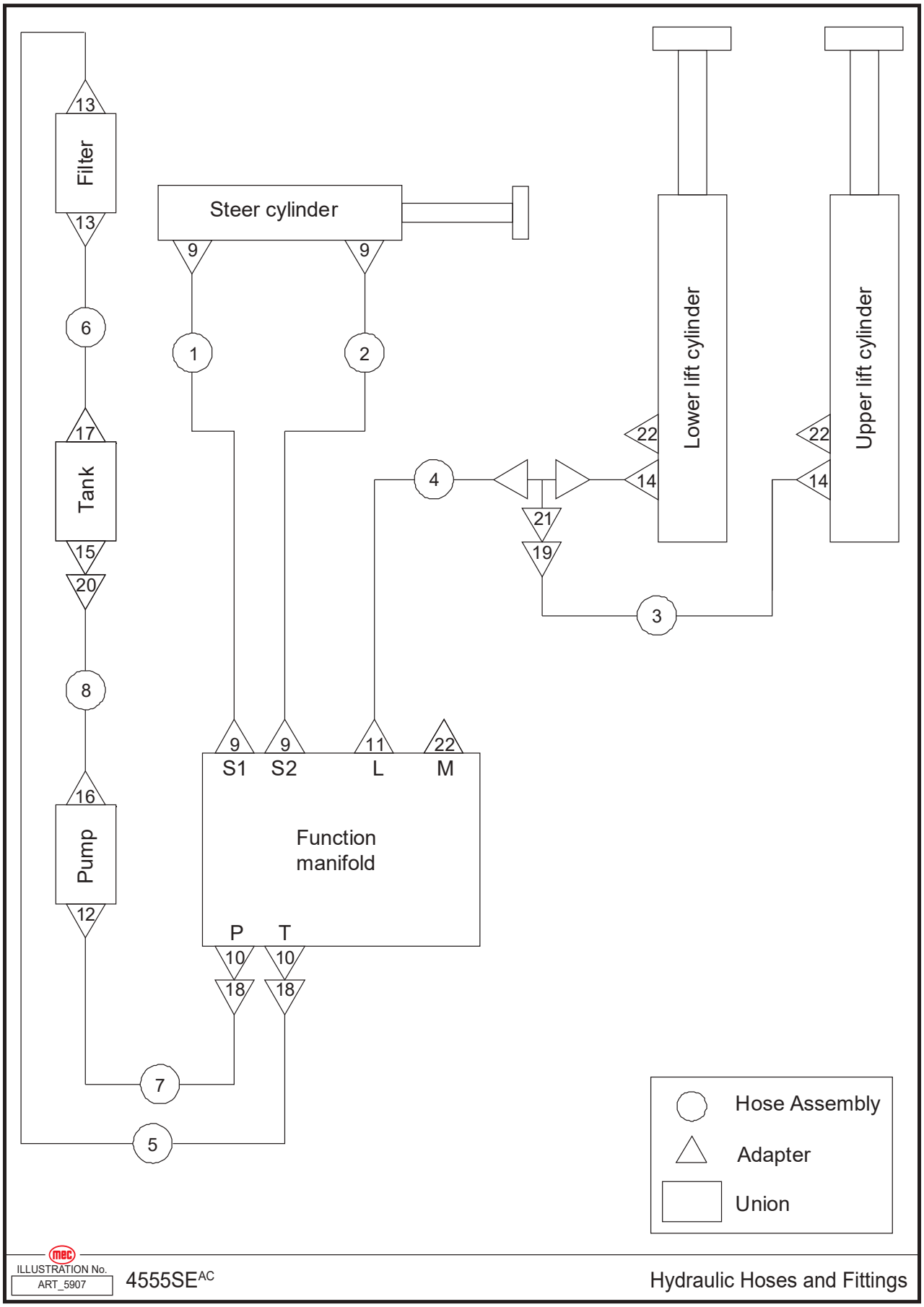


ILLUSTRATION No. ART_5907

4555SE^{AC}

Hydraulic Hoses and Fittings

Item	Part Number	Description	Qty.
1	44991	Hose Assembly, S1 Steer Hose	1
2	44455	Hose Assembly, S2 Speed Hose	1
3	44992	Hose Assembly	1
4	44993	Hose Assembly	1
5	44990	Hose Assembly, Return Hose	1
6	45405	Hose Assembly, Filter to Tank Hose	1
7	45407	Hose Assembly, Main Pump Hose	1
8	46408	Hose Assembly, Suction Hose	1
9	43076	Straight Fitting	4
10	43582	Straight Fitting	2
11	43644	Straight Fitting	1
12	43205	Straight Fitting	1
13	43576	Straight Fitting	2
14	43638	Straight Fitting	2
15	46375	Straight Fitting	1
16	46260	Straight Fitting	1
17	41085	Fitting	1
18	43206	Elbow	2
19	43639	Elbow	1
20	46376	Elbow	1
21	43640	Tee Fitting	1
22	42480	Plug	3

Electrical Harness, 1930SE

Check Serial Number

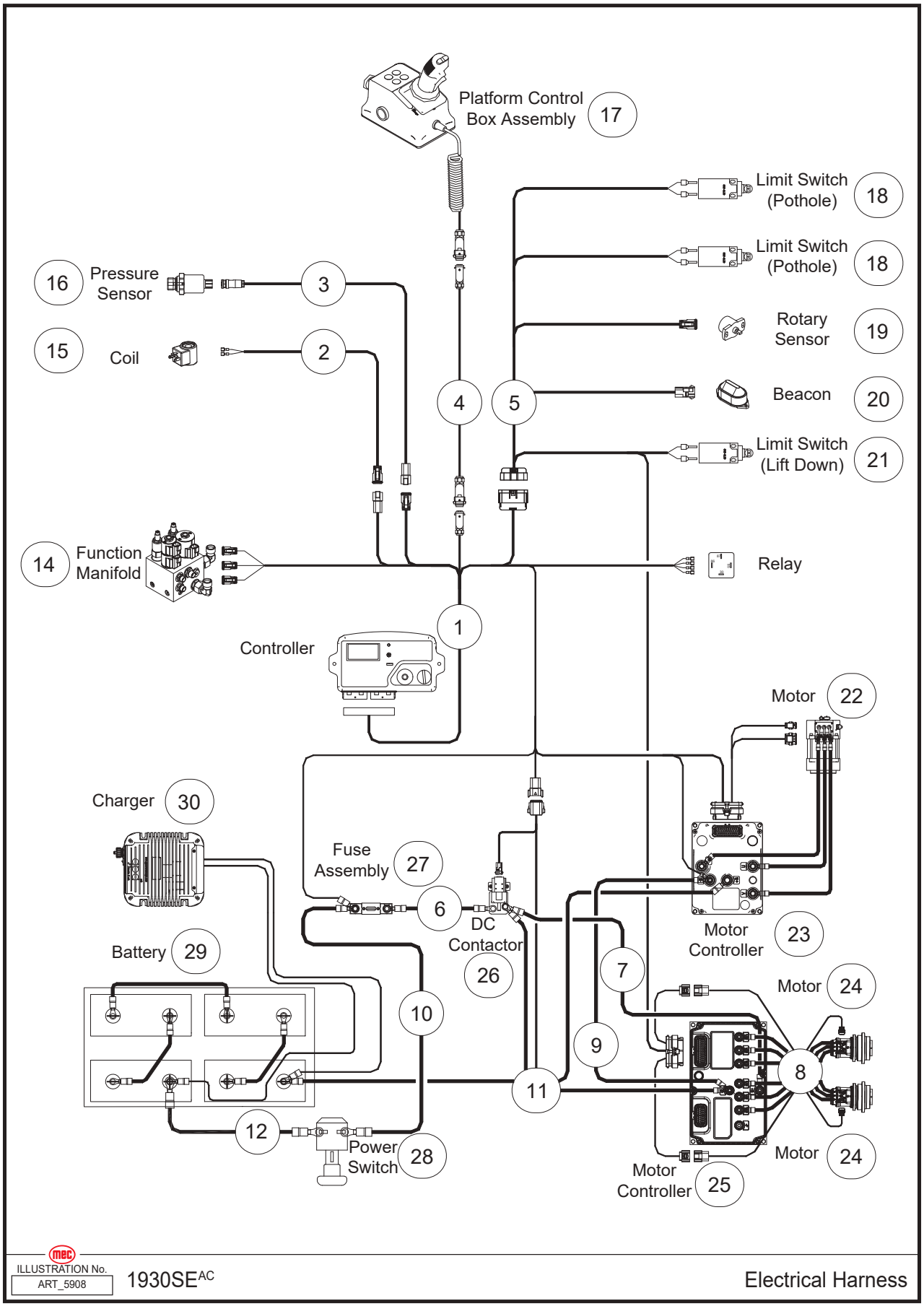


ILLUSTRATION No. ART_5908

1930SE^{AC}

Electrical Harness

Item	Part Number	Description	Qty.
1	46302	ECU Harness	1
2	46344	Lowering Valve Harness	1
3	46304	Pressure Sensor Harness (Matching With 44448 Pressure Sensor)	1
	46345	Pressure Sensor Harness (Matching With 46335 Pressure Sensor)	1
4	46334	Platform Control Box Harness	1
5	46305	Limit Switch and Drive Motor Harness	1
6	46306	Power Harness	1
7	46307	Power Harness	1
8	46346	Drive Motor Harness	1
9	46347	Power Harness	1
10	46309	Power Harness	1
11	46348	Power Harness	1
12	46311	Power Harness	1
13	--	--	--
14	46314	Function Manifold	1
15	41550	Coil, Lift Down	1
16	44448	Pressure Sensor (Current Signal)	1
	46335	Pressure Sensor (Voltage Signal)	1
17	REF	Platform Control Box Assembly (Refer to page 160)	1
18	46242	Limit Switch, Pothole	2
19	46267	Rotary Sensor	1
20	46264	Beacon	1
21	46265	Limit Switch, Lift Down	2
22	46259	Motor	1
23	46250	Motor Controller Pump	1
24	46233	Drive Motor Assembly	2
25	46271	Motor Controller, Drive	1
25	41331	DC Contactor	1
26	46246	250A Fuse Assembly	1
27	46245	Power Switch	1
28	46244	Battery	4
29	42903	Charger	1

