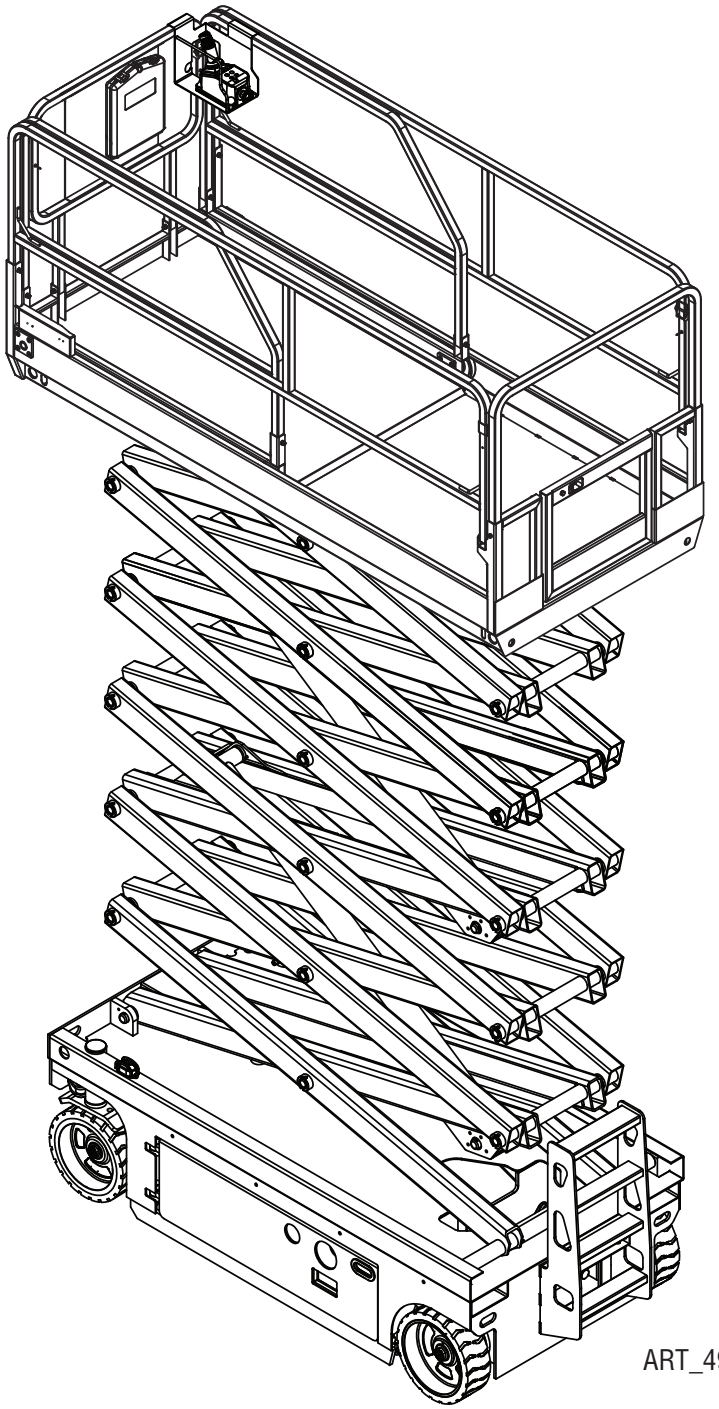
Service & Parts Manual

SE Series

1930SE
2632SE
3346SE
4046SE
4555SE



ART_4908

1930SE Serial Number Range 16400000 - 16402099
2632SE Serial Number Range 16500000 - 16500899
3346SE Serial Number Range 16600000 - 16600599
4046SE Serial Number Range 16700000 - 16701299
4555SE Serial Number Range 16800001 - 16801399

Part # 94124
March 2025

Revision History

Date	Reason for Update
March 2017	New Release
July 2019	4555 Serial Break Additions
November 2019	Added Hindley Platform Controls Added 4555SE Lower & Upper Lift Cylinder Serial Breaks to 4046SE/4555SE Scissor Assembly Updated Fault Code chart
February 2020	Updated all Platform Extension Assembly
March 2020	Updated Lower Lift Cylinder Assembly
May 20202	45555 Serial Break Additions
October 2023	41614 replaced with 42507
December 2024	Updated 6V and 12V battery diagram
March 2025	Minor corrections on page 51, page 53, and page 55.

MEC Aerial Work Platforms

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Table of Contents

Service Introduction

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

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

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

MEC Operator Policy

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

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

DANGER

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

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

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

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

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

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

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Safety Symbols & General Safety Tips

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

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

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

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

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

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

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

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

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

Specifications - 1930SE, 2632SE, 3346SE

		1930SE		2632SE		3346SE	
Working Height*		25 ft	7.8 m	32 ft	10 m	39 ft	12 m
Platform Height		19 ft	5.8 m	26 ft	8 m	33 ft	10 m
Maximum Drive Height		19 ft	5.8 m	26 ft	8 m	33 ft	10 m
Stowed Height	Top Guardrail	79.75 in	2.02 m	91 in	2.3 m	96.5 in	2.5 m
	Rails Folded	N/A		78 in	5 m	75 in	1.9 m
	Platform Floor	40.75 in	1.04 m	48 in	1.22 m	53 in	1.35 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)		3,120 lb	1,415 kg	4,796 lb	2,180 kg	5,566 lb	2,530 kg
Lift Capacity	Total	500 lb	227 kg	500 lb	227 kg	750 lb	340 kg
Sheet Material Rack Capacity†		110 lb†	50 kg†	110 lb†	50 kg†	250 lb†	113 kg†
Deck Extension Capacity		1 Person / 250 lb (113 kg)		1 Person / 250 lb (113 kg)		1 Person / 250 lb (113 kg)	
Maximum Occupants		2		2		2	
Length-Stowed (Overall)		74 in	1.86 m	97 in	2.46 m	97 in	2.46 m
Length-Stowed (Ladder Removed)		66 in	1.67 m	89.5 in	2.27 m	89.5 in	2.27 m
Platform Length (Extended)		100 in	2.54 m	124.5 in	3.16 m	124.5 in	3.16 m
Platform Length (Retracted)		65 in	1.65 m	89.5 in	2.27 m	89.5 in	2.27 m
Width (Overall)		30 in	76 cm	32 in	81 cm	47 in	1.19 m
Platform Width (Outside)		29 in	74 cm	32 in	81 cm	44 in	1.12 m
Wheel Base		54 in	1.36 m	74 in	1.87 m	74 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	4 in	10 cm
Ground Clearance - Elevated		.625 in	1.6 cm	0-.7 in	2 cm	0-.7 in	2 cm
Drive Speed (Proportional)	Stowed	0-2.8 mph	0-4.5 km/h	0-2.5 mph	0-4 km/h	0-2.5 mph	0-4 km/h
	Raised Or 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	160 psi	11.2 kg/cm^2
Maximum Wheel Load		1,450 lb	658 kg	2,122 lb	960 kg	2,508 lb	1,140 kg
Occupied Floor Pressure		263 psf	1,284 kg/m^2	268 psf	1,308 kg/m^2	224 psf	1,091 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		19 ft-lb / 25.5 Nm		19 ft-lb / 25.5 Nm	
Hydraulic Pressure		3,000 psi/ 207 bar		3,000 psi/ 207 bar		3,000 psi/ 207 bar	
Power System Voltage		24 Volt DC / 210Ah		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 6-Volt deep cycle 240 Ah	

Meets applicable requirements of ANSI A92.6-2006.
*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 - 4046SE, 4555SE

		4046SE		4555SE	
Working Height*		46 ft	14 m	51 ft	15.7 m
Platform Height		40 ft	12 m	45 ft	13.7 m
Maximum Drive Height		40 ft	12 m	45 ft	13.7 m
Stowed Height	Top Guardrail	102 in	2.6 m	102 in	2.6 m
	Rails Folded	79 in	2.0 m	79 in	2.0 m
	Platform Floor	58 in	1.48 m	58 in	1.48 m
Guardrail Height		43.5 in	1.11 m	43.5 in	1.11 m
Toeboard Height		6 in	15 cm	6 in	15 cm
Machine Weight** (Unloaded)		6,820 lb	3,100 kg	7,190 lb	3,260 kg
Lift Capacity	Total	550 lb	250 kg	500 lb	227 kg
Deck Extension Capacity		1 Person / 250lb (113 kg)		1 Person / 250lb (113 kg)	
Maximum Occupants		2		2	
Length-Stowed (Overall)		98 in	2.5 m	112 in	2.85 m
Length-Stowed (Ladder Removed)		89.5 in	2.27 m	104 in	2.65 m
Platform Length (Extended)		124.5 in	3.16 m	139 in	3.53 m
Platform Length (Retracted)		89.5 in	2.27 m	104 in	2.65 m
Width (Overall)		47 in	1.2 cm	55 in	1.4 cm
Platform Width (Outside)		44 in	1.12 cm	44 in	1.12 cm
Wheel Base		74 in	1.87 m	87 in	2.22 m
Turning Radius - Inside		0 in	0 cm	0 in	0 cm
Ground Clearance - Stowed		4 in	10 cm	4 in	10 cm
Ground Clearance - Elevated		0.7 in	2 cm	0.7 in	2 cm
Drive Speed (Proportional)	Stowed	0-2.5 mph	0-4 km/h	0-2.5 mph	0-4 km/h
	Raised Or Extended	0-0.5 mph	0-0.8 km/h	0-0.5 mph	0-0.8 km/h
Gradability		25%/14°		25%/14°	
Maximum Side Slope - Stowed		5°		5°	
Tilt Sensor Settings		2° side-to-side 3° fore-and-aft		2° side-to-side 3° fore-and-aft	
Ground Pressure/Wheel		167 psi	11.7 kg/cm^2	256 psi	18 kg/cm^2
Maximum Wheel Load		2,948 lb	1,340 kg	3,076 lb	1,395 kg
Occupied Floor Pressure		255 psf	1240 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)	
Tire Size		15 × 5 inch/381 × 127 mm		15 × 5 inch/381 × 127 mm	
Wheel Bolt Torque		19 ft-lb / 25.5 Nm		19 ft-lb / 25.5 Nm	
Hydraulic Pressure		3,000 psi/ 207 bar		3,000 psi/ 207 bar	
Power System Voltage		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	
	Output	24 Volt DC		24 Volt DC	
Batteries		Four 12-Volt deep cycle 300 Ah		Four 12-Volt deep cycle 300 Ah	

Meets applicable requirements of ANSI A92.6-2006.
*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.

Type: 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 Locks - 1930SE, 2632SE, 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 and 3346SE Machines:

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

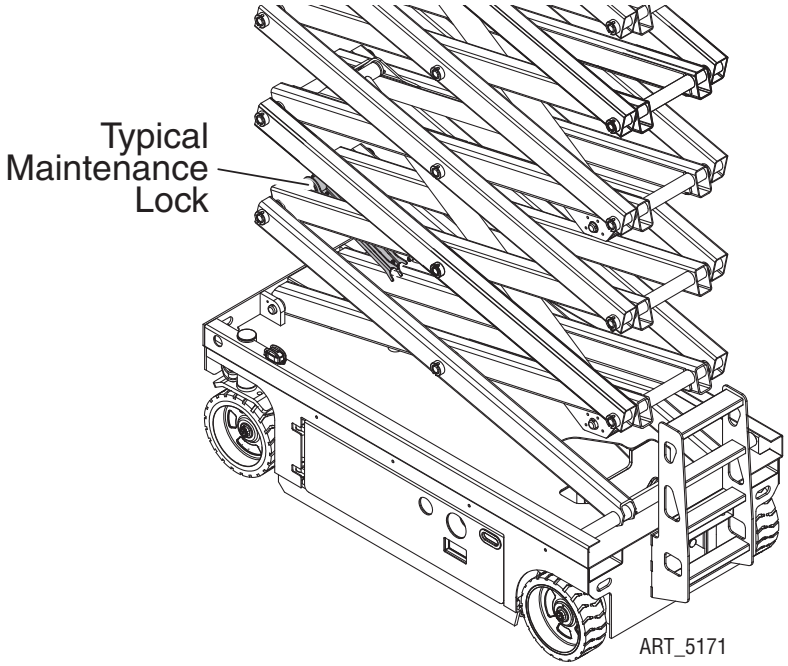
1. Raise the platform approximately just high enough to rotate the Maintenance Lock into place.
2. Lift the Maintenance Lock, move it to the center of the scissor arm, then rotate it up to a vertical position.

CAUTION

The Maintenance Lock must engage the scissor section above it.

DO NOT set it so that it hangs down.

3. 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!

WARNING

NEVER PERFORM WORK OR INSPECTION ON THE MACHINE WITH THE PLATFORM ELEVATED WITHOUT FIRST BLOCKING THE SCISSOR ASSEMBLY WITH THE MAINTENANCE LOCK. DO NOT ENGAGE THE MAINTENANCE LOCKS UNLESS THE PLATFORM IS EMPTY OF TOOLS AND MATERIAL.

BOTH MAINTENANCE LOCKS MUST BE SET TO SAFELY WORK ON OR INSPECT THE MACHINE.

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

The Maintenance Locks are located inside the scissor assembly.

Setting The Maintenance Locks

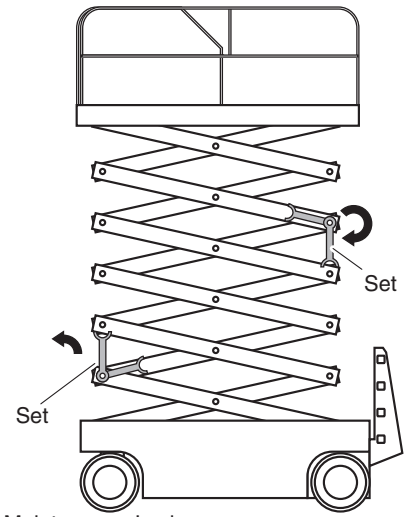
1. Raise the platform approximately 13 ft / 4 m from the ground, just high enough to rotate the Maintenance Locks into place.
2. Lift the ladder-end Maintenance Lock, move it to the center of the scissor arm, then rotate it down to a vertical position. Use the machine entry ladder to reach the rear Maintenance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

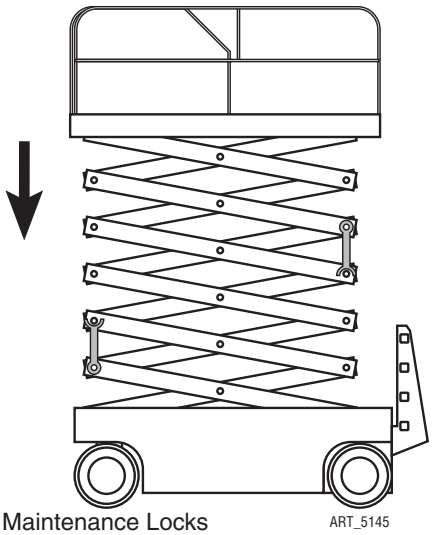
CAUTION

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

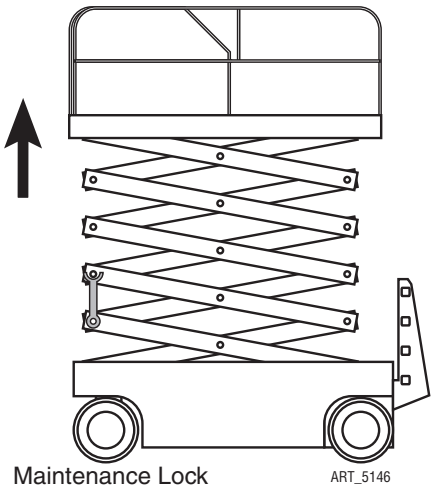
CAUTION

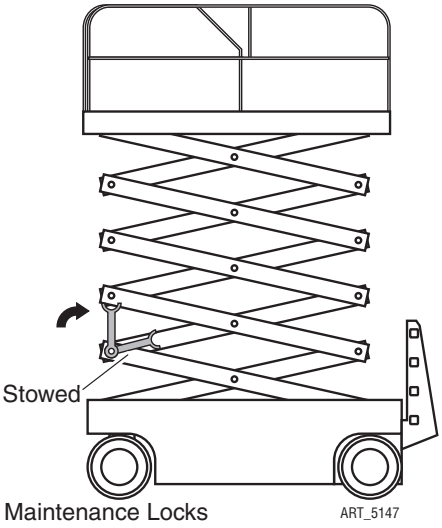
BOTH Maintenance Locks must be stowed before lowering the platform