Electrical Harness, 1930SE

Check Serial Number

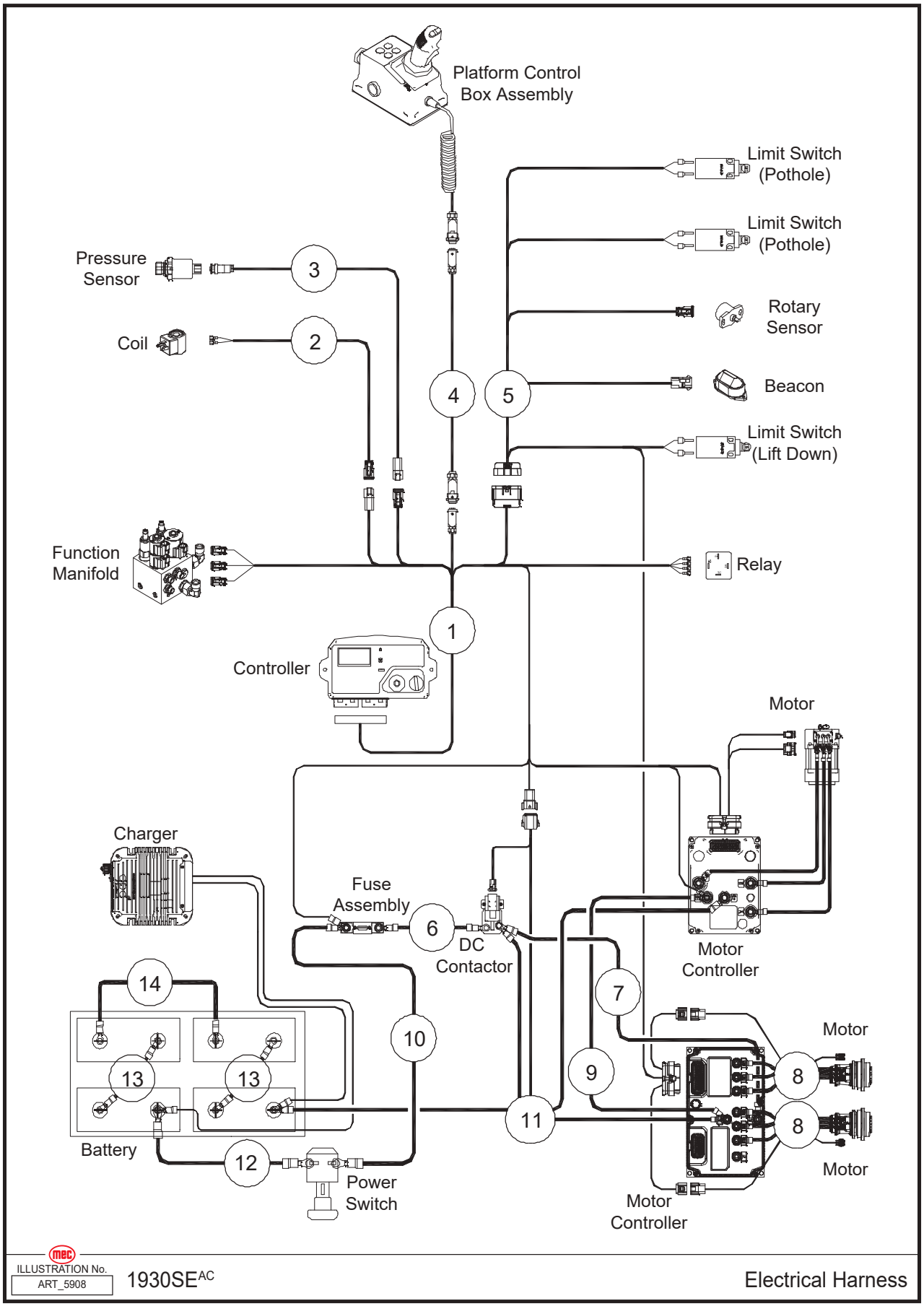


ILLUSTRATION No. ART_5908

1930SE^{AC}

Electrical Harness

Item	Part Number	Description	Qty.
1	46302	ECU Harness	1
2	46344	Lowering Valve Harness	1
3	46304	Pressure Sensor Harness (Matching with 44448 Pressure Sensor)	1
	46345	Pressure Sensor Harness (Matching with 46335 Pressure Sensor)	1
4	46334	Platform Control Box Harness	1
5	46305	Limit Switch and Drive Motor Harness	1
6	46306	Power Harness	1
7	46307	Power Harness	1
8	47482	Drive Motor Harness, Right Hand	1
	47489	Drive Motor Harness, Left Hand	1
9	46347	Power Harness	1
10	46309	Power Harness	1
11	46348	Power Harness	1
12	46311	Power Harness	1
13	45411	Battery Harness	2
14	45412	Battery Harness	1

Electrical Harness, 2632SE-4555SE

Check Serial Number

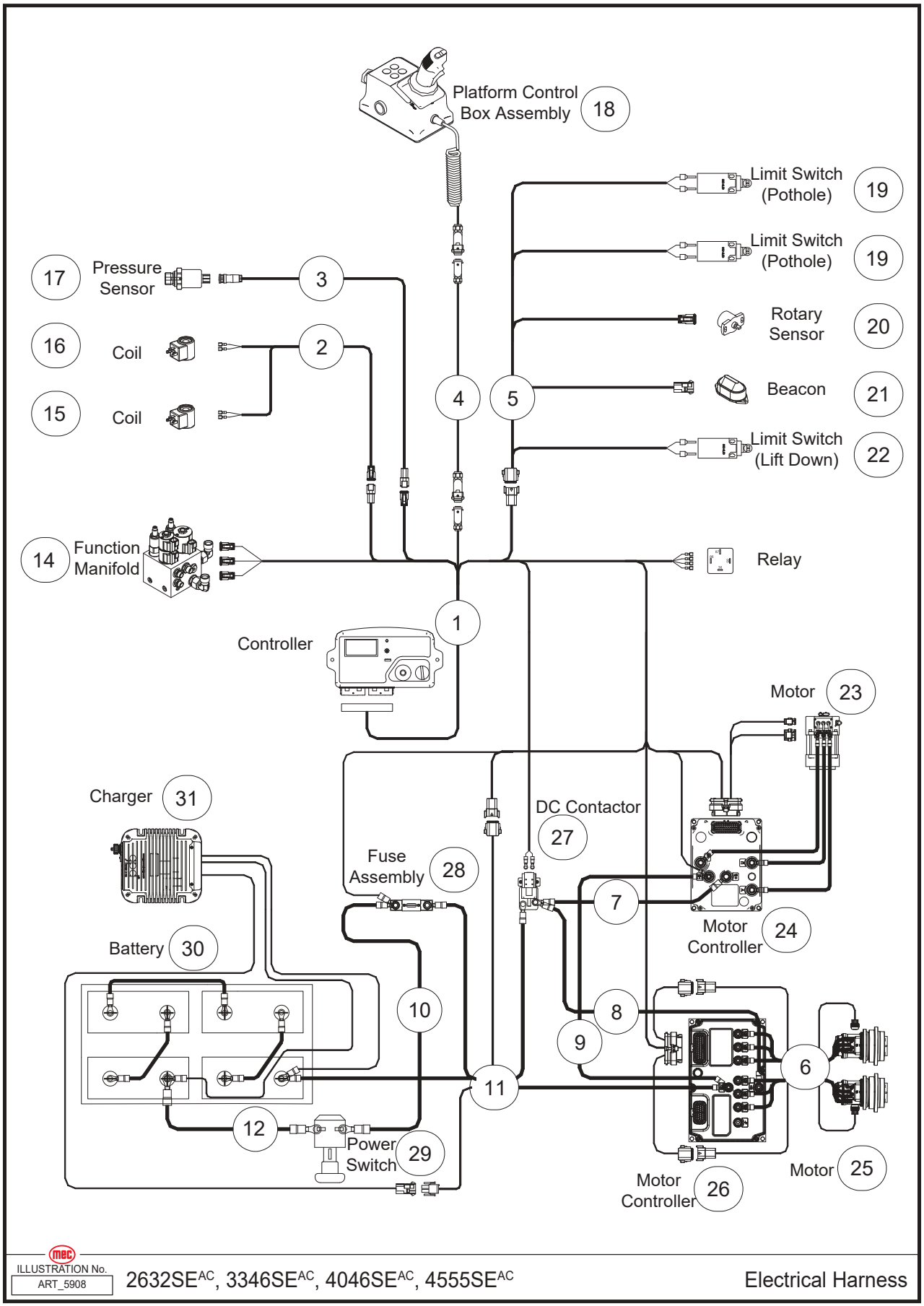


ILLUSTRATION No. ART_5908

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Electrical Harness

Item	Part Number	Description	Qty.
1	46411	ECU Harness	1
2	46412	Lowering Valve Harness (2632SE)	1
	46413	Lowering Valve Harness (3346SE, 4046SE)	1
	46414	Lowering Valve Harness (4555SE)	1
3	46415	Pressure Sensor Harness (2632SE, 3346SE, 4046SE)	1
	46416	Pressure Sensor Harness (4555SE)	1
4	46401	Platform Control Box Harness (2632SE)	1
	46402	Platform Control Box Harness (3346SE)	1
	46403	Platform Control Box Harness (4046SE)	1
	46404	Platform Control Box Harness (4555SE)	1
5	46417	Limit Switch Harness (2632SE)	1
	46418	Limit Switch Harness (3346SE, 4046SE)	1
	46419	Limit Switch Harness (4555SE)	1
6	46420	Drive Motor Harness (2632SE)	1
	46421	Drive Motor Harness (3346SE, 4046SE)	1
	46422	Drive Motor Harness (4555SE)	1
7	46423	Power Harness	1
8	46424	Power Harness	1
9	46425	Power Harness	1
10	46426	Power Harness	1
11	46427	Battery Harness (2632SE)	1
	46428	Battery Harness (3346SE, 4046SE)	1
	46429	Battery Harness (4555SE)	1
12	46430	Power Harness	1
13	--	--	--
14	46314	Function Manifold	1
15	41550	Coil	1
16	41551	Coil	1
17	44448	Pressure Sensor	1
18	REF	Platform Control Box Assembly (Refer to page 160)	1
19	46242	Limit Switch, Pothole	2
20	46267	Rotary Sensor	1
21	46264	Beacon	1
22	46265	Limit Switch, Lift Down	1
23	46431	Motor	1
24	46250	Motor Controller	1
25	--	--	--
26	46271	Motor Controller	1
27	41331	DC Contactor	1
28	46363	300A Fuse Assembly	1
29	42071	Power Switch	1
30	46244	Battery (2632SE)	4
	46368	Battery (3346SE) (Need To Install The Liner 46369)	4
	46370	Battery (4046SE, 4555SE)	4
31	42903	Charger	1