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

1. Raise the platform approximately 1 ft / .3 m up 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.





Hydraulic System, Electrical System And Total System

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

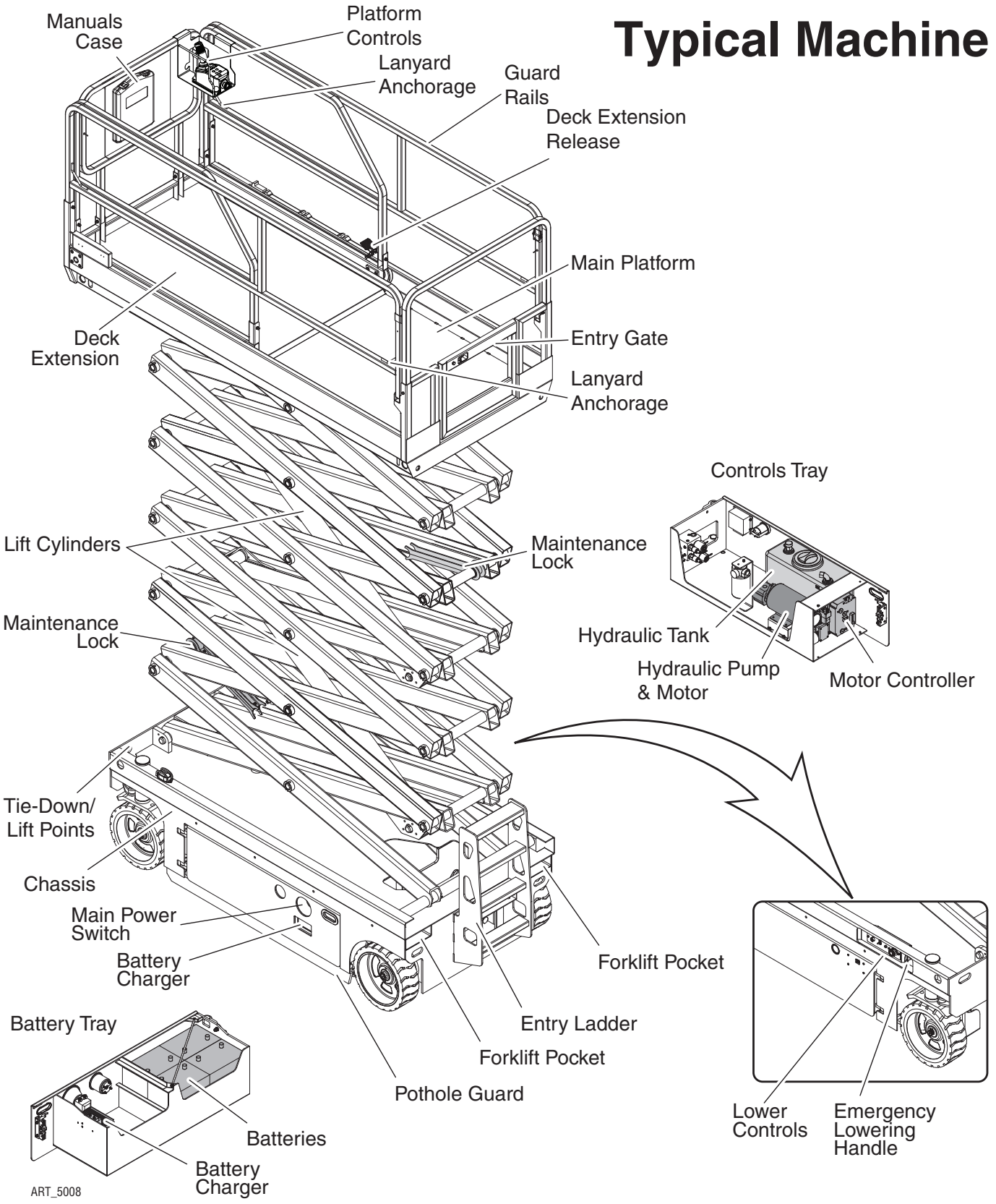
WARNING

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



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.

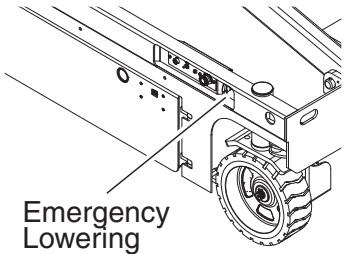
- Press the EMERGENCY STOP switch at any time to stop all machine functions.
- Turn switch clockwise to reset.
- Either switch will stop all machine functions.
- Both switches must be reset or machine will not operate.

ART_3353

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.



ART_5016

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:

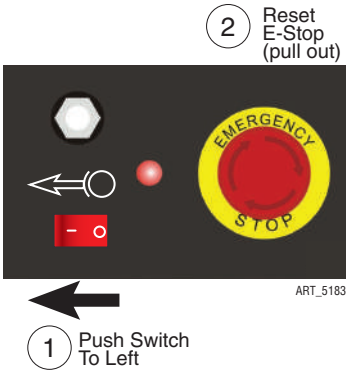
- 1930SE - 0.5 mph
- 2632SE, 3346SE, 4046SE, 4555SE - 2.5 MPH (4 km/h)

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

Disengage Brakes before Towing or Winching

1930SE

1. Chock the wheels.
2. At the Ground Controls panel, turn the Key Switch to the GROUND position.
3. At the Platform Controls, pull or turn the red Emergency Stop button clockwise to the on position.
4. At the Ground Controls panel, press the Emergency Stop button.
5. Push the Break Release Switch to the left and press the Lift Down toggle switch simultaneously while pulling or turning the red Emergency Stop button clockwise to the ON position at the ground controls. An alarm will sound and the horn will sound signalling that the brake has been released.

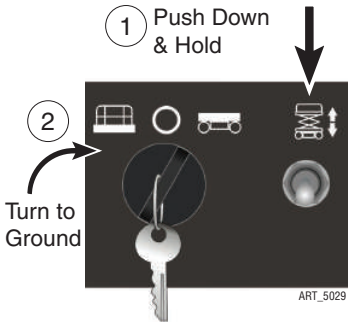


Resetting Brakes

- Press the Emergency Stop button, then push the Brake Release Switch to the right to reset the brake.

2632SE, 3346SE, 4046SE, 4555SE

1. Chock the wheels.
2. Turn the Key Switch to the OFF position.
3. Pull or turn the red Emergency Stop button clockwise to the on position at both the ground and platform controls.
4. At the Ground Controls panel, press and hold the Lift/Lower Switch to the DOWN position, then turn on the Key Switch to the GROUND position.
5. Hold the Lift/Lower Switch in this position until a continuous alarm sounds, signalling that the brake has been released.



Resetting Brakes

- Turn the Key Switch to the OFF position to reset the brake.

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.

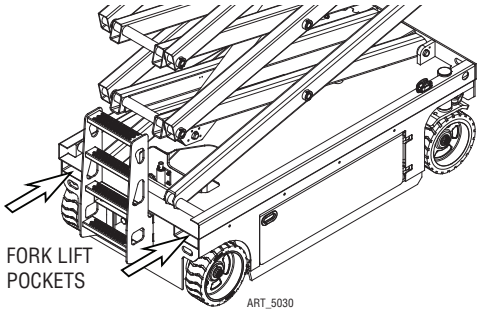
Before driving or winching the machine:
- Attach the machine to a winch.
- Remove all machine tie downs. Remove wheel chocks.

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.

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.

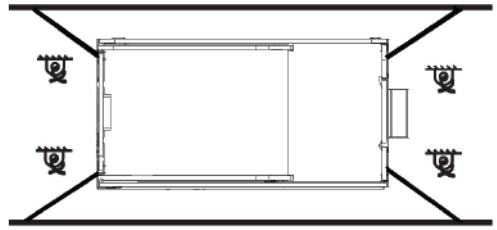


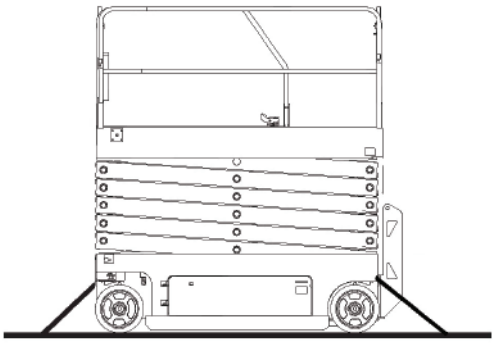
CAUTION

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

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.





ART_5031

Lifting Instructions

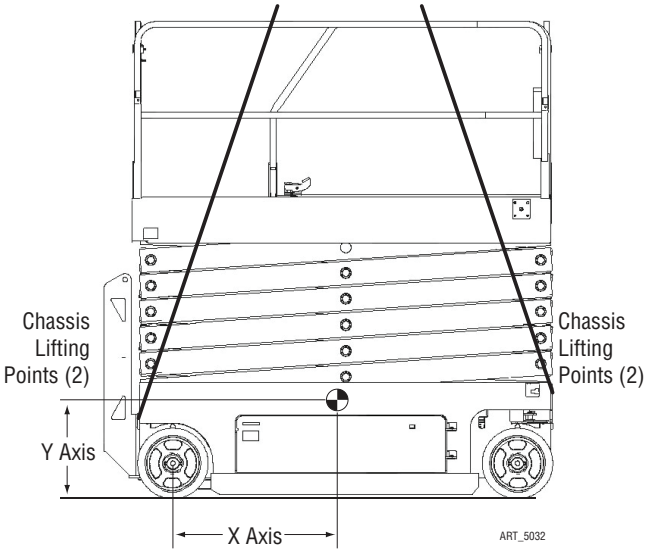
Only qualified riggers should rig and lift the machine.

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
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.

Machine Maintenance – General

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

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

DANGER

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

WARNING

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

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

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

CAUTION

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

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

Always clean the surrounding area before opening hydraulic systems.

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

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

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

Pre-Start Inspection Checklist

Items on this checklist should be inspected before each work shift. A copy of this checklist is available in the notes section of this manual. Photocopy the Pre-Start Inspection Checklist to keep record of this inspection.

30-Day Service

The 30 day maintenance procedure is a one-time procedure to be performed after the first 30 days or 40 hours of usage. These procedures are also performed at later intervals.

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 quickly.

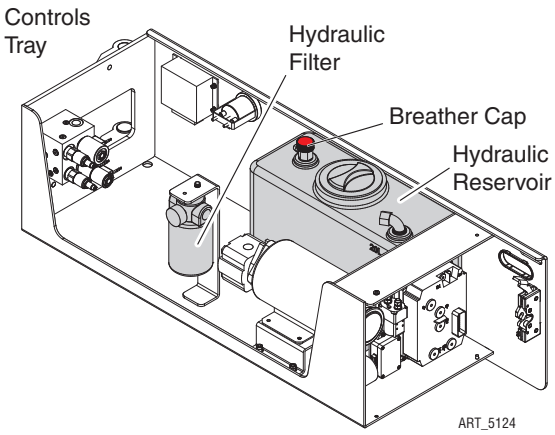
1. Check the tire surface and sidewalls for cuts, cracks and unusual wear.
2. Check each wheel for damage, bends and cracks.
3. Check each wheel bolt for proper torque (38 ft-lbs/51 Nm dry).

Hydraulic Filter & Breather Cap

Replace the Hydraulic Filter element after the first 30 days of machine use.

After that, replace the Breather Cap Filter and Hydraulic Filter every 6 months or 300 hours (whichever comes first).

If the machine is used in very dusty, exceptionally hot or exceptionally cold conditions, replace the Breather Cap Filter and Hydraulic Filter every 3 months or 150 hours (whichever comes first).



Frequent Inspection Checklist

WARNING

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

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

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

Steering Yokes

Regular application of lubrication to the steer yokes is essential to good machine performance and service life. Continued use of an insufficiently greased steer yoke will result in component damage.

1. Open the steer yoke cover.
2. Locate the grease fitting on the top of the steer yoke.
3. Pump multipurpose grease into the steer yoke until the steer yoke is full and grease is being forced past the bearings.
4. Install the cover.
5. Repeat this step for the other steer yoke.

Grease Specification

Chevron Ultra-duty grease, EP NLGI 1 (lithium based) or equivalent

Hydraulic Fluid

Inspect the condition of hydraulic fluid in the reservoir.

Oil should be a clear and amber in color.

Batteries

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

WARNING

ELECTROCUTION / BURN HAZARD. CONTACT WITH ELECTRICALLY CHARGED CIRCUITS COULD RESULT IN DEATH OR SERIOUS INJURY. REMOVE ALL RINGS, WATCHES, AND OTHER JEWELRY.

WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) - FACE SHIELD & GLOVES BEFORE SERVICING THE BATTERIES.

WARNING

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

MEC uses both 6-Volt and 12-Volt battery arrangements! It is important to identify which batteries are being used before connecting cables. Use the diagram to connect batteries depending on battery voltage. Incorrect battery connection may result in machine damage!

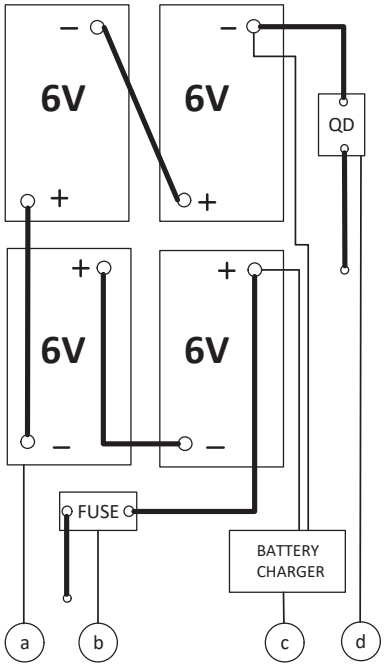
1. Put on protective clothing and eye wear.
2. Open the Battery Module.
3. Be sure that the battery cable connections are free of corrosion.

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

3. Be sure that the battery retainers and cable connections are tight.
4. For refillable batteries, remove the battery caps and inspect the fluid level. If plates show, add just enough fluid to cover the plates.
5. Replace cables that show damage, corrosion, or swelling.
6. Fully charge the batteries. It is best to allow the batteries to rest 24 hours to allow the battery cells to equalize.
7. Check each battery pack and verify that the batteries are wired correctly.
8. For refillable batteries, check the fluid level in each battery cell. Batteries are full when the fluid is just below the bottom of the well.
9. Inspect the battery charger plug and pigtail for damage or excessive insulation wear. Replace as required.
10. 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, consult the Troubleshooting section for charger flash code troubleshooting.

NOTE: For best results, use an extension cord of adequate size with a length no longer than 50 ft / 15m. If you have any further questions regarding the battery charger operation, please contact the MEC Technical Support.



a—Batteries
b—300A Fuse
c—battery Charger
d—Quick Disconnect

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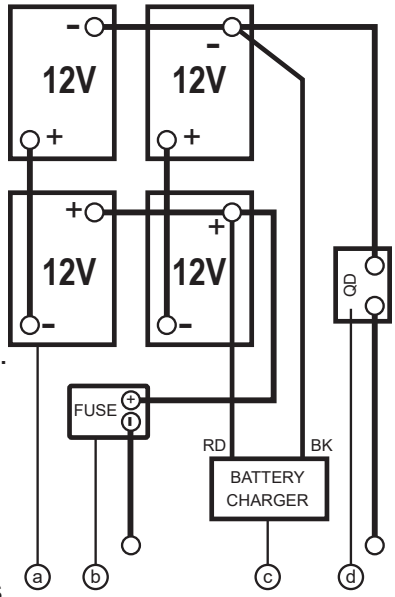

a -- Batteries
b -- 300A Fuse
c -- Battery Charger
d -- Quick Disconnect

ART_5120

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 following areas for burnt, chafed, corroded and loose wires:
   - Ground control panel
   - Control Module
   - Battery Module
   - Platform controls
   - Scissor control cable
2. Turn the key switch to ground control and turn the red Emergency Stop button clockwise to the on position at both the ground and platform controls
3. Set the Maintenance Locks (see the Introduction portion of this manual).