Electrical Harness, 2632SE, 3346SE

Check Serial Number

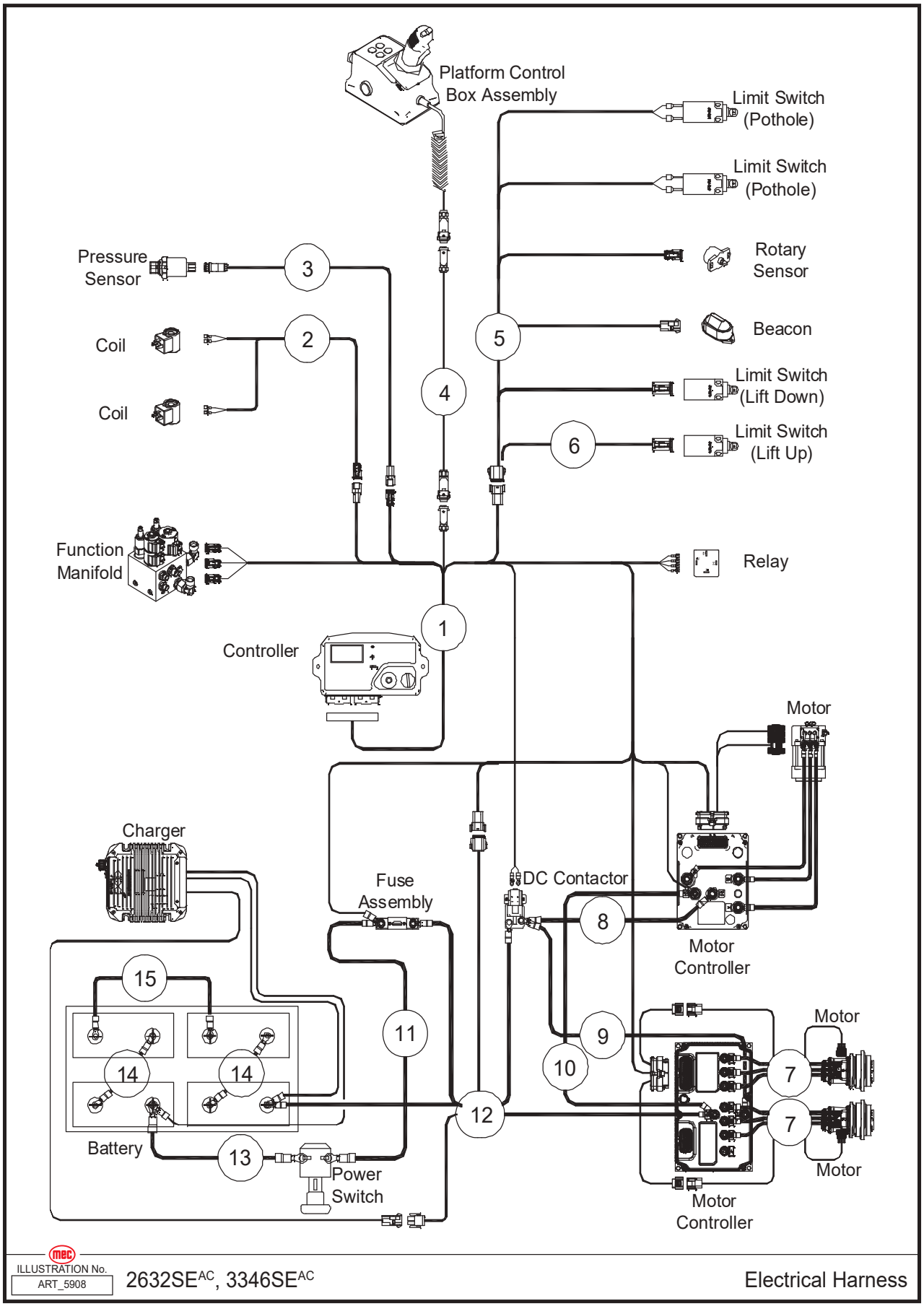


ILLUSTRATION No. ART_5908

2632SE^{AC}, 3346SE^{AC} Electrical Harness

Item	Part Number	Description	Qty.
1	46411	ECU Harness	1
2	46412	Lowering Valve Harness (2632SE)	1
	46413	Lowering Valve Harness (3346SE)	1
3	46415	Pressure Sensor Harness (Matching with 44448 pressure sensor)	1
4	46401	Platform Control Box Harness (2632SE)	1
	46402	Platform Control Box Harness (3346SE)	1
5	46417	Limit Switch Harness (2632SE)	1
	46418	Limit Switch Harness (3346SE)	1
6	45408	Outdoor Limit Up Switch Harness	1
7	45409	Drive Motor Harness (2632SE)	2
	45410	Drive Motor Harness (3346SE)	2
8	46423	Power Harness	1
9	46424	Power Harness	1
10	46425	Power Harness	1
11	46426	Power Harness	1
12	46427	Battery Harness (2632SE)	1
	46428	Battery Harness (3346SE)	1
13	46430	Power Harness	1
14	45411	Battery Harness	2
15	45412	Battery Harness	1

Electrical Harness, 3232SE-4555SE

Check Serial Number

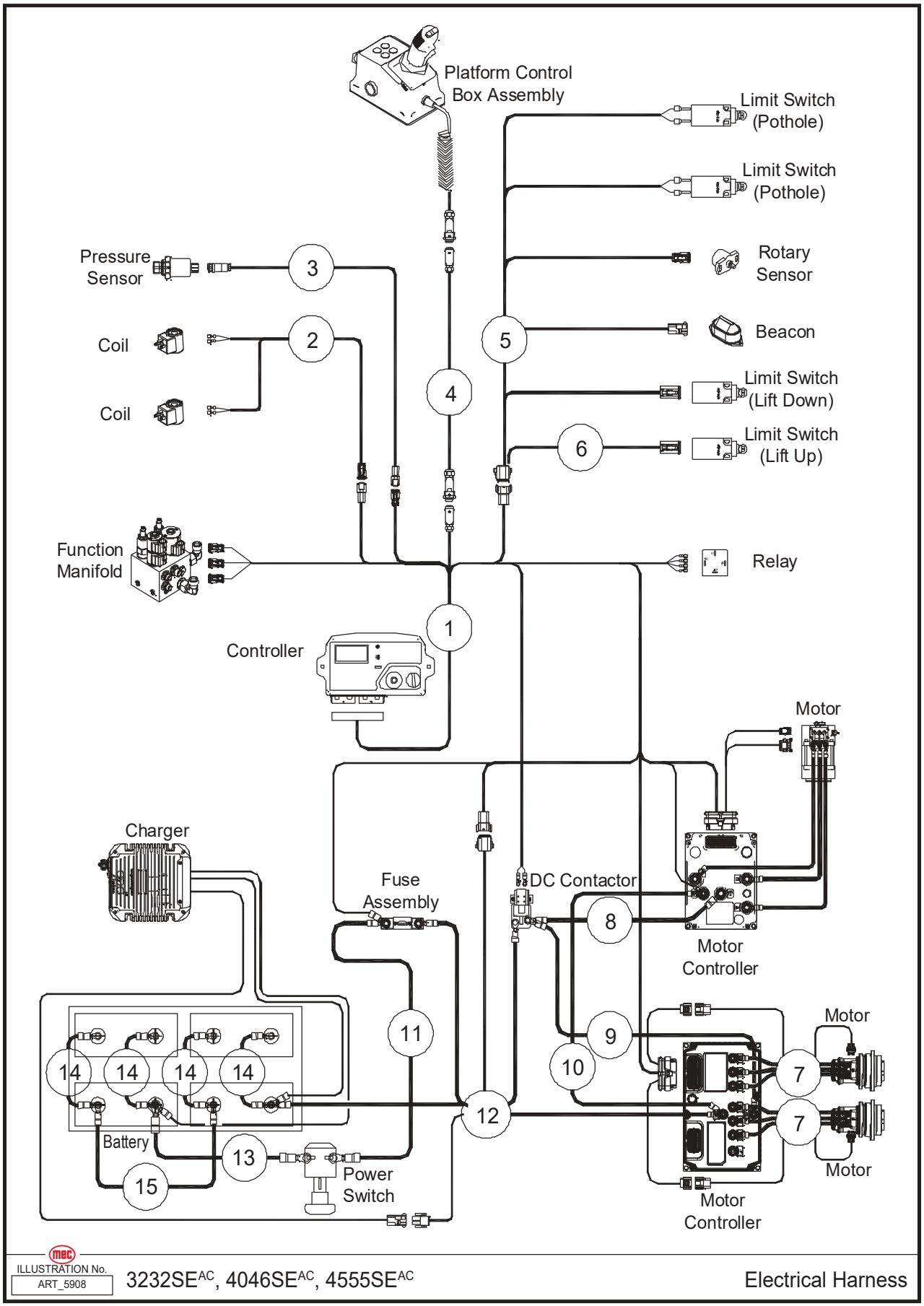


ILLUSTRATION No. ART_5908

3232SE^{AC}, 4046SE^{AC}, 4555SE^{AC} Electrical Harness

Item	Part Number	Description	Qty.
1	46411	ECU Harness	1
2	46413	Lowering Valve Harness (3232SE, 4046SE)	1
	46414	Lowering Valve Harness (4555SE)	1
3	46415	Pressure Sensor Harness (3232SE, 4046SE) (Matching with 44448 pressure sensor)	1
	46416	Pressure Sensor Harness (4555SE) (Matching with 44448 pressure sensor)	1
4	46402	Platform Control Box Harness (3232SE)	1
	46403	Platform Control Box Harness (4046SE)	1
	46404	Platform Control Box Harness (4555SE)	1
5	46417	Limit Switch Harness (3232SE)	1
	46418	Limit Switch Harness (4046SE)	1
	46419	Limit Switch Harness (4555SE)	1
6	45408	Outdoor Limit Up Switch Harness	1
7	45409	Drive Motor Harness (3232SE)	2
	45410	Drive Motor Harness (4046SE)	2
	45413	Drive Motor Harness (4555SE)	2
8	46423	Power Harness	1
9	46424	Power Harness	1
10	46425	Power Harness	1
11	46426	Power Harness	1
12	46427	Battery Harness (3232SE)	1
	46428	Battery Harness (4046SE)	1
	46429	Battery Harness (4555SE)	1
13	46430	Power Harness	1
14	45414	Battery Harness, 7.6in (195mm)	4
	45415	Battery Harness, 14.9in (380mm)	1

Power to Platform, 1930SE

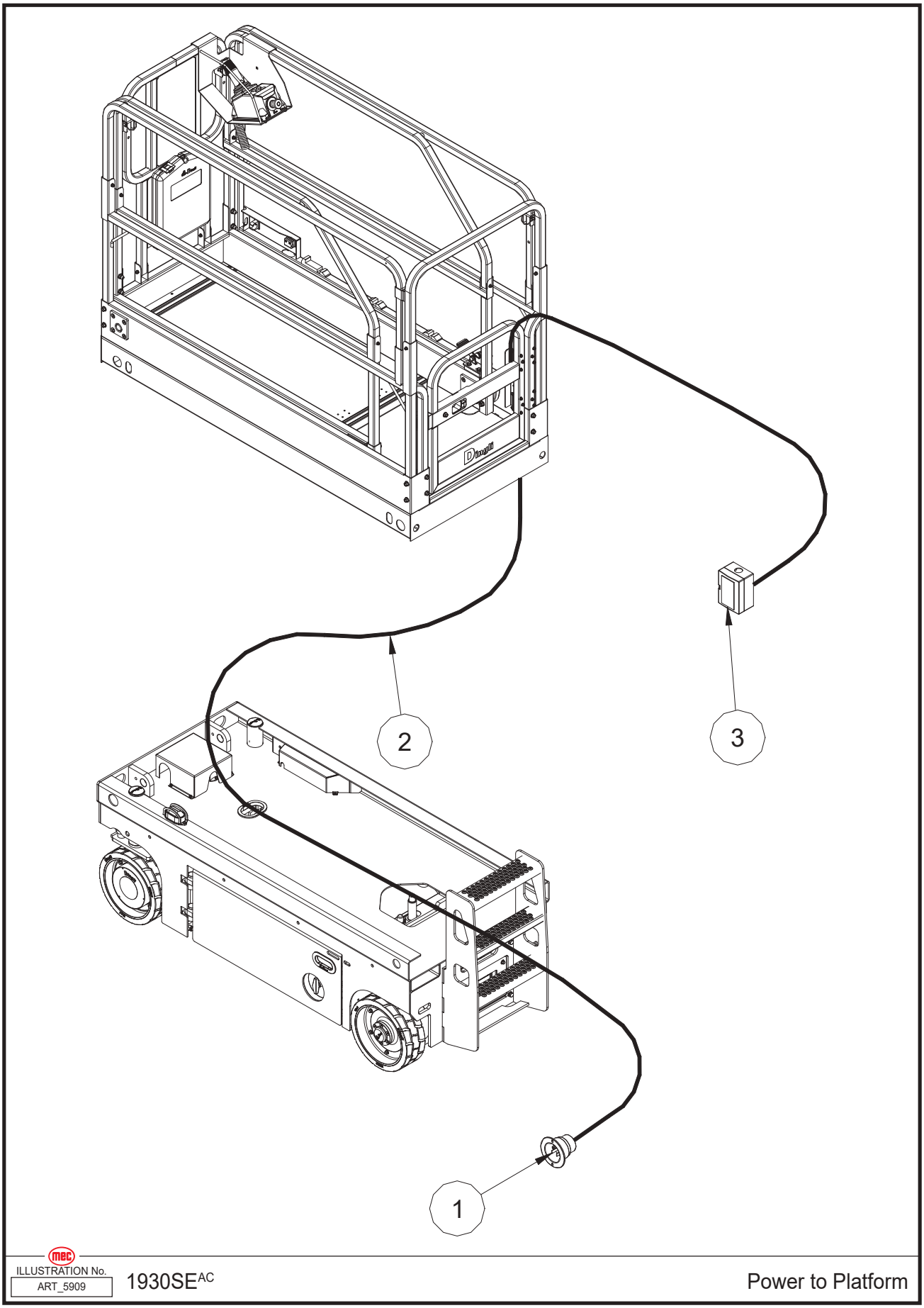


ILLUSTRATION No. ART_5909

1930SE^{AC}

Power to Platform

Item	Part Number	Description	Qty.
1	REF	AC Plug (Refer to page 103)	1
2	46350	Wire Cable, Platform AC Power	1
3	42613	AC Socket	1

REF - Reference

Power to Platform, 2632SE-4555SE

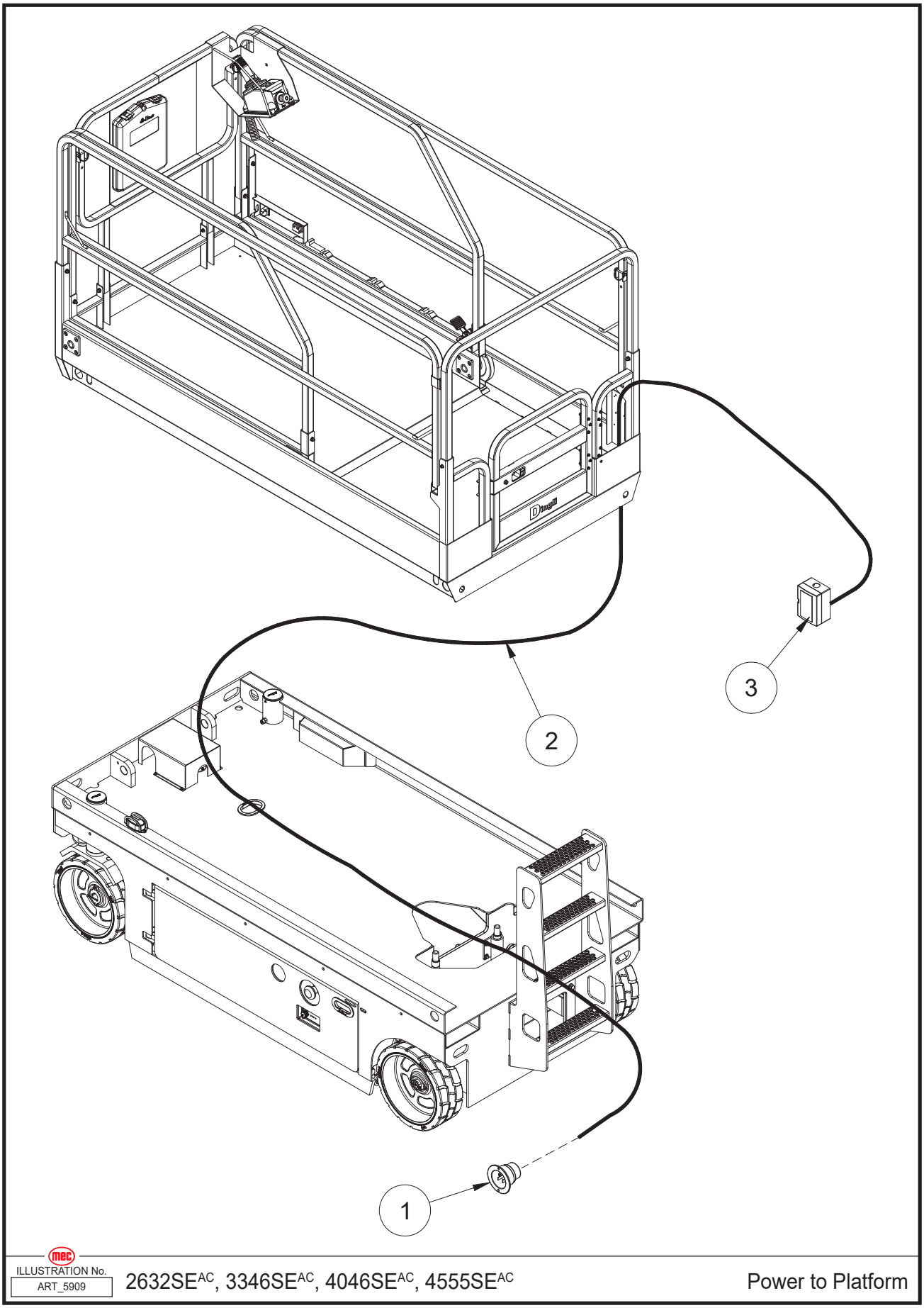


ILLUSTRATION No. ART_5909

2632SE^{AC}, 3346SE^{AC}, 4046SE^{AC}, 4555SE^{AC}

Power to Platform

Item	Part Number	Description	Qty.
1	REF	AC Plug (Refer to page 111)	1
2	43721	Wire Cable, Platform AC Power (2632SE)	1
	46434	Wire Cable, Platform AC power (3232SE, 3346SE)	1
	46435	Wire Cable, Platform AC Power (4046SE)	1
	46436	Wire Cable, Platform AC Power (4555SE)	1
3	42613	AC Socket	1

REF - Reference

Leak Containment System, 1930SE

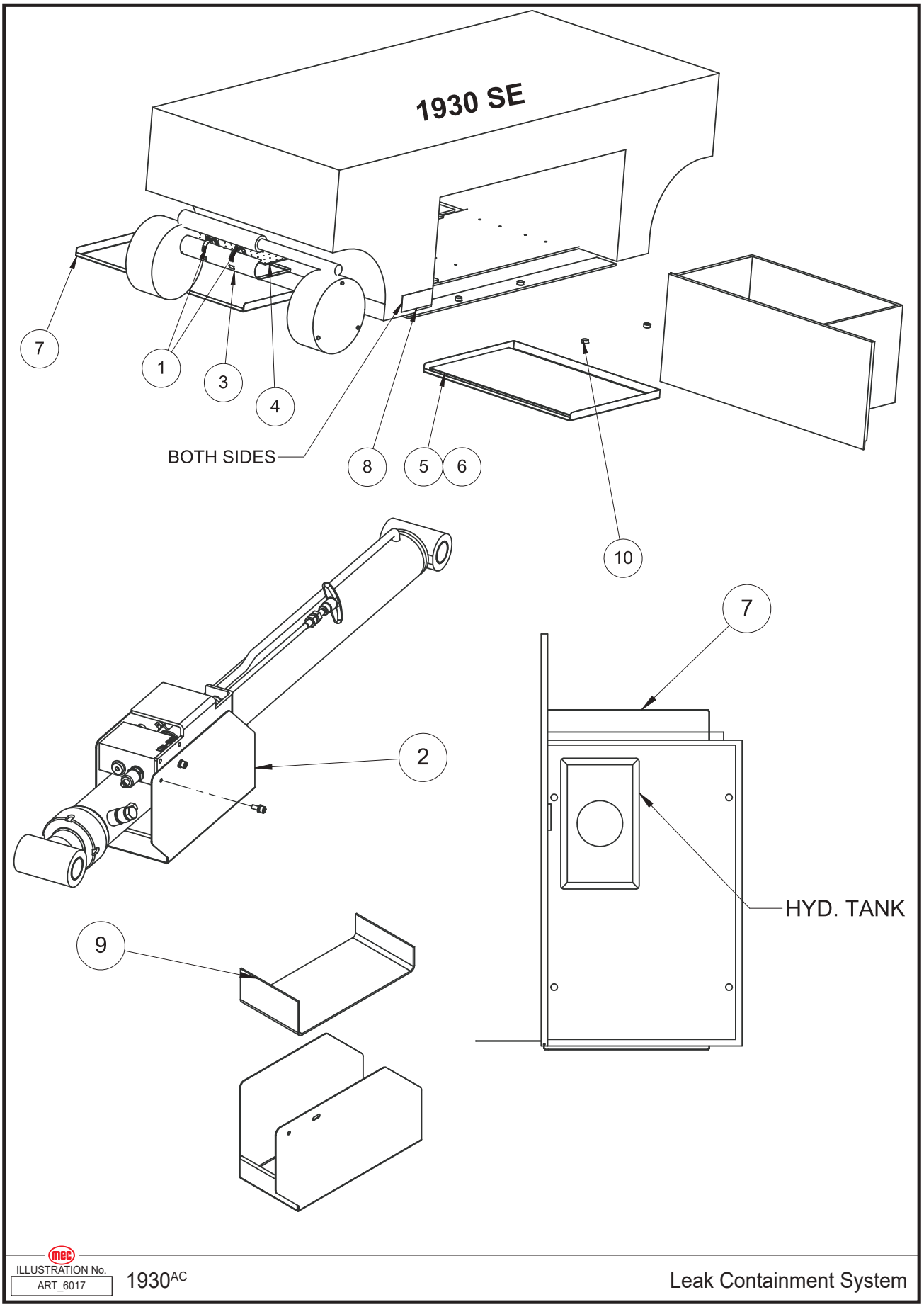


ILLUSTRATION No. ART_6017

1930AC

Leak Containment System

Item	Part Number	Description	Qty.
1	7545	Clamp Hose #28 1 5/16-2 1/4	2
2	18679	Cylinder Guard Universal	1
3	42926	Steer Cylinder Containment Tray 1930	1
4	**42932**	**Absorbent Pad For Steer Cylinder (MICRO 19/1330)**	**1**
5	**42935**	**Absorbent Pad For MICRO 19**	**1**
6	45236	Leak Containment Tray Battery Side (1930)	1
7	45237	Leak Containment Tray Control Side (1930)	1
8	43838	UHMW Black Guard Strip 1930 & MICRO 26	2
9	**44266**	**Absorbent Pad, Cylinder Guards**	**1**
10	95048	Magnet 30 LB (Max Pull Force)	8