DEATH OR SERIOUS INJURY HAZARD!

WARNING

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

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4. Inspect the center chassis area and scissor arms for burnt, chafed and pinched cables.
5. Inspect the following areas for burnt, chafed, corroded, pinched and loose wires:
   - Scissor arms
   - ECU to platform controls
   - Power to platform wiring
6. Inspect for a liberal coating of dielectric grease in the following locations:
   - Between the ECU and platform controls
   - All wire harness connectors Level sensor
7. Raise the platform and return the Maintenance Locks to the stowed position (see the Introduction portion of this manual).
8. Lower the platform to the stowed position and turn the machine off.

Tires & Wheels

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

1. Check the tire surface and sidewalls for cuts, cracks and unusual wear.
2. Check each wheel for damage, bends and cracks.
3. Check each wheel bolt for proper torque
   - (38 ft-lbs/51 Nm dry) (1930SE)
   - (65 ft-lbs/88 Nm dry) (2632SE , 3346SE, 4046SE , 4555SE)

Emergency Stop

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

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

1. Turn the key switch to ground control and turn the red Emergency Stop button clockwise to the on position at both the ground and platform controls.
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 and turn the red Emergency Stop button clockwise to the on position at both the ground and platform controls.
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.

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. Turn the red Emergency Stop button clockwise to the on position at both the ground and platform controls.
2. Turn the key switch to platform control.
3. Check the 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 from either control station.

Horn

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

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

Drive Brakes

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

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

platform extension deck fully retracted and the platform in the stowed position.

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

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

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

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

Drive Speed - Stowed

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 and turn the red Emergency Stop button clockwise to the on position at both the ground and platform controls.
3. Lower the platform to the stowed position.
4. Press the drive function select button.
5. Choose a point on the machine; i.e., contact patch of a tire, as a visual reference for use when crossing the start and finish lines.
6. Bring the machine to top drive speed before reaching the start line. Begin timing when your reference point on the machine crosses the start line.
7. Continue at full speed and note the time when your reference point on the machine passes over the finish line. The time should be 10-14 seconds.

Drive Speed - Raised

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 and turn the red Emergency Stop button clockwise to the on position at both the ground and platform controls.
3. Press the lift function select button.
4. Press and hold the function enable switch on the joystick.
5. Raise the platform approximately 10 ft /3 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. The time should be 54-62 seconds.

Hydraulic Oil Analysis

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

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

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

Tank Venting System

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

1. Remove the breather cap from the hydraulic tank.
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.

Module Latch Components

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.

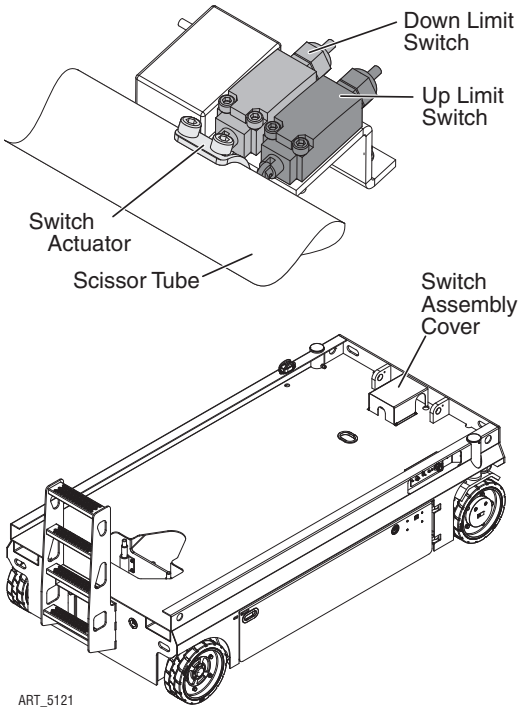
1. Inspect each module tray rotary latch and related components for wear and proper adjustment. Tighten any loose fasteners.

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.

Limit Switches

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.



Down Limit Switch

The Down Limit Switch alerts the system when the platform is elevated above 6.5 feet (2 m).

1. Remove the platform controls from the platform.
2. Set the Maintenance Locks (see the Introduction portion of this manual).

DEATH OR SERIOUS INJURY HAZARD!

WARNING

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

3. Turn the key switch to the off position.
4. Tag and disconnect the platform control box at the platform.
5. Follow the platform control cable down the scissor stack to the underside of the chassis deck. Tag and disconnect the platform cable from the ECU cable at the 6-pin connector under the chassis deck.
6. Securely install the platform control box harness plug into the 6-pin connector of the ECU cable.
7. Remove the Switch Assembly Cover.
8. Open the Down Limit Switch cover, tag and disconnect the wires of the Down Limit Switch wire harness.
9. Turn the key switch to platform control.
10. Raise the platform and return the Maintenance Locks to the stowed position.
11. Working at the platform controls, press the lift function select button. Lower the platform to the stowed position.
    - Result: The diagnostic display will show code 18, an alarm sounds and the lift function should not operate. The machine is functioning properly.
    - Result: The diagnostic display does not show code 18, the alarm does not sound and the lift function operates. Replace the Down Limit Switch.
12. Press the drive function select button. Attempt to drive the machine.
    - Result: The diagnostic display will show code 18, an alarm sounds, and the steer and drive functions should not operate. The machine is functioning properly.

- Result: The diagnostic display does not show code 18, the alarm does not sound, and the steer and drive functions operate. Replace the Down Limit Switch.

13. Press the lift function select button. Raise the platform approximately 12 in / 0.3 m.
    - Result: The diagnostic display will show code 18 and an alarm sounds. The machine is functioning properly.
    - Result: The diagnostic display does not show code 18 and the alarm does not sound. Replace the Down Limit Switch.
14. Raise the platform until the pothole guards are deployed.
    - Result: The diagnostic display does not show code 18 and the alarm does not sound. The machine is functioning properly.
    - Result: The diagnostic display shows code 18 and an alarm sounds. Replace the Down Limit Switch.
15. Set the Maintenance Locks (see the Introduction portion of this manual).

DEATH OR SERIOUS INJURY HAZARD!

WARNING

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

16. Turn the key switch to the off position.
17. Disconnect the platform controls from the ECU cable.
18. Securely install the connector of the ECU cable into the platform control cable.
19. Working at the platform, securely install the connector of the platform controls into the platform control cable.
20. Securely connect the two wires of the down limit switch to wire harness.
21. Close and install the switch cover.
22. Turn the key switch to platform control.
23. Raise the platform and return the Maintenance Locks to the stowed position.
24. Lower the platform to the stowed position.

Up Limit Switch

1. Set the Maintenance Locks (see the Introduction portion of this manual).

DEATH OR SERIOUS INJURY HAZARD!

WARNING

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

2. Open the limit switch house cover from the chassis.
3. While raising the platform from the ground controls, push in the roller of the up limit switch to activate the limit switch.
   - Result: The platform stops raising. The machine is functioning properly.
   - Result: The platform continues to raise. Inspect or replace the Up Limit Switch.
4. Install the limit switch house cover to chassis.

5. Raise the platform and return the Maintenance Locks to the stowed position.
6. Lower the platform to the stowed position.

Level Sensor

1. Move the machine onto a grade which exceeds the rating of the level sensor. Refer to the Machine Specifications in the Introduction portion of this manual.
2. Press the lift function select button. Standing on the up-hill side of the machine, attempt to raise the platform to approximately 6.6 ft / 2 m.
   - Result: The alarm sounds, and the machine stops lifting after the pothole guards are deployed. The machine is functioning properly.
   - Result: 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.
3. Press the drive function select button. Standing on the up-hill side of the machine, attempt to steer and drive the machine.
   - Result: The alarm sounds and the machine stops moving. The machine is functioning properly.
   - Result: The alarm does not sound. Adjust or replace the Level Sensor.
4. Lower the platform to the stowed position.

Pothole Limit Switches

1. Move the machine onto a firm, level surface. Place a wooden block approximately 2 in / 5 cm tall under the right pothole guard.
2. Press the lift function select button. Attempt to raise the platform approximately 6.6 ft /2 m.
   - Result: The pothole guard contacts the block and does not fully deploy, the diagnostic display shows code 18, an alarm sounds and the platform will lift to 6.6 ft / 2m or beyond. The machine is functioning properly.
   - Result: The pothole guard contacts the block and does not fully deploy, the diagnostic display 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.
3. Press the drive function select button. Attempt to steer or drive the machine.
   - Result: The diagnostic display shows code 18, an alarm sounds, and the machine will not steer or drive. The machine is functioning properly.
   - Result: The diagnostic display does not show code 18, the alarm does not sound and the steer and drive functions operate. Adjust or replace the down limit switch.
4. Lower the platform to the stowed position and remove the block under the right pothole guard.
5. Repeat this procedure beginning with step 5 for the left pothole guard.
6. Lower the platform to the stowed position, remove the block under the left pothole guard. Turn off the machine.

Annual Inspection Checklist

WARNING

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

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

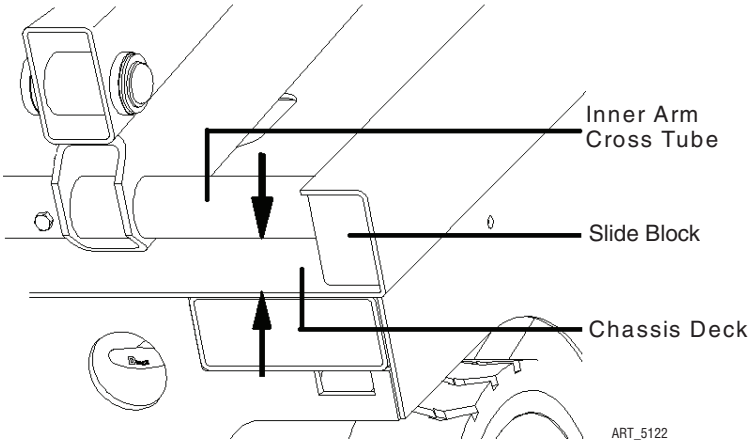
Perform all checks listed on Pre-Start Inspection and the Frequent Inspection, then check all items listed on the Annual Inspection Report. See specific instructions below.

Scissor Slide Blocks

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

Perform this procedure with the platform in the stowed position.

1. Measure the distance between the number one inner arm cross tube and the chassis deck at the ground controls side of the non-steer end of the machine.
   - Result: The measurement is 1.34 in / 34 mm or more. Proceed to step 2.
   - Result: The measurement is less than 1.34 in / 34 mm. Replace both slide blocks.
2. Measure the distance between the number one inner arm cross tube and the chassis deck at the battery module side of the non-steer end of the machine.
   - 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 slide blocks.
3. Apply a thin layer of dry film lubricant to the area of the chassis where the scissor arm wear pads make contact.



Hydraulic Tank Breather Cap

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

can enter the hydraulic system which may cause component damage. Extremely dirty conditions may require that the cap be inspected more often.

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

Hydraulic Oil Inspection/replacement

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

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

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

Use only Mobile Fluid DTE 10, DTE 13 M, or AW32. Do not substitute other fluids as pump damage may result.

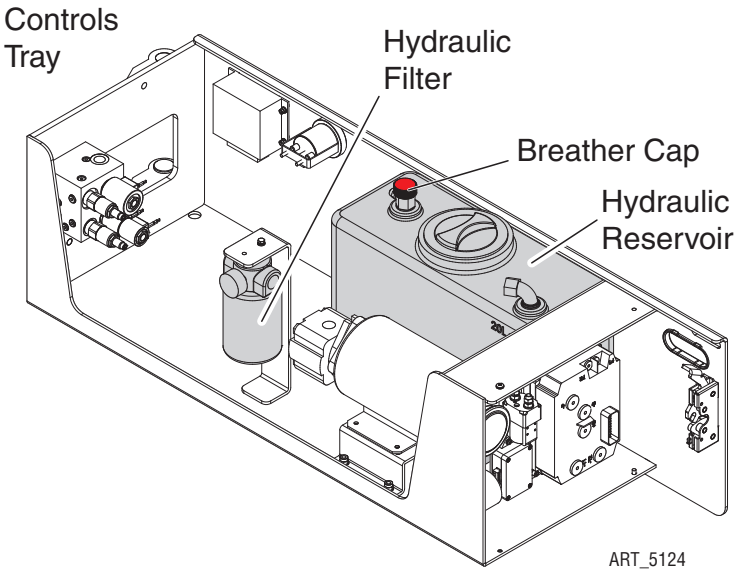
1930SE

Fill the reservoir with oil to 1.75 gallons / 6.6 liters with platform in the stowed position.

2632SE / 3346SE / 4046SE 4555SE

Fill the reservoir with oil to 4.25 gallons / 16 liters with platform in the stowed position

Properly dispose of all waste fluids, materials and used parts in accordance with national regulations.



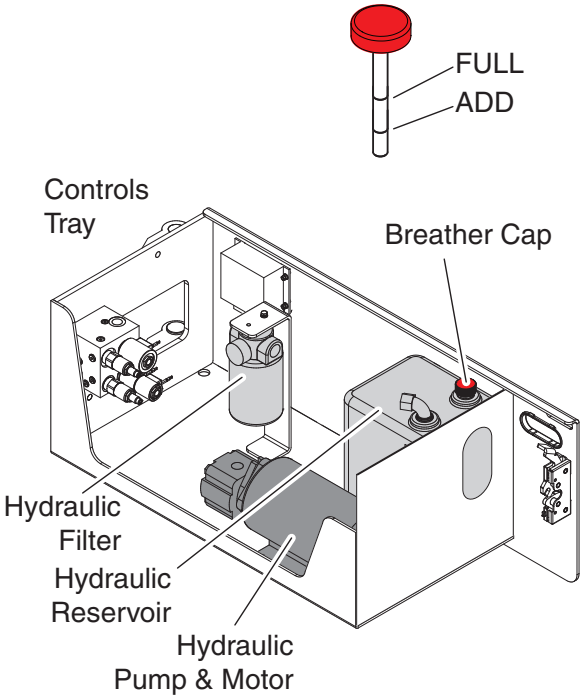
CAUTION

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.

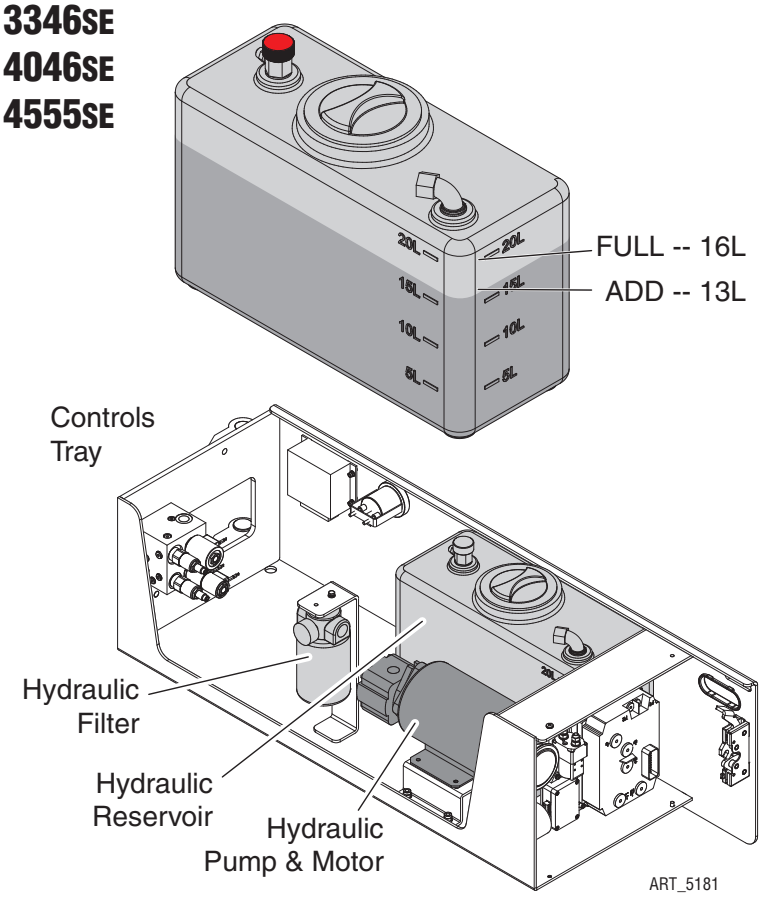
Lubrication

Operator may perform routine maintenance only. Lubrication listed as Scheduled Maintenance must be performed by a qualified service technician.

1930SE

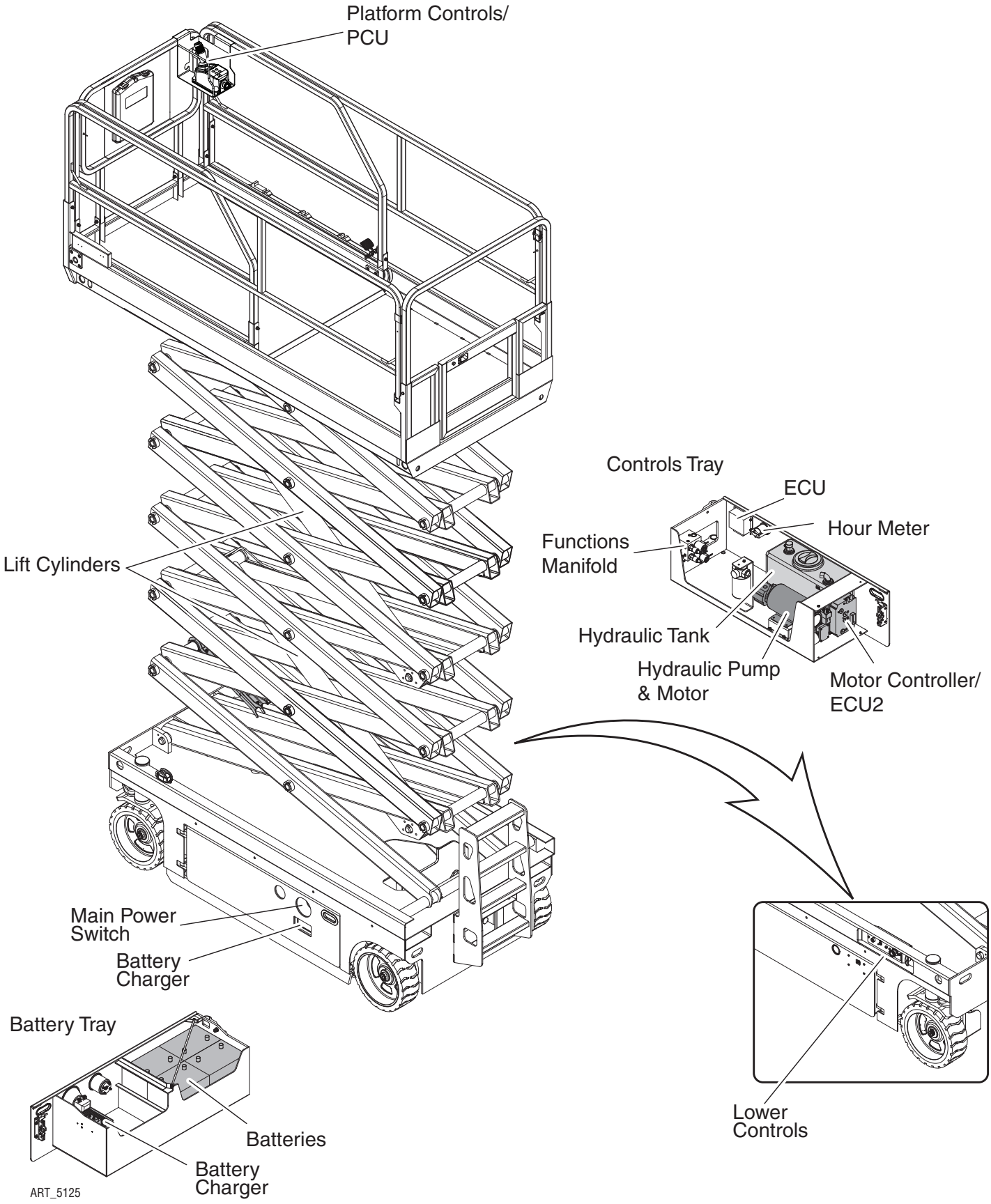


2632SE
3346SE
4046SE
4555SE



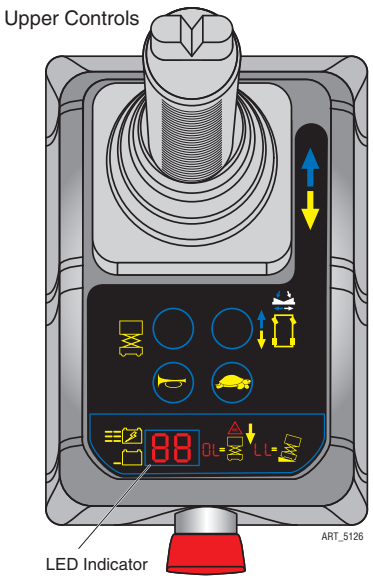
No.	Item	Specification	Frequency
1	Hydraulic Reservoir	Mobile Fluid DTE 10, DTE 13 M, or AW32 **Do not substitute other fluids as pump damage may result.** Check as shown above with platform in the stowed position. Fill as needed.	**Routine Maintenance** Check hydraulic oil level every week **Scheduled Maintenance** Change yearly or every 600 hours, whichever occurs first
2	Hydraulic Cap Breather Filter And Hydraulic Filter	Breather Filter (located inside Filler Cap) Hydraulic Filter Canister	**Scheduled Maintenance** **Normal Conditions** Change every six months or 300 hours, whichever occurs first **Severe Conditions - very dusty, exceptionally hot or exceptionally cold conditions** Change every three months or 150 hours, whichever occurs first

Control Component Locations



Fault Codes

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



Fault	Description	Models	Solutions
01/10	System Initialization Fault	All Models	Check the ECU.
02/20	System Communication Fault	All Models	Check the platform control, wiring on platform connector, ECU, battery, and relay on ground control.
03	Invalid Option Setting	All Models	Reset the option code. See Service manual for instructions.
12	Chassis Up or Down Switch ON at power-up Fault	All Models	Check the wiring on toggle switch, and the toggle switch.
18	Pothole Guard Fault	All Models	Check the pothole board and switches. If stowed, check limit switch.
31	Pressure Sensor Fault	Micro 19	Check option code. See Service manual for instructions.
32	Angle Sensor Fault	All Models > 2020 With Overload	Check wiring to angle sensor for normal voltage range < 2020, 1.9-3.8V, then check the option code.
42	Left turn switch ON at power-up	All Models	Check the left steer button, and the platform controller.
43	Right Turn Switch ON at power-up	All Models	Check the right steer button, and the platform controller.
46	Joystick Enable Switch ON at power-up	All Models	Wait several seconds when turning on the lift, then check the joystick dead-man switch.
47	Joystick not in neutral at power-up	All Models	Check the joystick, and the platform controller.
52	Drive Forward Coil Fault	All Models	Check the option code. See Service manual for instructions.
53	Drive Reverse Coil Fault	All Models	Check the option code. See Service manual for instructions.
54	Lift Up Coil Fault	All Models	Check the lift solenoid and wiring.
55	Lift Down Coil fault	All Models	Check the down solenoid and wiring, and the scissor harness for crushed or pinched wires.

56	Right Turn Coil Fault	All Models	Check the right steering solenoid and wiring.
57	Left Turn Coil Fault	All Models	Check the left steering solenoid and wiring.
58	General Brake Coil Fault - Brakes about 46 ohms	All Models	Check the brake module and wiring, brakes and wiring, and the battery voltage.
60	Motor Controller Fault	All Models	Replace the motor controller.
61	Motor Controller Sensor Fault	All Models	Check the drive motor and wiring, and the drive motor controller and wiring.
62	Motor Controller Hardware Failsafe Fault	All Models	Cycle power, then replace the Motor Controller.
63	Motor Controller Output Fault	All Models	Check the drive motor and wiring for shorts, and the drive motor controller and wiring.
64	Motor Controller SRO Fault	All Models	Replace motor controller
65	Motor Controller Throttle Fault	All Models	Replace motor controller
66	Motor Controller Emergency Reverse Fault	All Models	Replace motor controller
67	Motor Controller HPD Fault	All Models	Replace motor controller, check contactor, replace ECU.
68	Low Voltage Fault	All Models	Check battery voltage and charge batteries if necessary, check battery connections, connection from ECU to PCU, then the voltage to the ECU and PCU.
69	High Neutral Current Fault	All Models	Motor seized - This message comes just before other faults but should be ignored in those cases.
70	Steer Input Out of Range	All Models	Check for loose wires on motor controller, replace motor controller.
71	Motor Controller Main Contactor Fault	All Models	Check wiring to contactor, white and black wire could be off, check drive motor and wiring, and motor controller and wiring. Replace contractor.
72	Motor Controller Over Voltage Fault	All Models	Check battery voltage with battery charger off, cycle power to machine, replace motor controller.
73	Motor Controller Thermal Cutback Fault	All Models	Drive/Lift Motor may be overheating so let motor cool down, cycle power to reset Motor controller, replace motor controller.
74	Motor Controller Motor Fault	All Models	Check connections at motors “motor open”, cycle power to the lift, and replace motor controller.
75	Motor Controller Pump Motor Fault	All Models	Check connections to the Pump Motor, cycle power to the lift, and replace motor controller.
76	Motor Controller Left Drive Motor Fault	All Models	Check connections to the motors, cycle power to the lift, and replace motor controller.
77	Motor Controller Right Drive Motor Fault	All Models	Check connections to the motors, cycle power to the lift, and replace motor controller.
78	Pump Motor Short Fault: 0.8-1.4 ohms	All Models	Check connections to the pump motor, cycle power to the lift, and replace motor controller.
79	Left Drive Motor Short Fault	1930SE Only	Check the left drive motor and wiring, and the ZAPI drive controller and wiring.
	(Should be 0.5-2.0 ohms)	Micro 19	Swap wires on drive motors: if code changes it’s in wiring or motor and if code doesn’t change it’s in motor controller.
80	Over 80% Load Warning	All Models	Platform is getting close to limit of weight. > 2020 with overload

81	Right Drive Motor Short	1930SE/Micro	Check the right drive motor and wiring, and motor controller and wiring.
82	Right Brake Coil - Brakes about 46 ohms	1930SE/Micro	Check battery voltage, contactor, wiring to brakes, wiring to drive motors, motor controller and wiring.
		All Models	Check battery voltage, right motor brake and wiring, brake module and wiring, and contactor.
83	Left Brake Coil - Brakes about 46 ohms	1930SE/Micro	Check battery voltage, contactor, wiring on brakes, wiring to drive motors, motor controller and wiring.
		All Models	Check battery voltage, left motor brake and wiring, brake module and wiring, and contactor.
85	Brake Release Switch Closed	1930SE/Micro	Turn brake release switch off. Replace brake release switch.
86	Raised Brake Release Fault	1930SE Only	Brake release switch engaged.
87	Brake Release Switch Fault	1930SE Only	Brake release switch open.
89	Drive Motor Field Open	All Models	Check wiring on motors and motor controller.
91	Left Drive Motor Short	All Models	Check wiring to motor and motor controller.
92	Right Drive Motor Short	All Models	Check wiring to motor and motor controller.
99	Over 99% Load Warning	All Models	Platform has reached its weight capacity.
OL	Platform Overloaded	All Models	Remove the excess load immediately. > 2020 with overload.
LL	Machine Tilted Beyond Safe Limits Fault	All Models	Check to see if machine is tilted, then check wiring to tilt sensor and the tilt sensor.
CH	NOT A FAULT CODE	All Models	Indicates that key switch is in base controls.

Parameter Adjustment

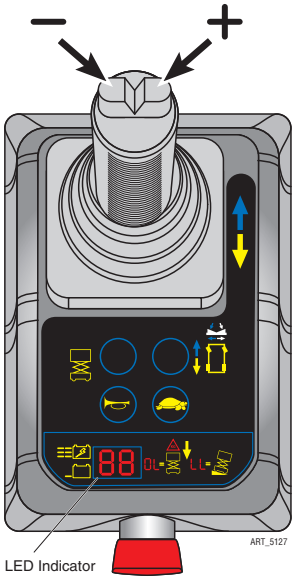
WARNING

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

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

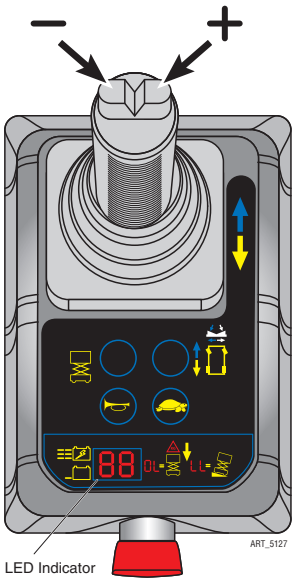
Change the setting by using the Steer Buttons on top of the control handle. The right button increases the setting. The left button decreases the setting.

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



Speed Adjustment State

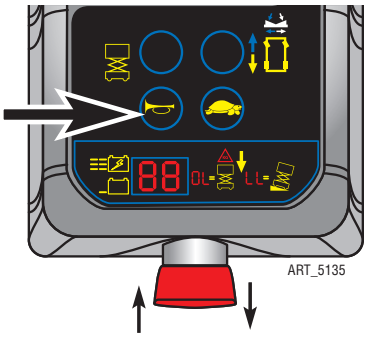
1. Set the keyswitch at the Base Controls to PLATFORM. Twist the Base Emergency Stop Switch out to the ON position.
2. Push the Platform Controls Emergency Stop Button in to the OFF Position.
3. Press and hold the HORN and LIFT buttons, then twist the Platform Emergency Stop Switch to the ON position.



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

Refer to the following pages for individual operating adjustments.

Saving New Values

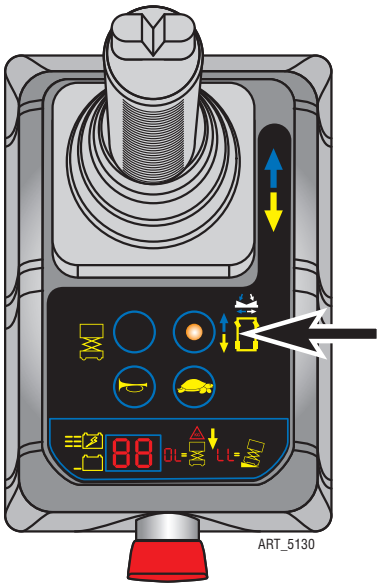


New values must be saved immediately after adjustment.