Leak Containment System, 2632SE

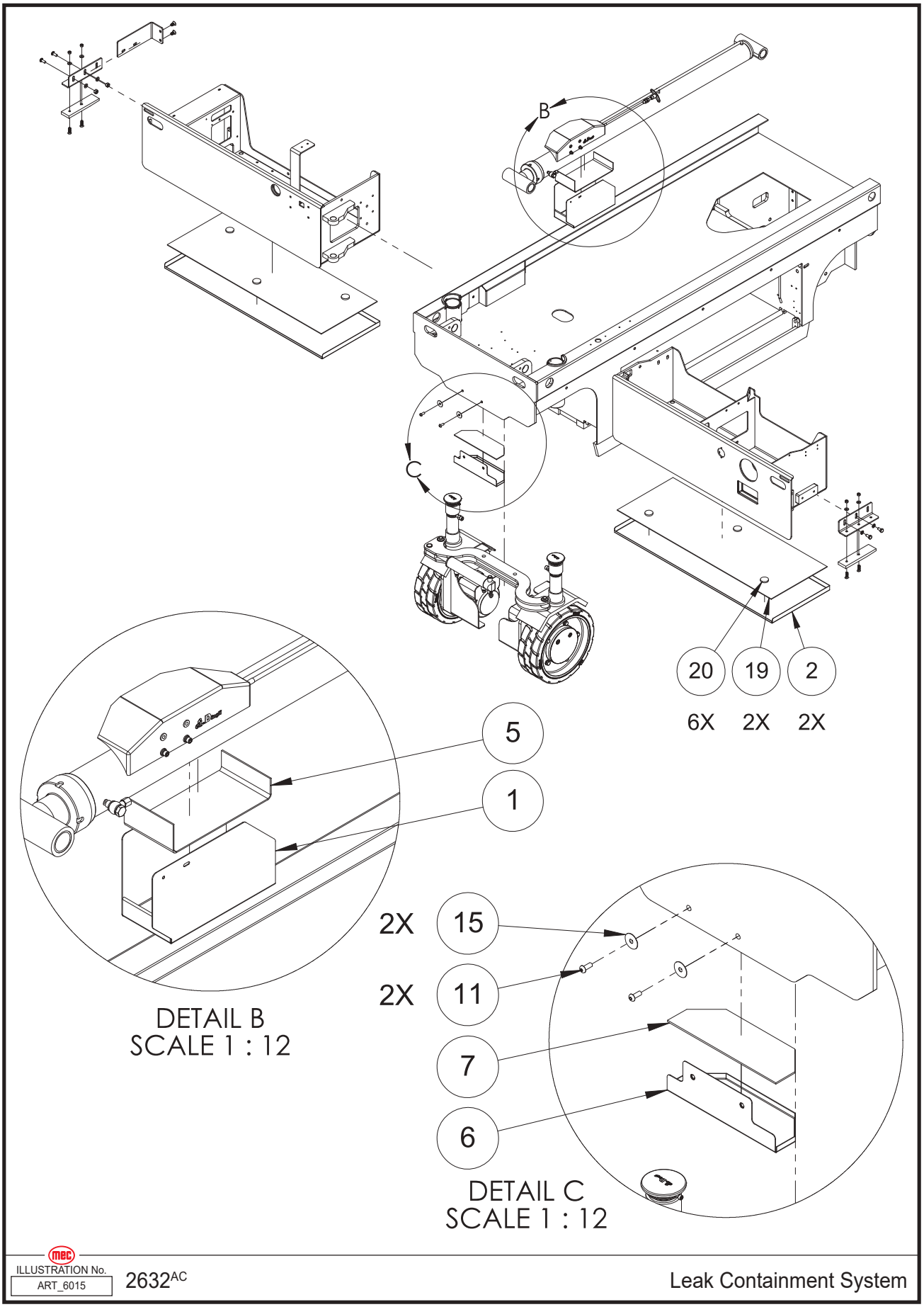


ILLUSTRATION No. ART_6015

2632AC

Leak Containment System

Item	Part Number	Description	Qty.
1	18679	Cylinder Guard Universal	1
2	42970	Leak Containment Tray	2
3	--	--	--
4	--	--	--
5	**44266**	**Absorbent Pad, Cylinder Guards**	**1**
6	47215	LCS Tray Weldment, Steer Cylinder (2632AC)	1
7	**47216**	**LCS Absorbent Pad, Steer Cylinder (2632AC)**	**1**
8	--	--	--
9	--	--	--
10	--	--	--
11	50009	BHCS M08-1.25 X 20, 10, ZP, P	2
12	--	--	--
13	--	--	--
14	--	--	--
15	50234	WSHR 05/16 ZP FENDER	2
16	--	--	--
17	--	--	--
18	--	--	--
19	**95049**	**Absorbent Pad For 2632-4555**	**2**
20	95082	Disc Magnet 44LB	6
21	--	--	--

Leak Containment System, 3232SE-4046SE

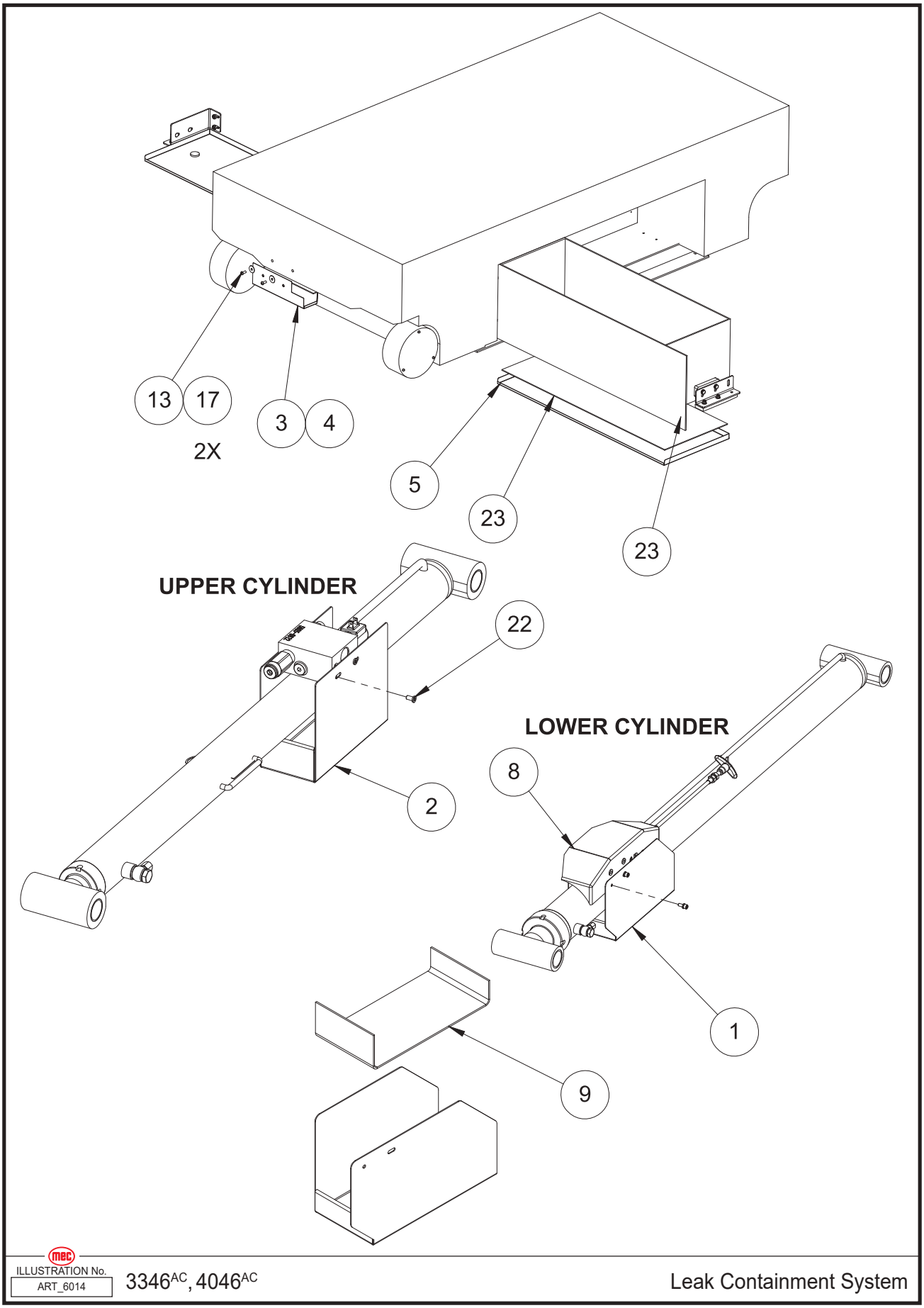


ILLUSTRATION No. ART_6014

3346AC, 4046AC

Leak Containment System

Item	Part Number	Description	Qty.
1	18679	Cylinder Guard Universal Large Slabs	1
2	31415	Upper Cylinder Guard	1
3	42931	Steer Cyl. Tray Weldment 2632-4555	1
4	**42934**	**Steer Cyl. Absorbent Pad 2632-4555**	**1**
5	42970	Leak Containment Tray (2632-4046)	2
6	--	--	--
7	--	--	--
8	44238	Cylinder Guard Hose Wrap	2
9	**44266**	**Absorbent Pad, Cylinder Guards**	**2**
10	--	--	--
11	--	--	--
12	--	--	--
13	50009	BHCS M08-1.25 X 20, 10, ZP, P	2
14	--	--	--
15	--	--	--
16	--	--	--
17	50234	WSHR 05/16 ZP Fender	2
18	--	--	--
19	--	--	--
20	--	--	--
21	--	--	--
22	**95049**	**Absorbent Pad For 2632-4555**	**1**
23	95082	Disc Magnet 44LB	6
24	--	--	--