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

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

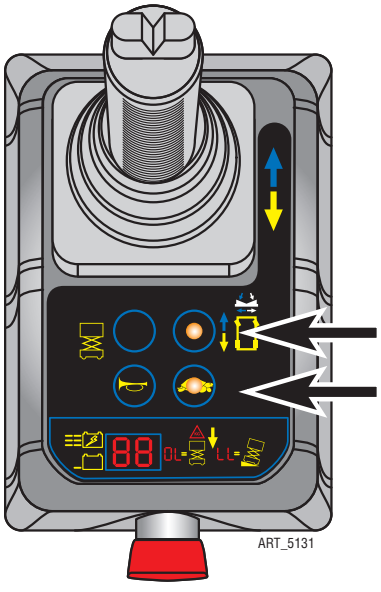
High Drive Speed



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

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

Low Speed Drive



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

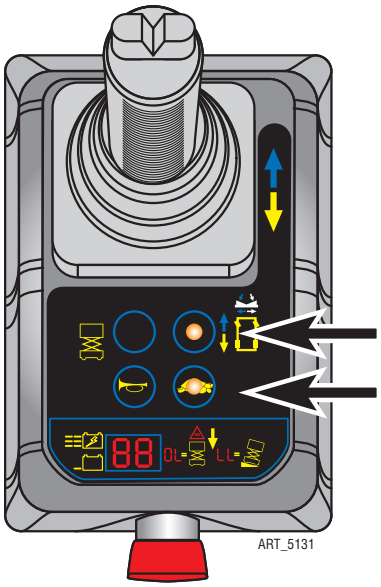
1. Press the Drive Mode Select button. The button will light up, indicating this mode is active.
2. Press and hold the Low Speed Mode Select button (turtle icon). The button will light up, and the LED Indicator will show the present setting.
3. Adjust the speed using the steer left and steer right buttons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

DANGER **DO NOT ADJUST THE SETTING HIGHER THAN 50.**

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

Elevated Drive Speed

This parameter controls drive speed when the platform is elevated.



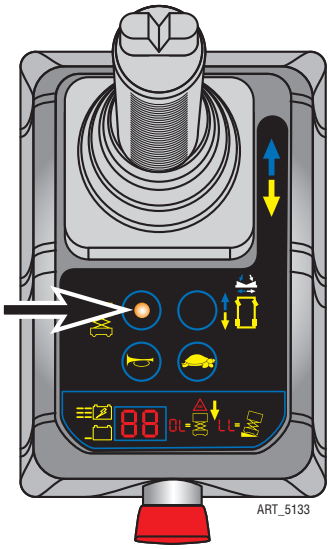
1. Press the Drive Mode Select button. The button will light up, indicating this mode is active.
2. Press and hold the Low Speed Mode Select button (turtle icon). The button will light up, indicating this mode is active.
3. Adjust the speed using the steer left and steer right buttons on top of the Control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

DANGER **DO NOT ADJUST THE SETTING HIGHER THAN 50.**

5. Save the new setting (See page 38 for “Saving New Values“).

Lift Speed

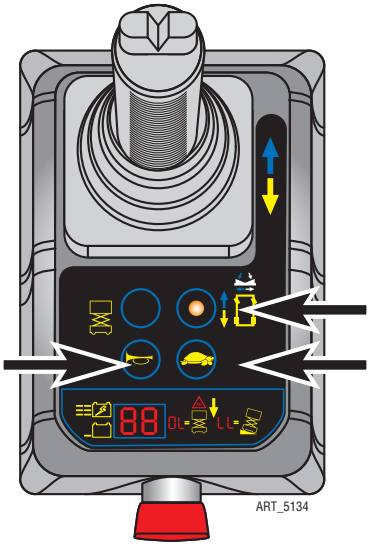
This parameter controls the speed at which the platform elevates.



1. Press the Lift Mode Select button. The button will light up, indicating this mode is active.
2. Adjust the speed using the steer left and steer right buttons on top of the Control Handle.
3. Elevated Drive Speed can be set from 00 to 9°9. Factory setting is 9°9.
4. Save the new setting (See page 38 for “Saving New Values“).

Steering Speed

This parameter controls speed at which the steering wheels turn.



1. Press the Drive Mode Select button. The button will light up, indicating this mode is active.
2. Press and hold the Horn button and the Low Speed Mode Select button (turtle icon).
3. Adjust the speed using the steer left and steer right buttons on top of the Control Handle.
4. Steering Speed can be set from 00 to 9°9. Factory setting is 30.
5. Save the new setting (See page 38 for “Saving New Values“).

Hydraulic Schematic - 1930SE

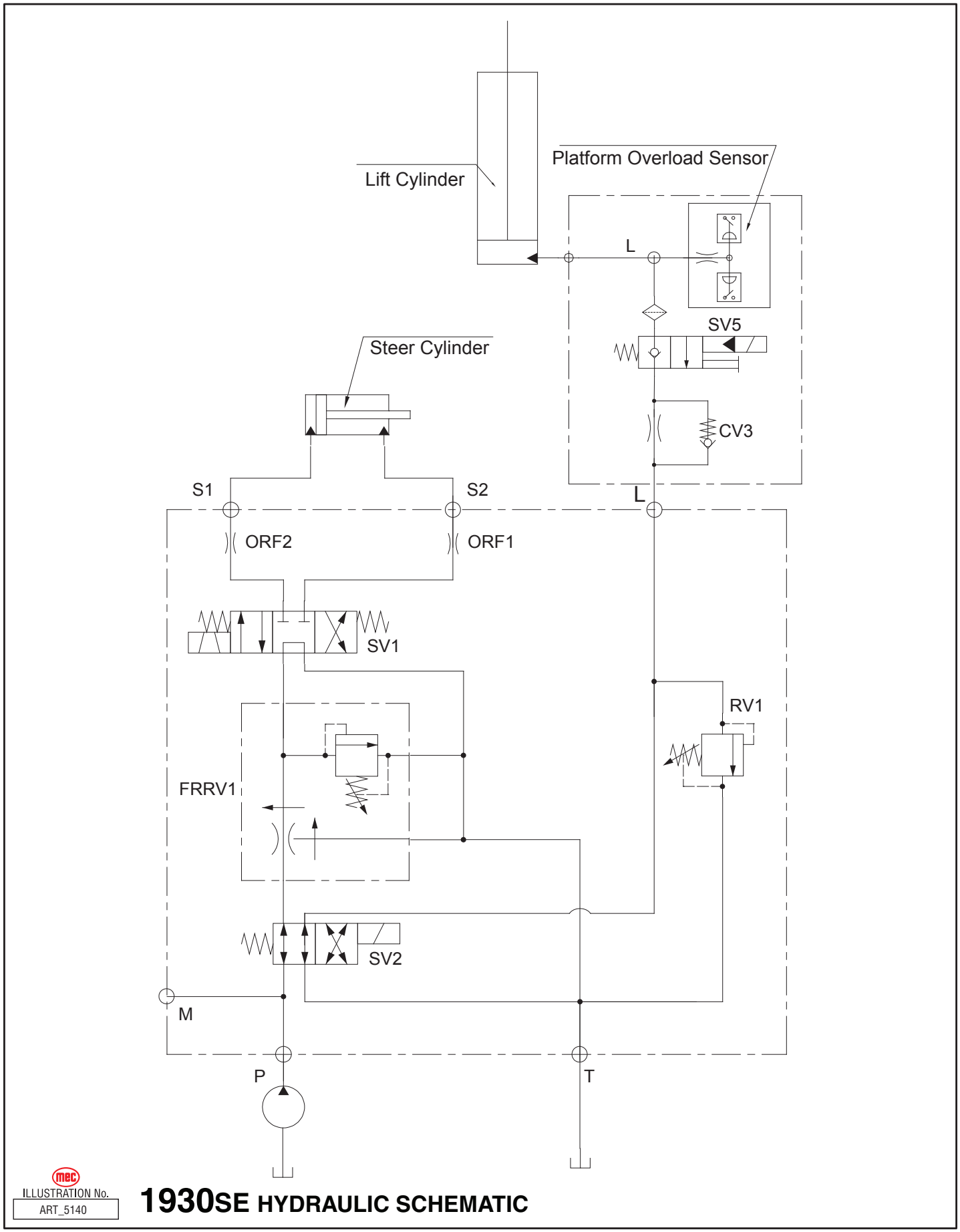
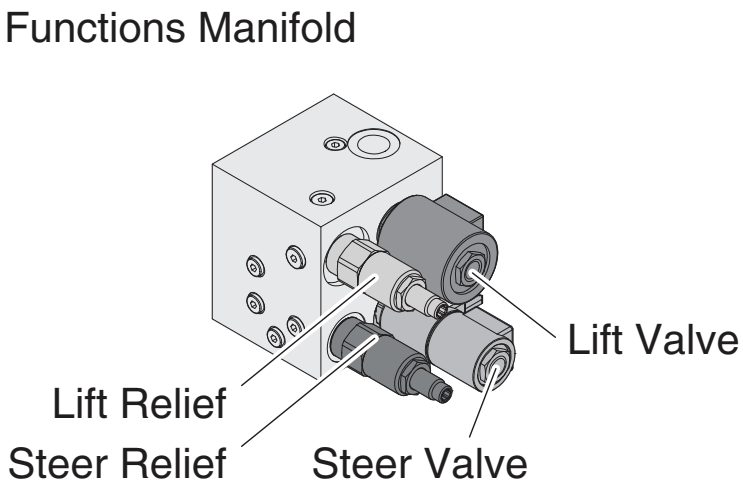