Leak Containment System, 4555SE

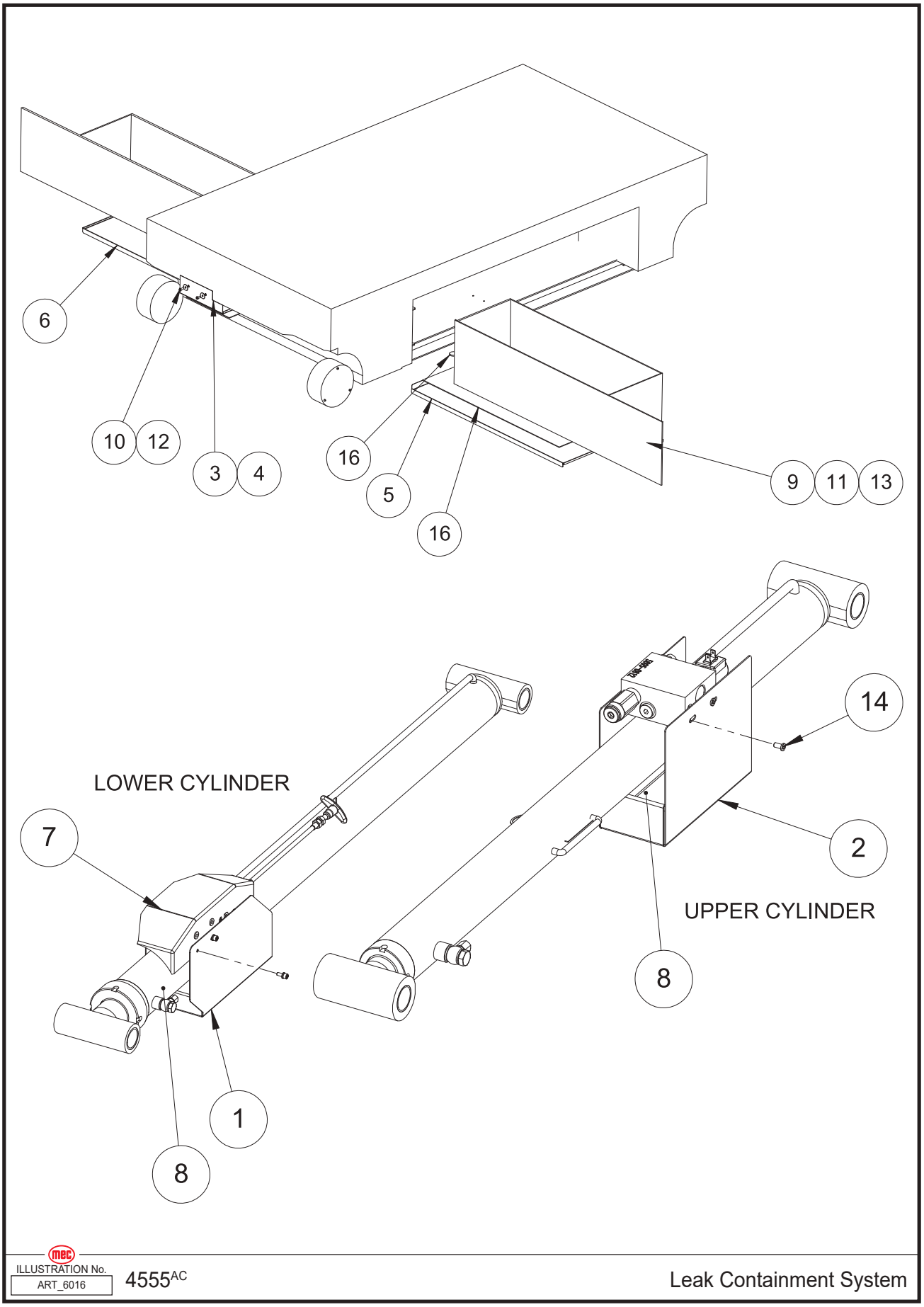


ILLUSTRATION No. ART_6016

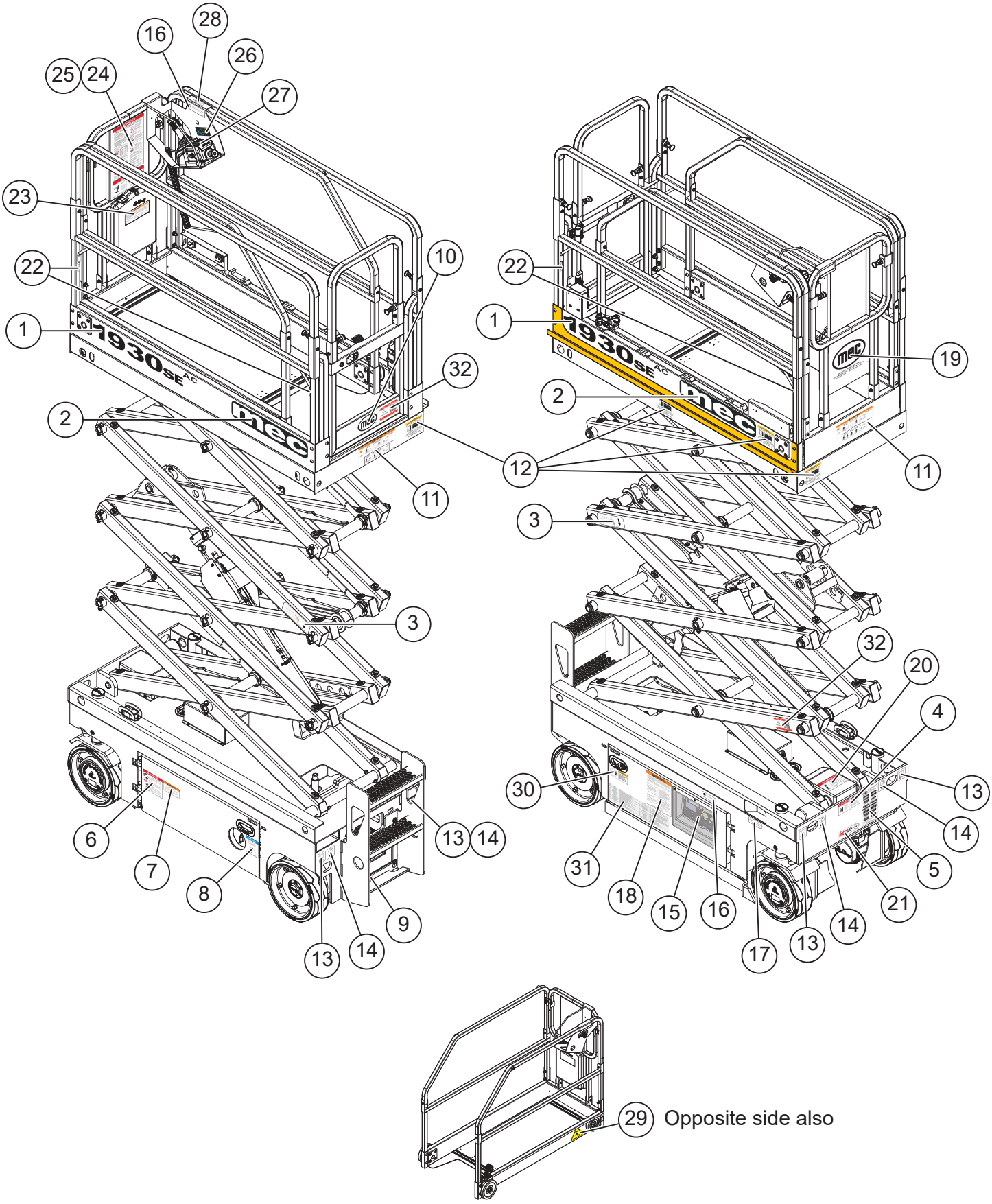
4555AC

Leak Containment System

Item	Part Number	Description	Qty.
1	18679	Cylinder Guard Universal Large Slabs 1930 To 4555	1
2	31415	Upper Cylinder Guard	1
3	42931	Steer Cyl. Tray Weldment 2632-4555	1
4	**42934**	**Steer Cyl. Absorbent Pad 2632-4555**	**1**
5	42977	Leak Containment Tray (4555)	1
6	42978	Leak Containment Tray Control Side (4555)	1
7	44238	Cylinder Guard Hose Wrap	2
8	**44266**	**Absorbent Pad, Cylinder Guards**	**2**
9	50001	WSHR M08 ZP Standard Flat	4
10	50009	BHCS M08-1.25 X 20, 10, ZP, P	2
11	50048	NNYL M08X1.25 08 ZP Nylon	4
12	50234	WSHR 05/16 ZP Fender	2
13	53252	M08-1.25 X 30 SS	4
14	53370	SHCS M6 X 10 Black Oxide Ultra Lo Profile	4
15	**95049**	**Absorbent Pad For 2632-4555**	**2**
16	95082	Disc Magnet 44LB	6
17	A0005	LOCTITE 565, Thread Sealant 50	REF

REF - Reference

Decals - 1930SE



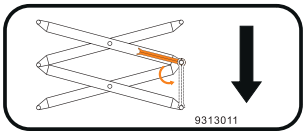
1

95927 Qty. - 2

2

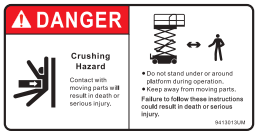
94114 Qty. - 2

3



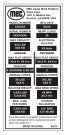
41638 Qty. - 2

4



41646 Qty. - 1

5



95215 Qty. - 1

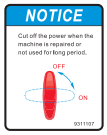
6

41641 Qty. - 1

7

41905 Qty. - 1

8



41666 Qty. - 1

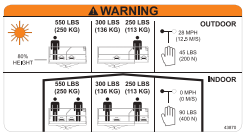
9

94659 Qty. - 1

10

94115 Qty. - 1

11



43870 Qty. - 2

12

46450 Qty. - 4

13

41635 Qty. - 4

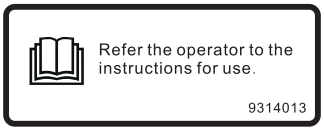
14

41634 Qty. - 4

15

44795 Qty. - 1

16



41639 Qty. - 2

17

41636 Qty. - 1

18

41649 Qty. - 1

19

90719 Qty. - 1

20

41642 Qty. - 1

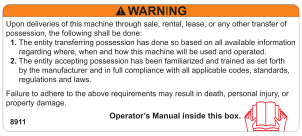
21

94423 Qty. - 1

22

41648 Qty. - 4

23



8911 Qty. - 1

24

41652 Qty. - 1

25

41647 Qty. - 1

26

94120 Qty. - 2

27

44797 Qty. - 1

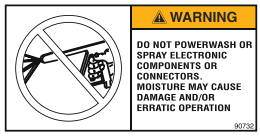
28

41640 Qty. - 1

29

91850 Qty. - 2

30



90732 Qty. - 1

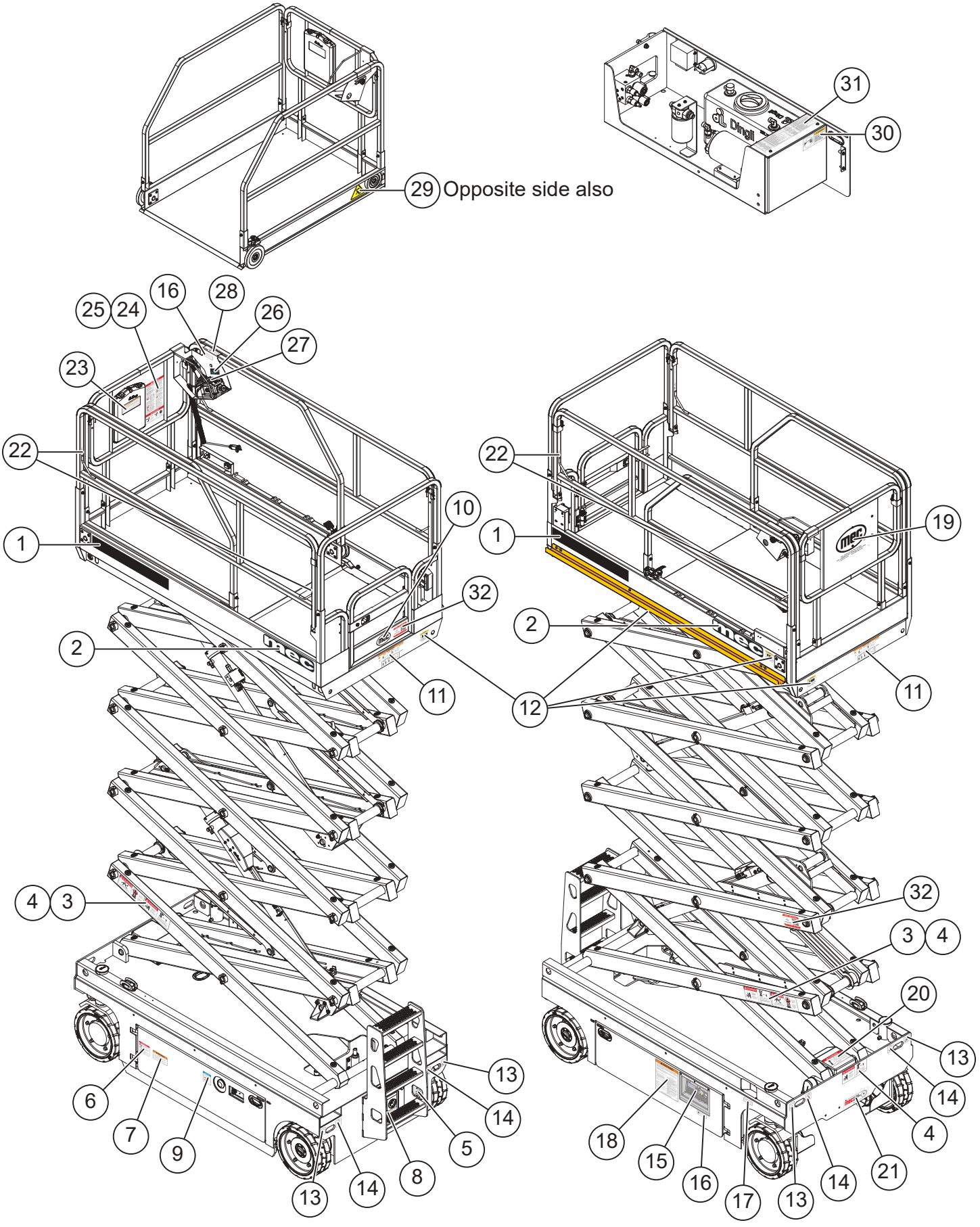
31

43879 Qty. - 1

32

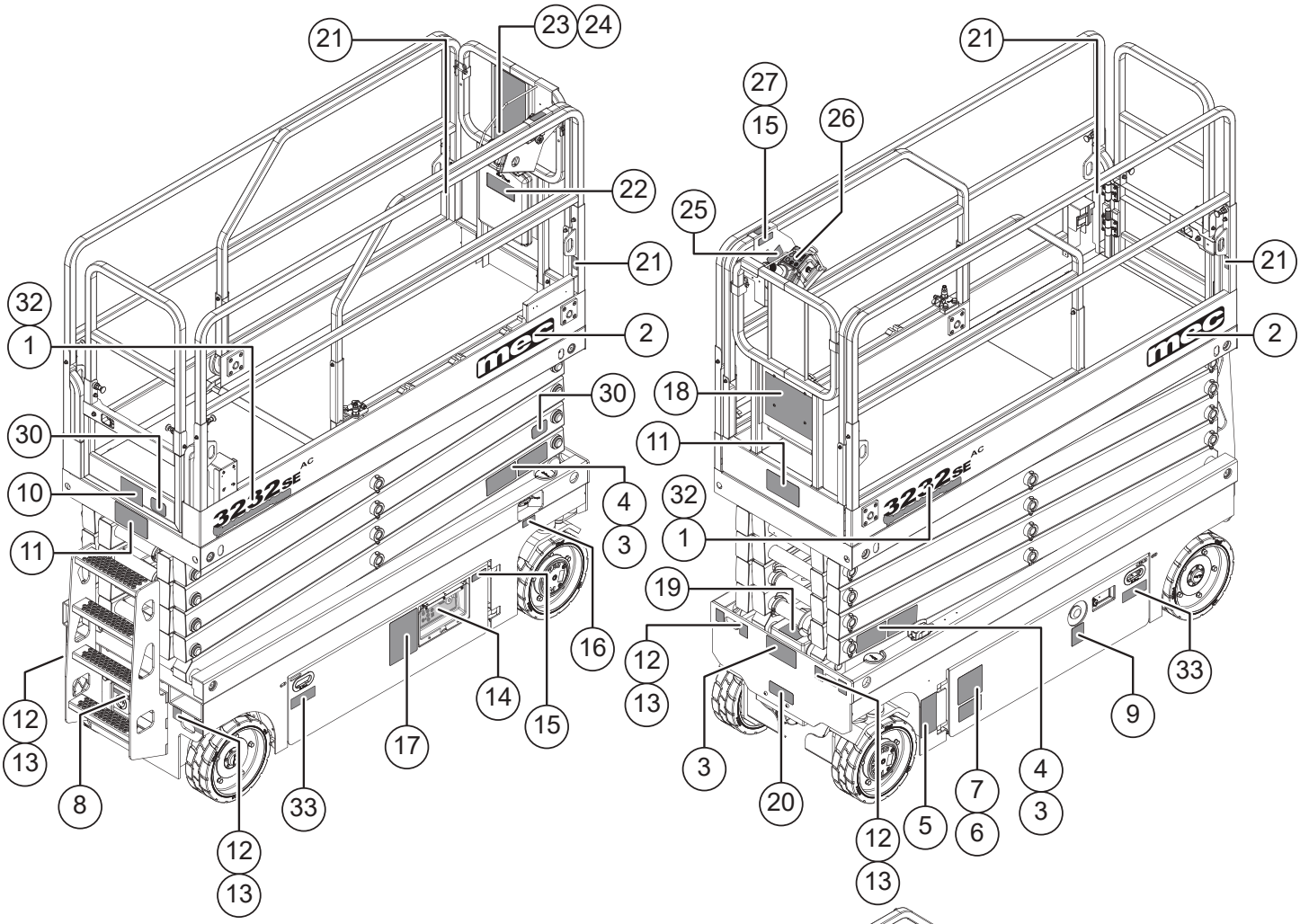
95256 Qty. - 2

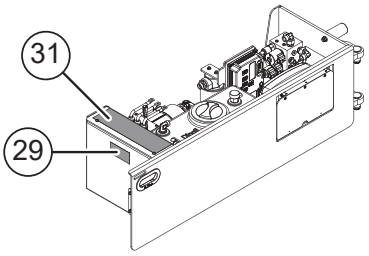
Decals - 2633SE & 3346SE



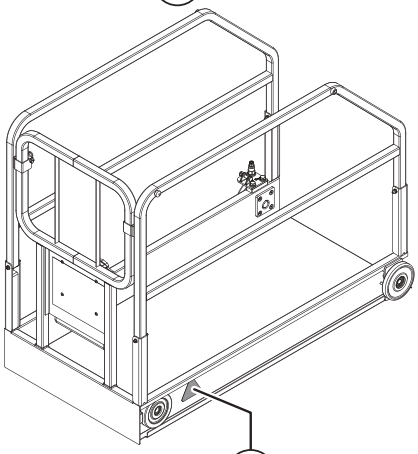
1 2632SE AC 2632SE ONLY 95928 Qty. - 2	2 3346SE AC 3346SE ONLY 95929 Qty. - 2	2 mec 94114 Qty. - 2	3 DANGER Crushing Hazard 41748 Qty. - 2	4 DANGER Crushing Hazard 41646 Qty. - 3
5 95215 Qty. - 1	6 DANGER 41641 Qty. - 1	7 WARNING Tip-over Hazard 2632SE ONLY 42293 Qty. - 1	WARNING Tip-over Hazard 3346SE ONLY 41583 Qty. - 1	8 BATTERY CHARGER AND POWER TO PLATFORM 94659 Qty. - 1
9 NOTICE 41637 Qty. - 1	10 mec 94115 Qty. - 1	11 WARNING 2632SE ONLY 43870 Qty. - 2	WARNING 3346SE ONLY 46447 Qty. - 2	12 WARNING 2632SE ONLY 46450 Qty. - 4
WARNING 3346SE ONLY 46451 Qty. - 4	13 41635 Qty. - 4	14 41634 Qty. - 4	15 44795 Qty. - 1	16 Refer the operator to the instructions for use. 9314013 41639 Qty. - 2
17 EMERGENCY LOWER Pull knob to lower platform 9311017 41636 Qty. - 1	18 WARNING 41649 Qty. - 1	19 mec 90719 Qty. - 1	20 DANGER Tip-over Hazard 41642 Qty. - 1	21 mec DIRECT ELECTRIC DRIVE 94423 Qty. - 1
22 Restraint only 1 Occurrence 41648 Qty. - 4	23 WARNING 8911 Qty. - 1	24 41652 Qty. - 1	25 DANGER Tip-over Hazard 41647 Qty. - 1	26 DRIVE REVERSE/ LIFT UP DRIVE FORWARD/ LOWER 94120 Qty. - 1
27 44797 Qty. - 1	28 Platform controller normal position. 9314015 41640 Qty. - 1	29 91850 Qty. - 2	30 WARNING DO NOT POWERWASH OR SPRAY ELECTRONIC COMPONENTS OR CONNECTORS. MOISTURE MAY CAUSE DAMAGE AND/OR ERRATIC OPERATION 90732 Qty. - 1	31 43879 Qty. - 1
32 MEC - Model Info 2632SE ONLY 95257 Qty. - 2	MEC - Model Info 3346SE ONLY 95258 Qty. - 2			