ILLUSTRATION No.
ART_5140

1930SE HYDRAULIC SCHEMATIC

Hydraulic Components - 1930SE



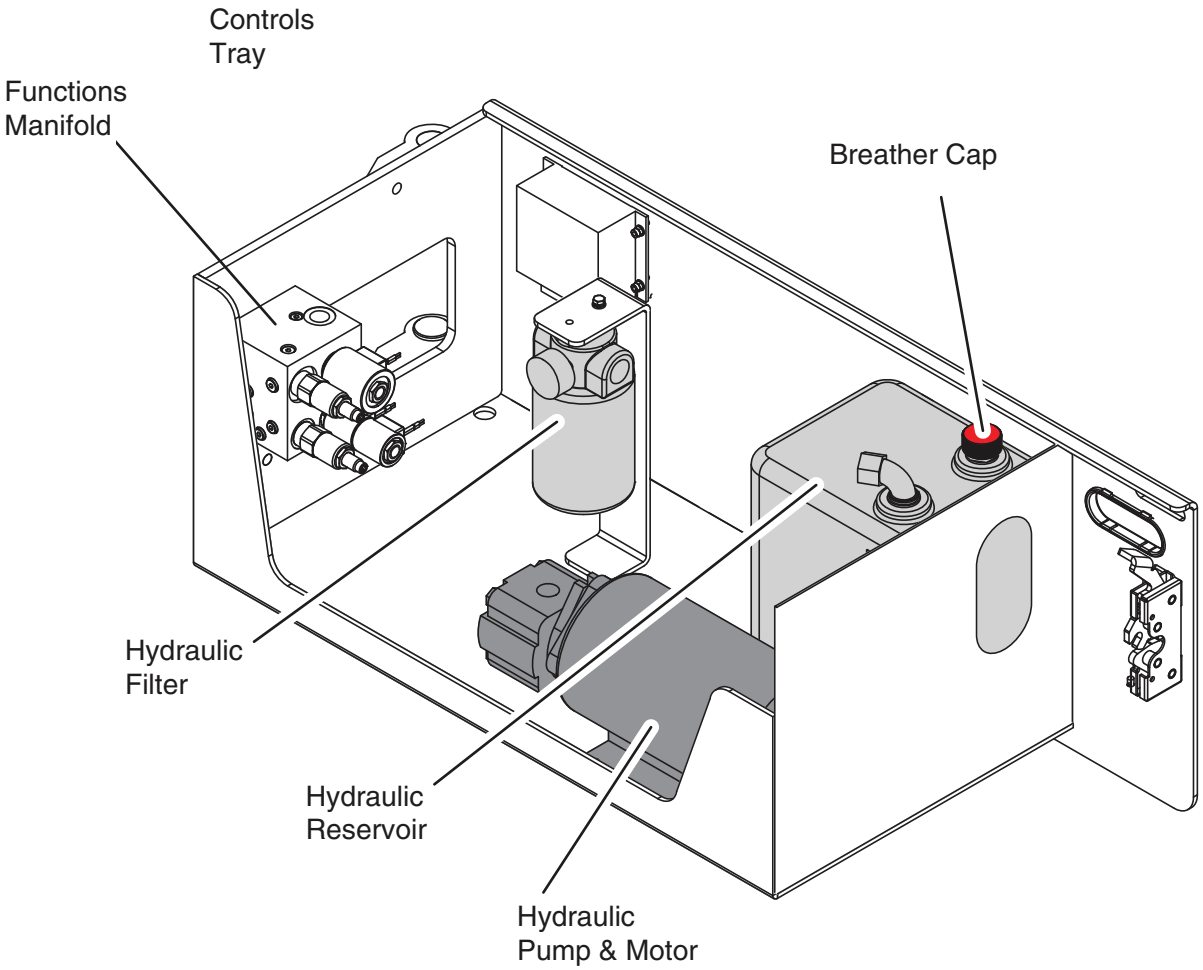


ILLUSTRATION No. ART_5136

1930SE HYDRAULIC COMPONENTS

Hydraulic Schematic - 2632SE, 3346SE, 4046SE, 4555SE

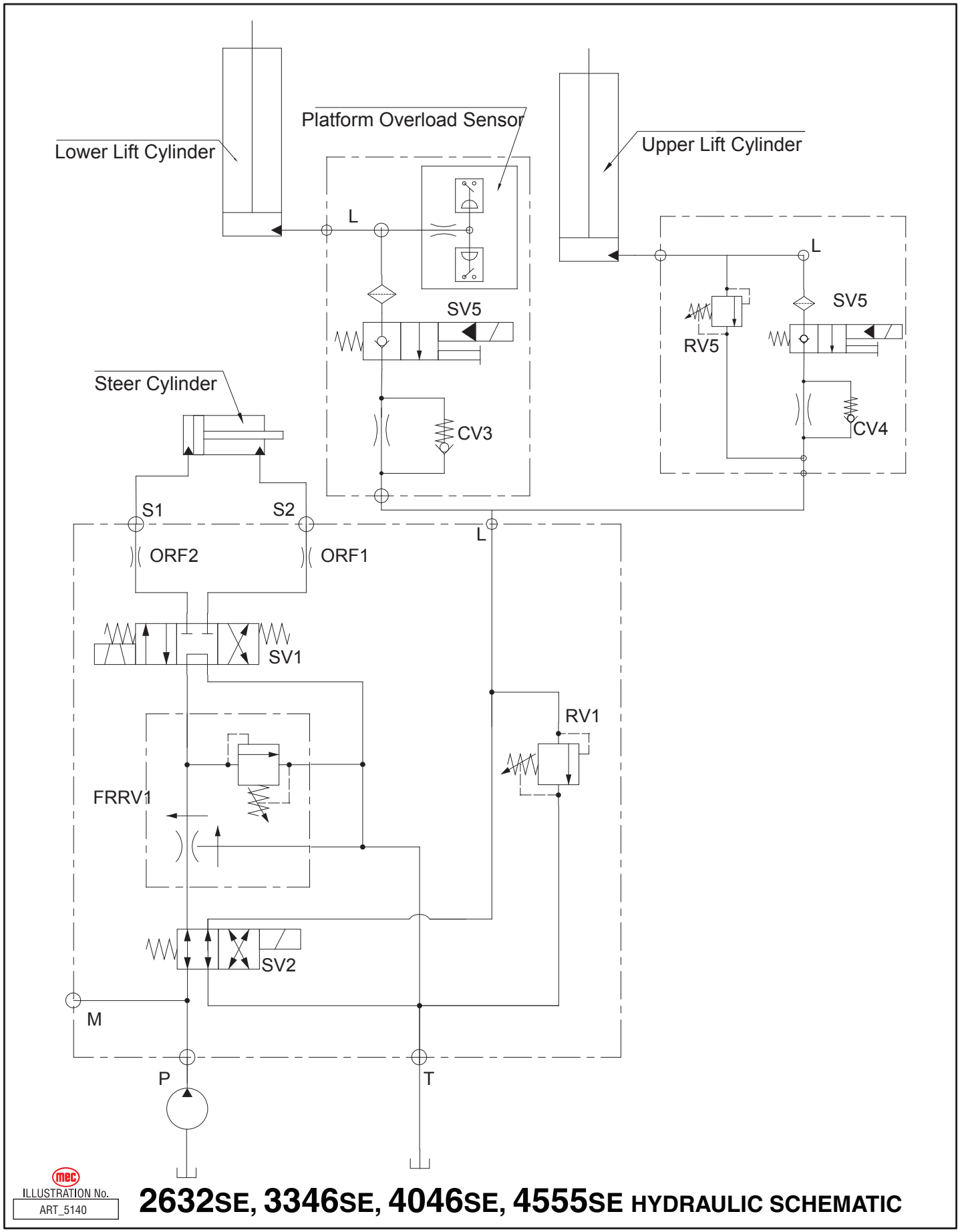


ILLUSTRATION No. ART_5140

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

Hydraulic Components - 2632SE, 3346SE, 4046SE, 4555SE

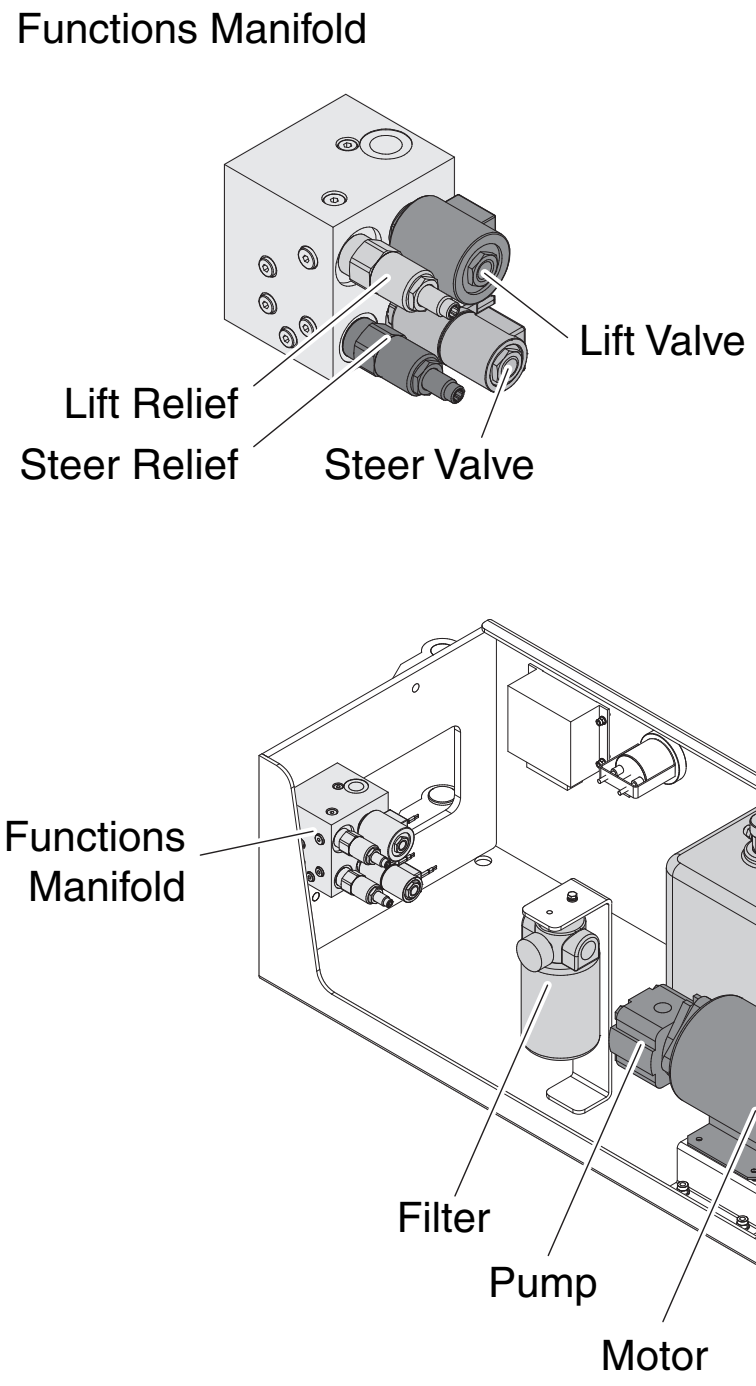


ILLUSTRATION No. ART_5136

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

Function Valves

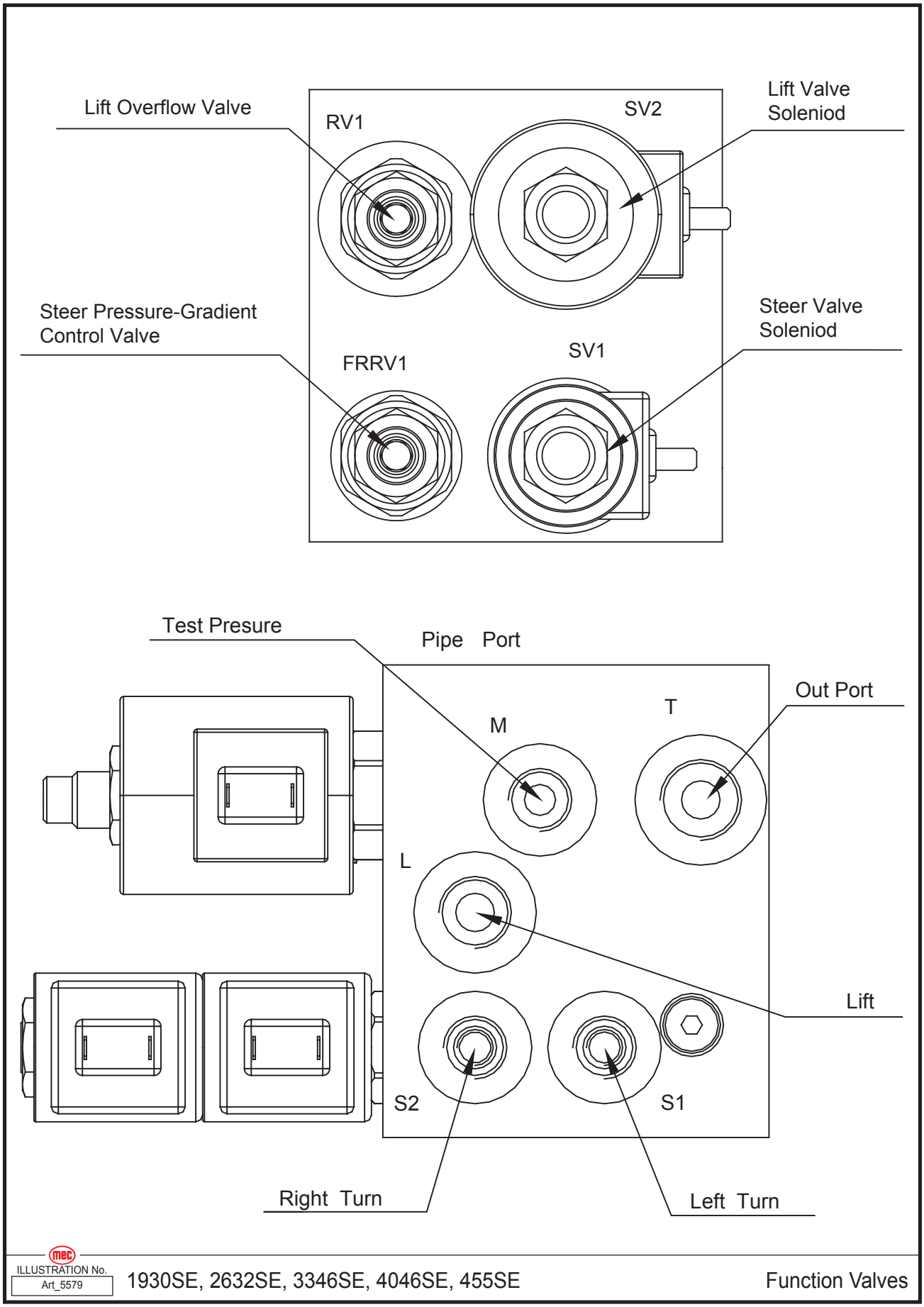
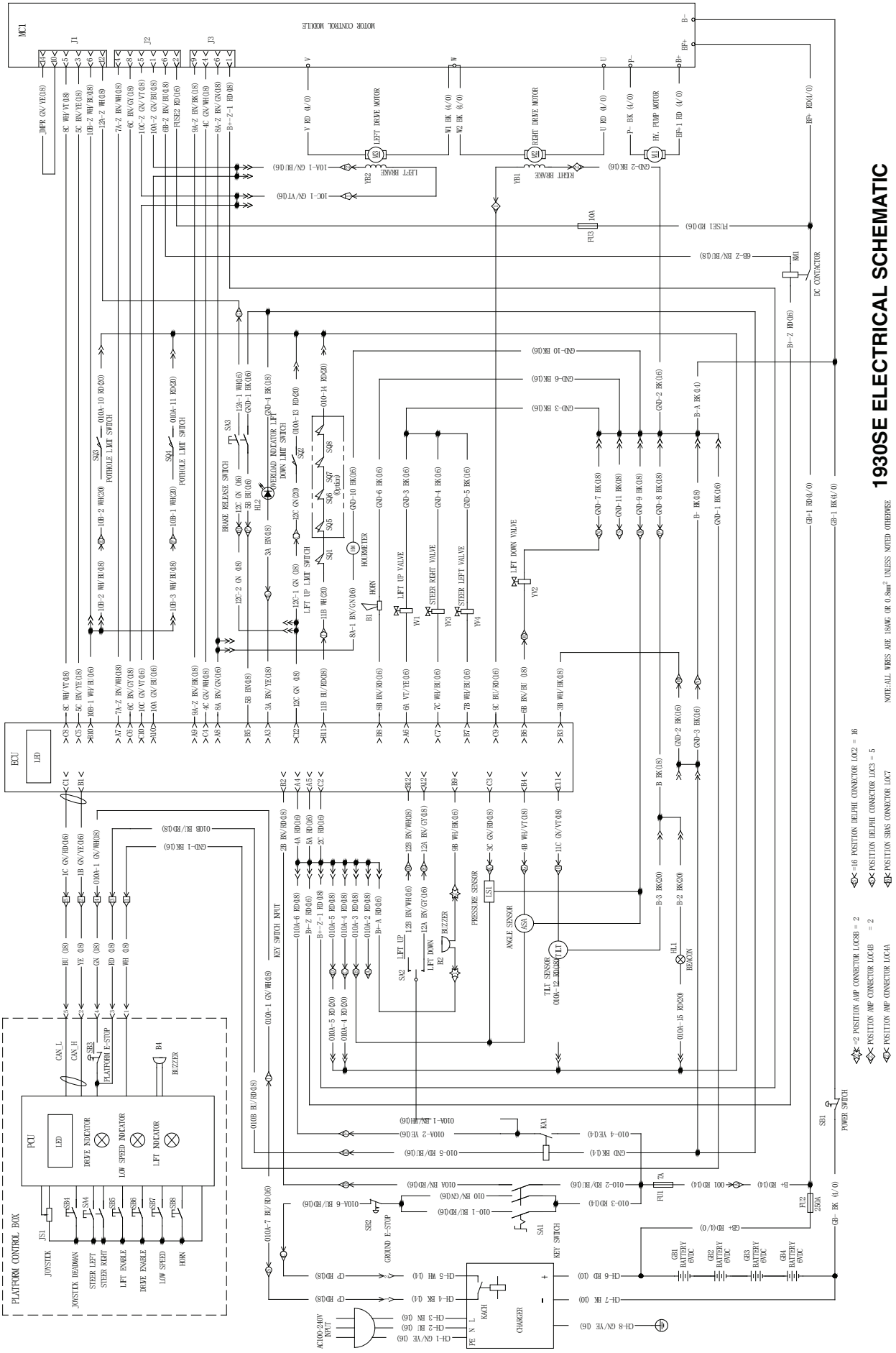


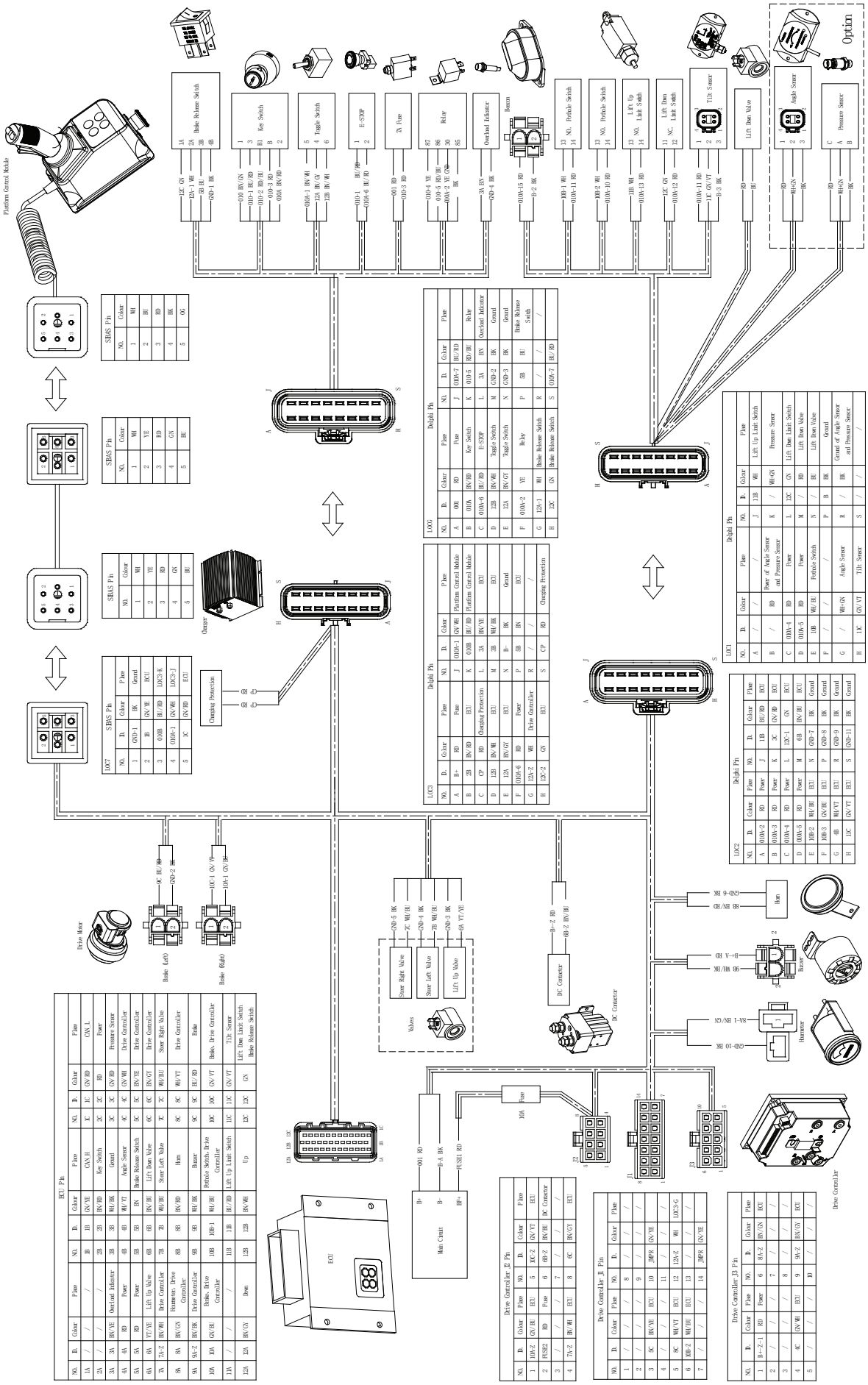
ILLUSTRATION No. Art_5579

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

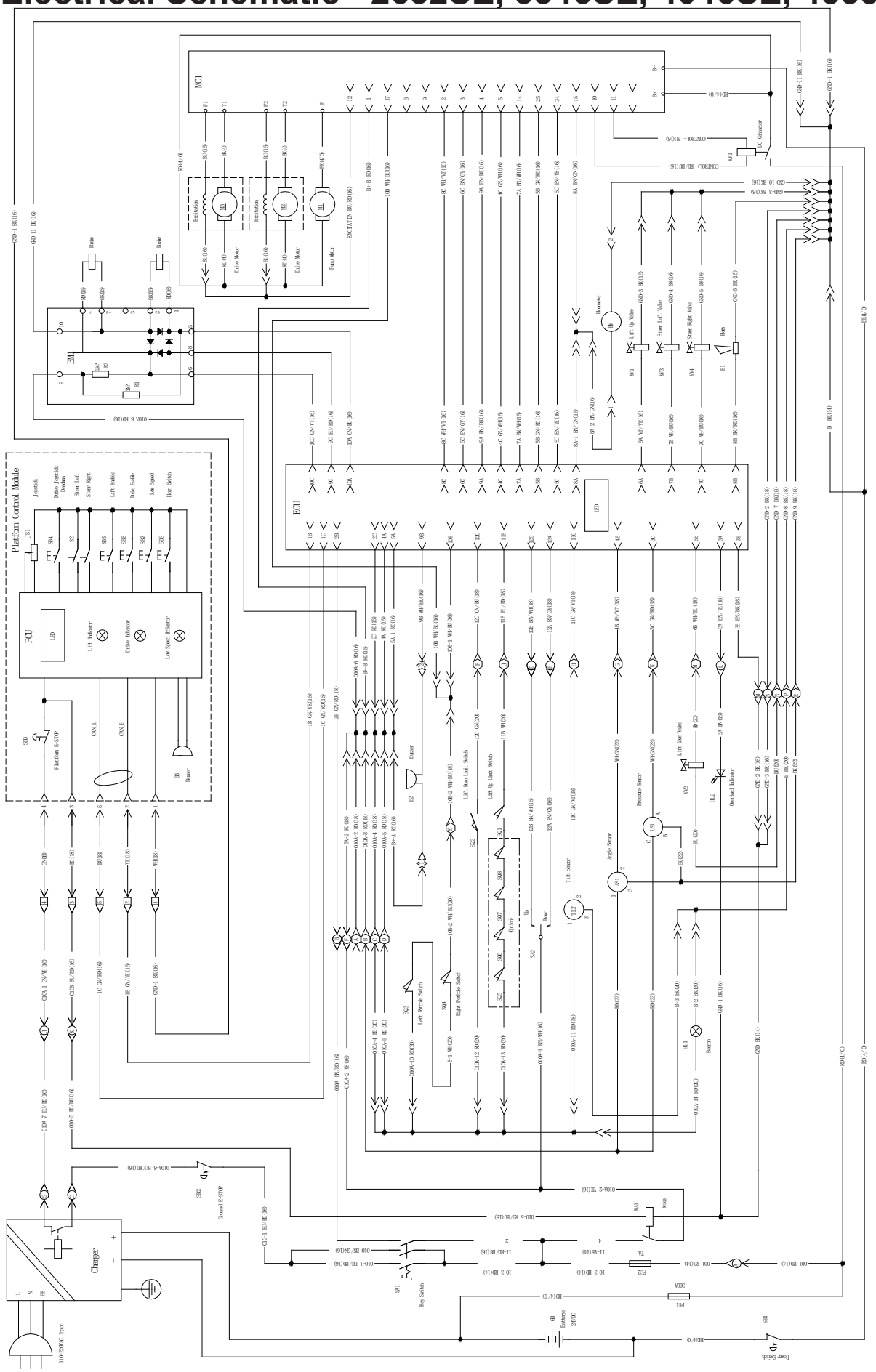
Electrical Schematic - 1930SE



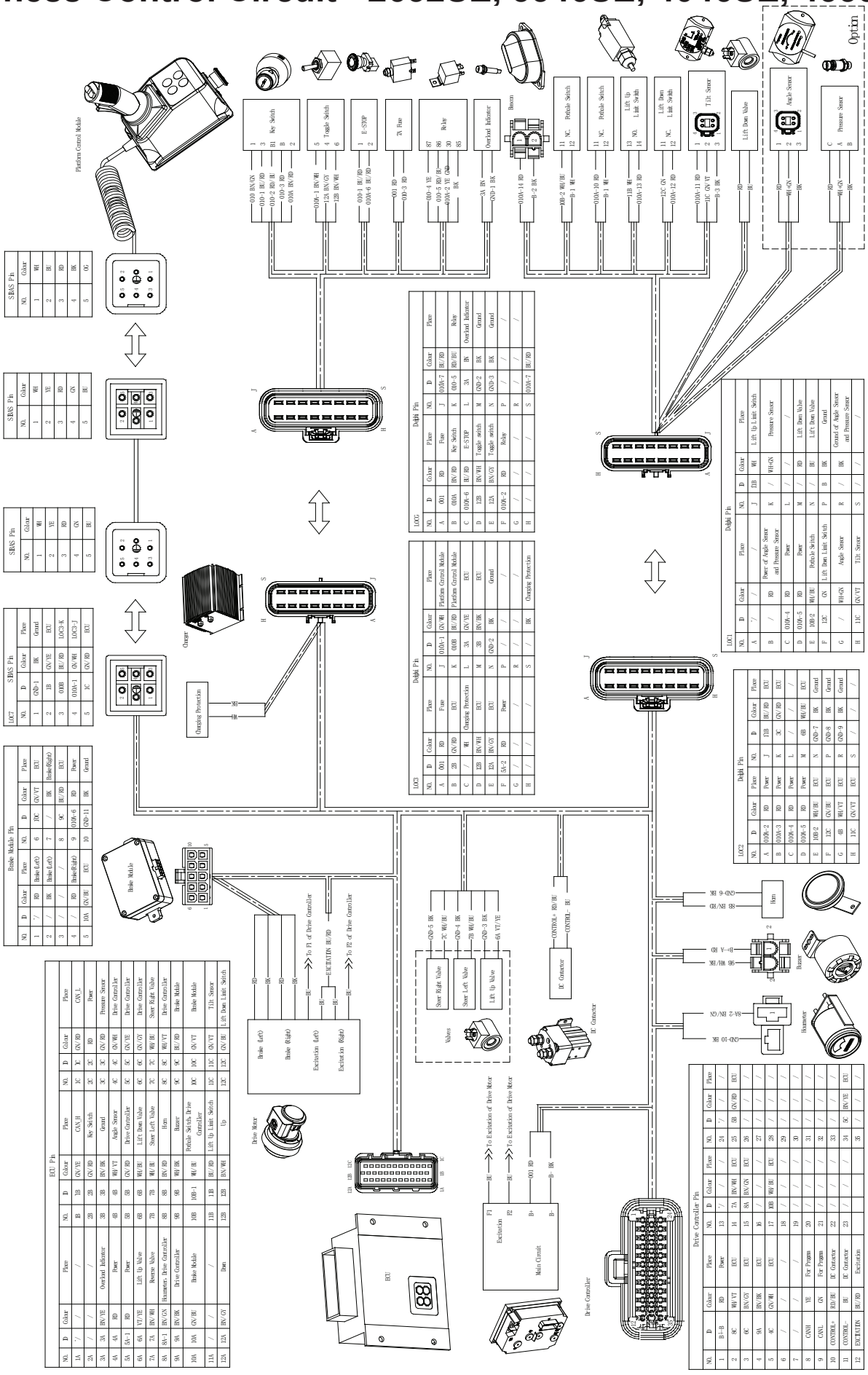
Harness Control Circuit - 1930SE



Electrical Schematic - 2632SE, 3346SE, 4046SE, 4555SE



Harness Control Circuit - 2632SE, 3346SE, 4046SE, 4555SE



Wiring Diagram

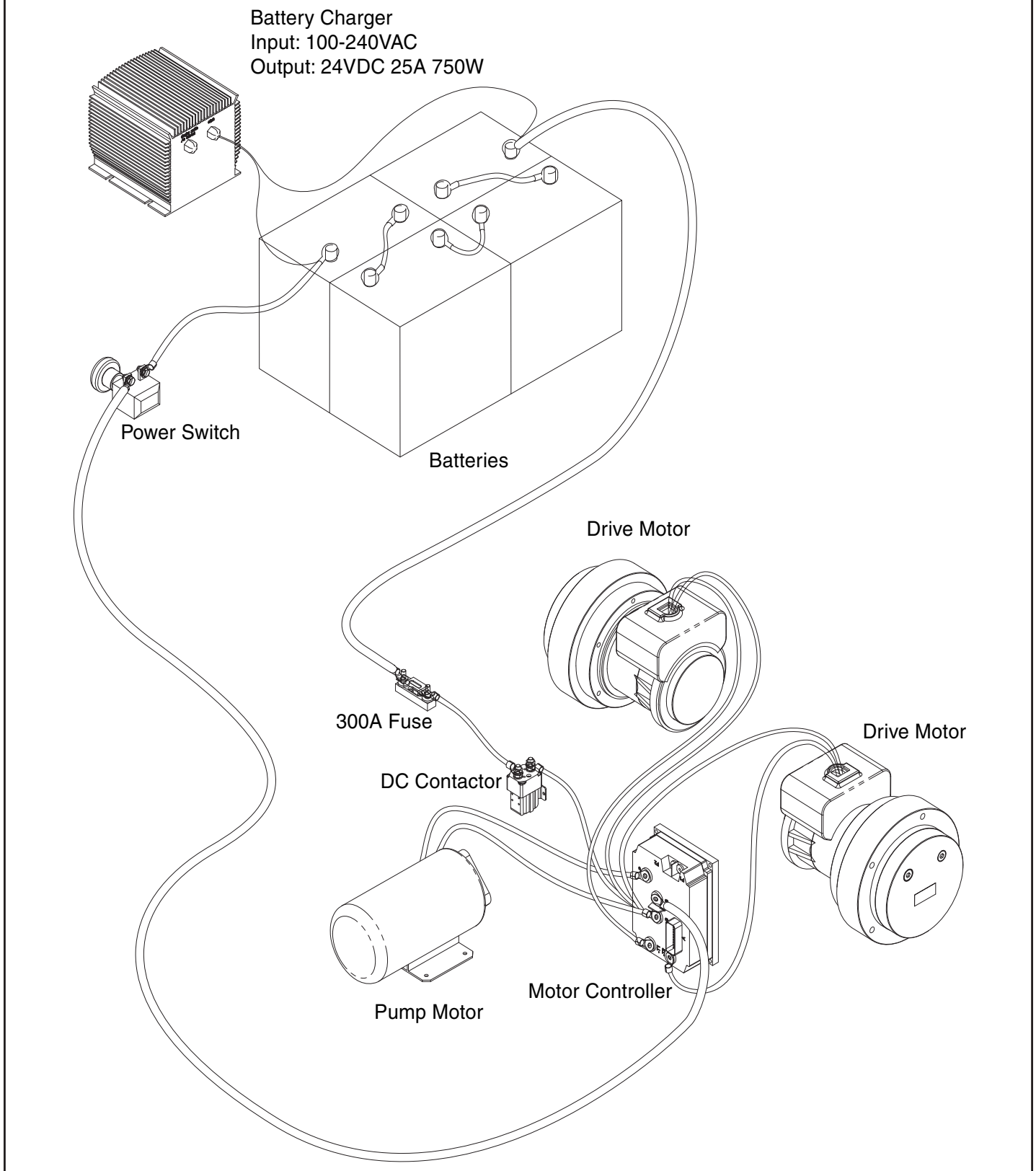


ILLUSTRATION No.
ART_5143

1930SE, 2632SE, 3346SE, 4046SE, 4555SE WIRING DIAGRAM

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.

Chassis Assembly - 1930SE

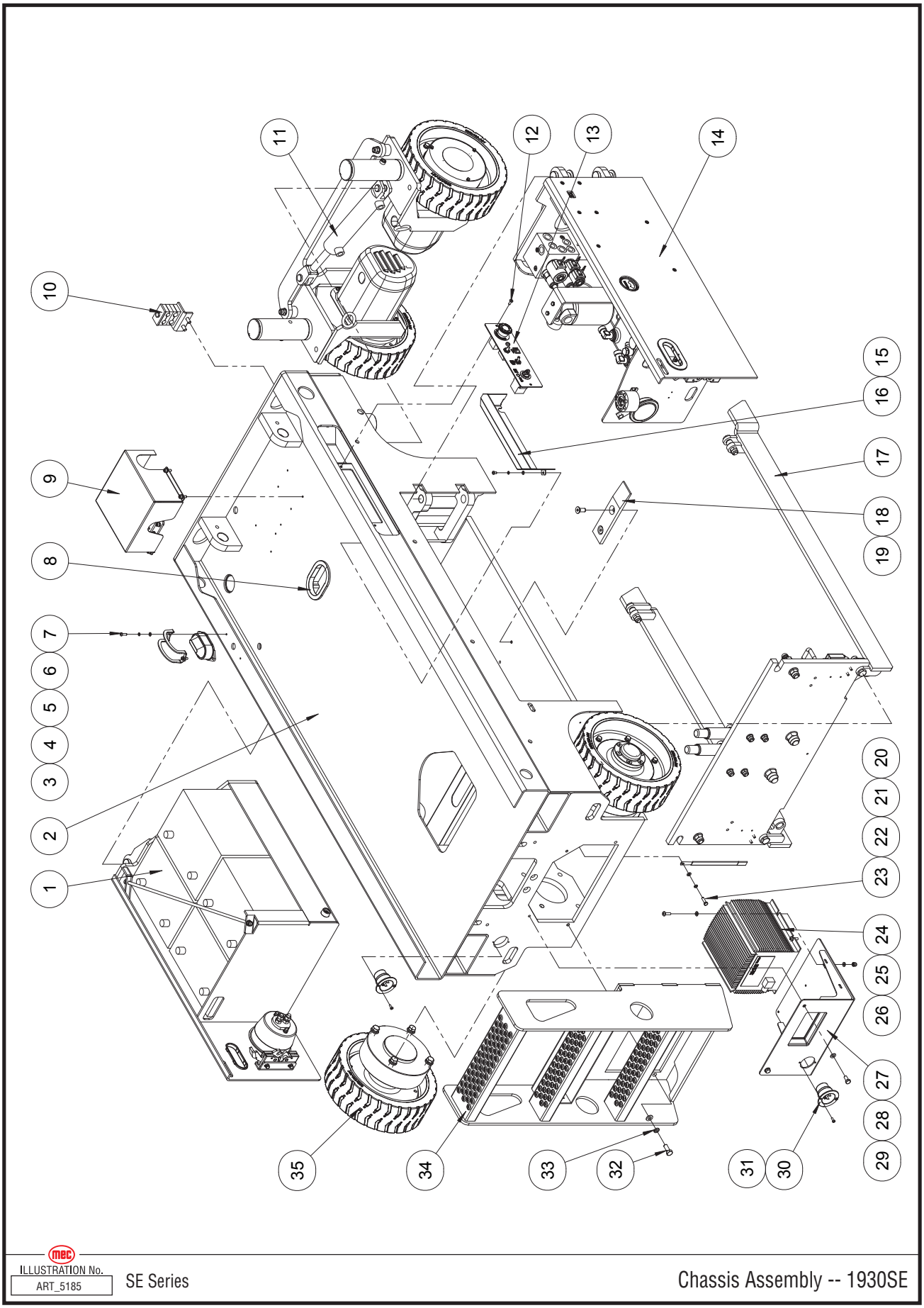


ILLUSTRATION No. ART_5185 SE Series Chassis Assembly -- 1930SE

Item	Part Number	Description	Qty.
1	41771	Battery Module	1
2	41772	Chassis Weldment	1
3	41310	Beacon	1
4	41309	Cover	1
5	53038	Washer, M5	6
6	53042	Screw, M5 x 16	2
7	53043	Washer, M5 Spring	6
8	41370	Trim Lock	1
9	REF	Refer to page 87.	1
10	41435	Pipe Bracket Assembly	1
11	41774	Steering Wheel Assembly	1
12	53056	Screw, M5 x 12	2
13	41775	Lower Controls Panel	1
14	41776	Controls Module	1
15	41777	Controls Cover	1
16	53044	Screw, M5 x 10	2
17	41778	Pothole Protection Assembly, 1930SE	1
18	41779	Spacer	2
19	50343	Screw, FHSC M8 x 20	4
20	41003	Static Strap	1
21	50000	Washer, M6	9
22	53046	Washer, M6 Spring	1
23	53051	Bolt, M6 x 16	1
24	41069	Battery Charger	1
25	53058	Screw, M6 x 12-H	4
26	50047	Nut, M6	4
27	41780	Bracket	1
28	50001	Washer, M8	2
29	50030	Bolt, M8 x 20	2
30	41575	Plug Socket	2
31	53034	Screw, M4 x 12	4
32	50033	Bolt, M10 x 25	4
33	53054	Washer, M10 Spring	4
34	41781	Ladder - 3 Step, ~ Serial # 164000294	1
35	41745	Ladder - 2 Step, Serial # 164000295 ~	1
36	41782	Rear Wheel Assembly, 1930SE	2