Decals - 3232SE



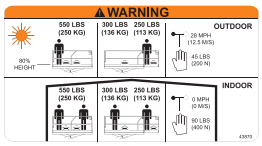
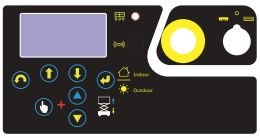
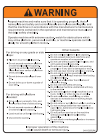


CONTROL MODULE

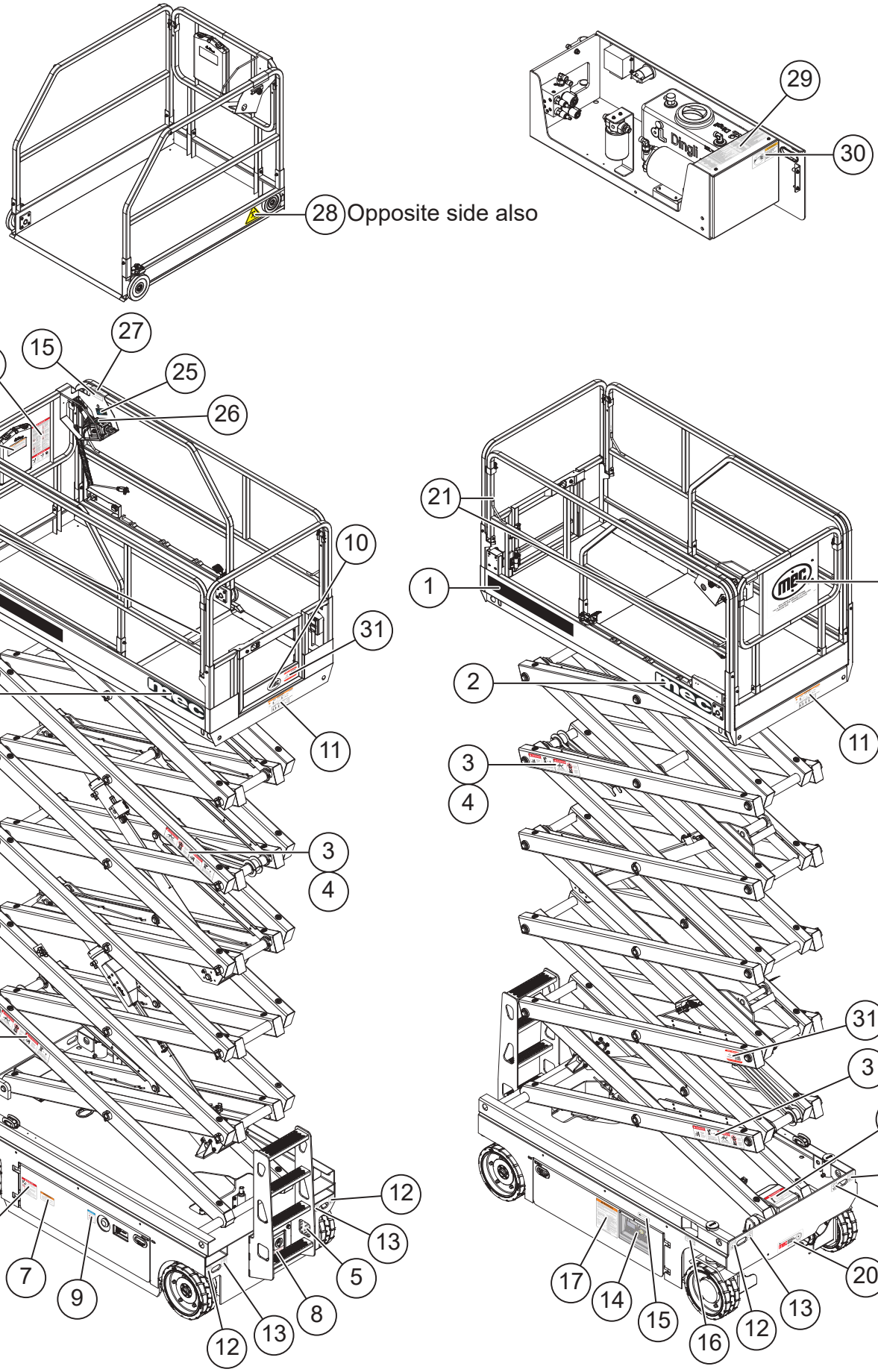


*On both sides

PLATFORM EXTENDED

1 3232 SE AC 96468 Qty. - 2	**2** mec 94114 Qty. - 2	**3** DANGER Crushing Hazard Don't engage safety arm unless platform unloaded. Engage all safety arms before performing maintenance or repair. 46773 Qty. - 2	**4** DANGER Crushing Hazard Contact with moving parts will result in death or serious injury. • Do not stand under or around platform during operation. • Keep away from moving parts. Failure to follow these instructions could result in death or serious injury. 41646 Qty. - 3	**5**  95215 Qty. - 1
6  DANGER Explosion/Burn Hazard 41641 Qty. - 1	**7** WARNING Tip-over Hazard Do not use batteries that weigh less than the original equipment. Batteries are used as counterweight and are critical to machine stability. Each battery must weigh **62 lbs / 28 kg**. The batteries must weigh a minimum of **248 lbs / 112 kg**. 9411031UM 42293 Qty. - 1	**8** BATTERY CHARGER AND POWER TO PLATFORM 94659 Qty. - 1	**9** NOTICE Cut off the power when the machine is repaired or not used for long period. ON OFF 41637 Qty. - 1	**10** mec 95301 Qty. - 1
11  WARNING OUTDOOR INDOOR 43870 Qty. - 2	**12**  9311015 41635 Qty. - 4	**13**  9311013 41634 Qty. - 4	**14**  44795 Qty. - 1	**15** Refer the operator to the instructions for use. 9314013 41639 Qty. - 2
16 EMERGENCY LOWER Pull knob to lower platform 9311017 41636 Qty. - 1	**17**  WARNING 41649 Qty. - 1	**18** mec MEC AERIAL WORK PLATFORMS 1401 S. MADERA AVE, KERMAN, CA 93630 USA 90719 Qty. - 1	**19** DANGER Tip-over Hazard Altering or disabling limit switches can result in machine tip-over. Machine tip-over will result in death or serious injury. Do not alter or disable limit switch(s). 9411015UM 41642 Qty. - 1	**20** mec DIRECT ELECTRIC DRIVE 94423 Qty. - 1
21 Restraint only 1 Occurrence 9414123UM 41648 Qty. - 4	**22** WARNING Upon deliveries of this machine through sale, rental, lease, or any other transfer of possession, the following shall be done: 1. The entity transferring possession has done so based on all available information regarding where, when and how this machine will be used and operated. 2. The entity accepting possession has been familiarized and trained as set forth by the manufacturer and in full compliance with all applicable codes, standards, regulations and laws. Failure to adhere to the above requirements may result in death, personal injury, or property damage. Operator's Manual inside this box. 8911 8911 Qty. - 1	**23**  DANGER 41749 Qty. - 1	**24** DANGER Tip-over Hazard 1.Lower the platform. 2.Move the machine to level surface. 41647 Qty. - 1	**25** DRIVE REVERSE/ LIFT UP DRIVE FORWARD/ LOWER 94120 Qty. - 1
26  44797 Qty. - 1	**27** Platform controller normal position. 9314015 41640 Qty. - 1	**28**  91850 Qty. - 2	**29** WARNING DO NOT POWERWASH OR SPRAY ELECTRONIC COMPONENTS OR CONNECTORS. MOISTURE MAY CAUSE DAMAGE AND/OR ERRATIC OPERATION 90732 90732 Qty. - 1	**30** MEC - Model Info Text 3232SE to 1 (844) 483-4669 Manuals Brochures Warranty & More 96475 Qty. - 2
31  43879 Qty. - 1	**32** Leak Containment System 94866 Qty. - 2	**33** Leak Containment System Patent 11,112,060 94867 Qty. - 2		

Decals - 4046SE & 4555SE



1

4046SE AC

4046SE ONLY

95930 Qty. - 2

2

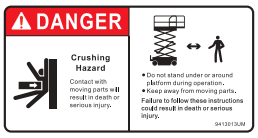
95931 Qty. - 2

94114 Qty. - 2

3

46773 Qty. - 4

4



41646 Qty. - 5

5

95215 Qty. - 1

6

41641 Qty. - 1

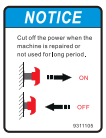
7

41644 Qty. - 1

8

94659 Qty. - 1

9

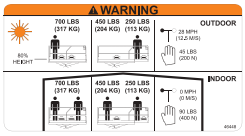


41637 Qty. - 1

10

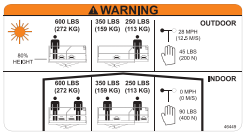
94115 Qty. - 1

11 4046SE ONLY



46448 Qty. - 2

4555SE ONLY



46449 Qty. - 2

12

41635 Qty. - 4

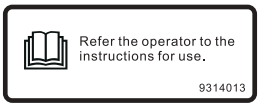
13

41634 Qty. - 4

14

44795 Qty. - 1

15

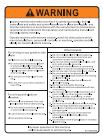


41639 Qty. - 2

16

41636 Qty. - 1

17

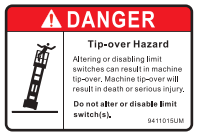


41649 Qty. - 1

18

90719 Qty. - 1

19



41642 Qty. - 1

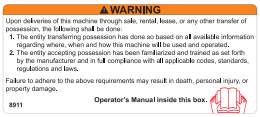
20

94423 Qty. - 1

21

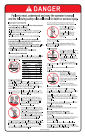
41648 Qty. - 4

22



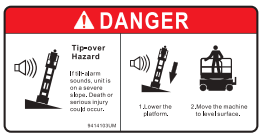
8911 Qty. - 1

23



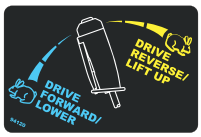
41652 Qty. - 1

24



41647 Qty. - 1

25



94120 Qty. - 1

26

44797 Qty. - 1

27

41640 Qty. - 1

28

91850 Qty. - 2

29

90732 Qty. - 1

30

43879 Qty. - 1

31 4046SE ONLY

95259 Qty. - 2

4555SE ONLY

95260 Qty. - 2

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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