REF – Reference

Chassis Assembly - 2632SE

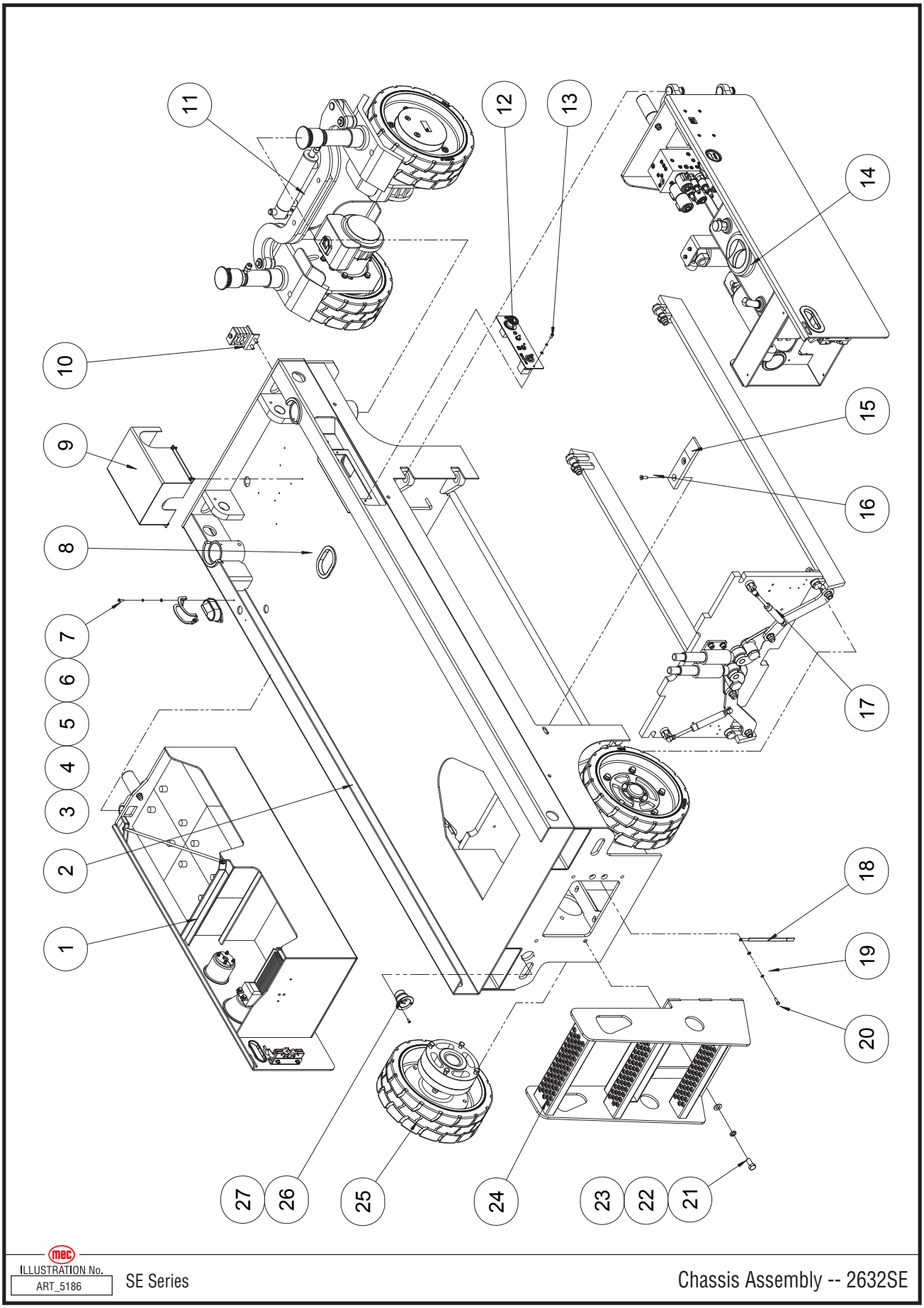


ILLUSTRATION No. ART_5186 SE Series Chassis Assembly -- 2632SE

Item	Part Number	Description	Qty.
1	41783	Battery Module Assembly	1
2	41784	Chassis Weldment	1
3	41310	Beacon	1
4	41309	Cover	1
5	53038	Washer 5	4
6	53043	Spring washer 5	4
7	53042	Screw M5×16-H	2
8	41370	Trim Lock	1
9	REF	Refer to page 87.	1
10	41450	Pipe Bracket Assembly	1
11	41438	Steering Wheel Assembly	1
12	41439	Ground Controls Assembly	1
13	53045	Screw M5×14-H	2
14	41440	Control Module Assembly	1
15	41375	Spacer	2
16	50348	Screw M8×25	4
17	41437	Pothole Protection Assembly	1
18	41003	Static Strap	1
19	53046	Spring washer 6	1
20	50028	Bolt M6×20	1
21	53070	Bolt M14×35	4
22	53048	Spring washer 14	4
23	53049	Washer 14	4
24	41374	Ladder	1
25	41441	Rear Wheel Assembly	2
26	41575	Plug Socket	1
27	53034	Screw, M4 x 12	2

REF – Reference

Chassis Assembly - 3346SE, 4046SE

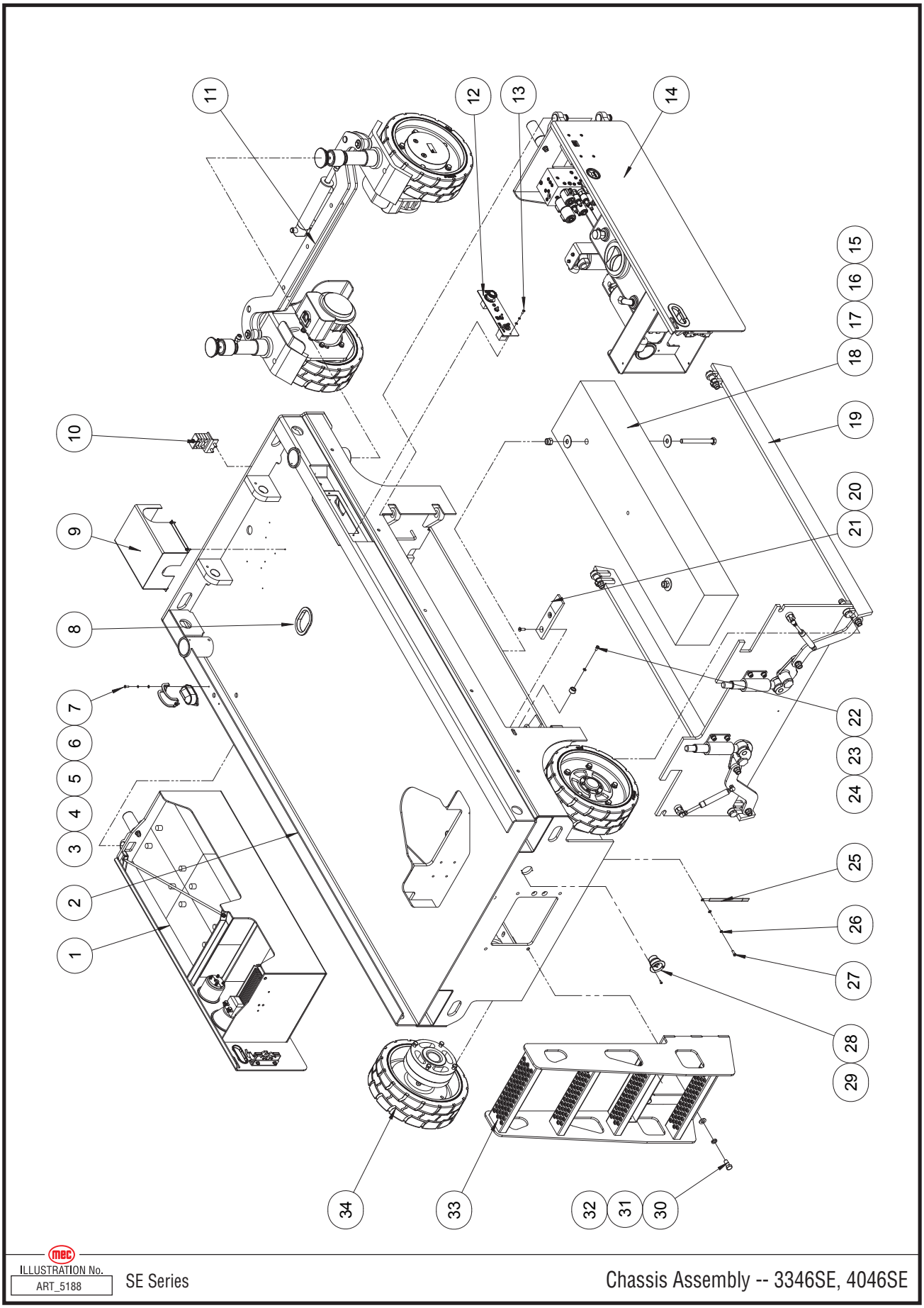


ILLUSTRATION No. ART_5188 SE Series Chassis Assembly -- 3346SE, 4046SE

Item	Part Number	Description	Qty.
1	41785	3346SE -- Battery Module Assembly	1
	41786	4046SE -- Battery Module Assembly	1
2	41787	Chassis Weldment	1
3	41310	Beacon	1
4	41309	Cover	1
5	53038	Washer 5	4
6	53043	Spring washer 5	4
7	53042	Screw M5×16-H	2
8	41370	Trim Lock	1
9	REF	Refer to page 87.	1
10	41435	Pipe Bracket Assembly	1
11	41453	Steering Wheel Assembly	1
12	41439	Ground Controls Assembly	1
13	53045	Screw M5×14-H	2
14	41455	Control Module Assembly	1
15	41457	Counterweight	1
16	50051	Nut, M16	2
17	50004	Washer, M16	4
18	53050	Bolt, M16 x 220	2
19	41459	Pothole Protection Assembly	
20	41375	Spacer	2
21	50348	Screw M8×25	4
22	53051	Bolt, M6 x 16	2
23	50000	Washer, M6	3
24	41461	Rubber Pad	2
25	41372	Static Strap	1
26	53046	Washer, M6 Spring	1
27	50028	Bolt M6×20	1
28	41575	Plug Socket	1
29	53034	Screw, M4 x 12	4
30	53070	Bolt M14×35	4
31	53048	Spring washer 14	4
32	53049	Washer 14	4
33	41464	3346SE -- Ladder	1
	41465	4046SE -- Ladder	1
34	41441	Rear Wheel Assembly	2

REF – Reference

Chassis Assembly - 4555SE

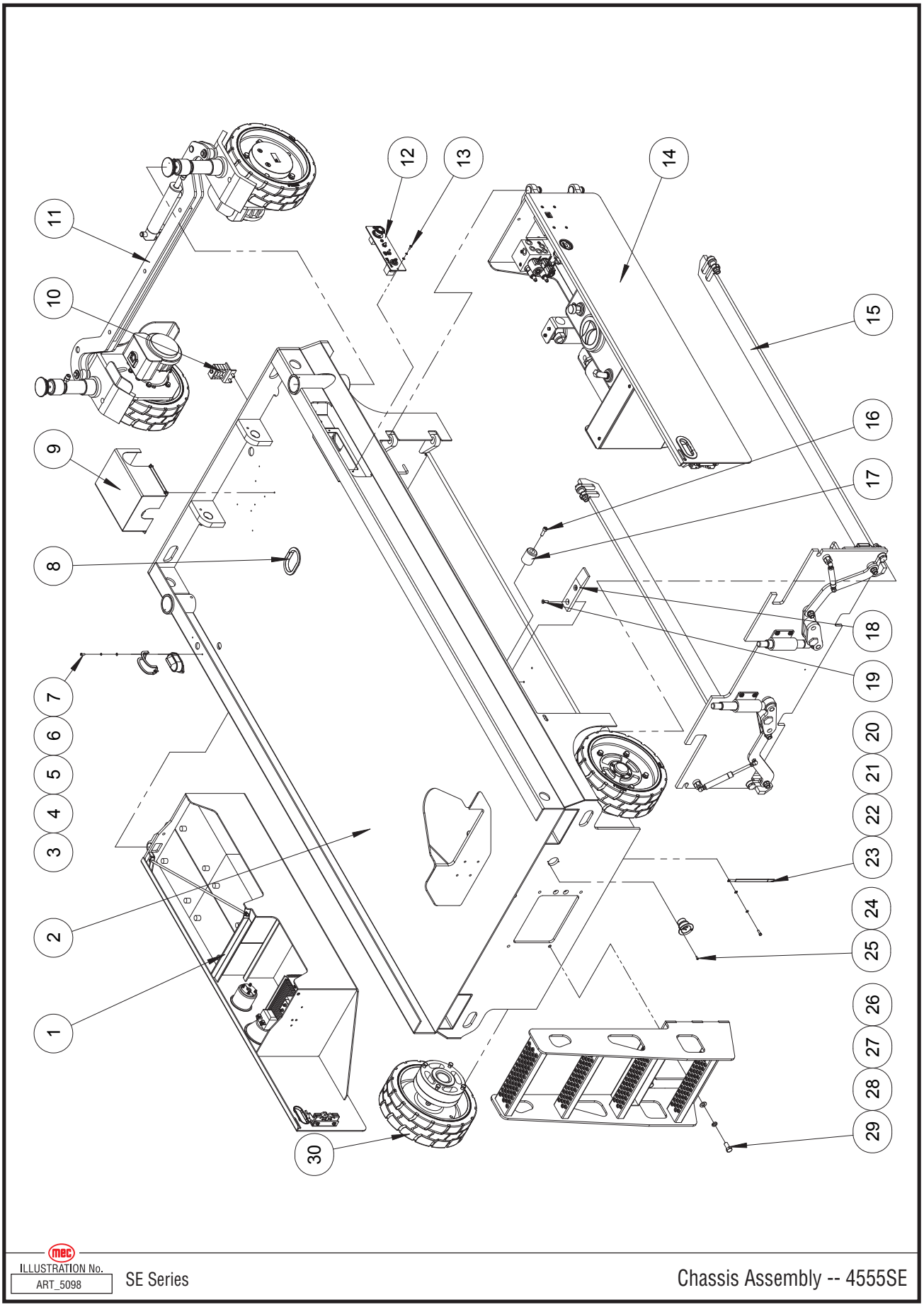


ILLUSTRATION No. ART_5098 SE Series Chassis Assembly -- 4555SE

Item	Part Number	Description	Qty.
1	41788	Battery Module Assembly	1
2	41789	Chassis Weldment (Up To Serial #16800800)	1
	43984	Chassis Weldment (From Serial #16800801)	1
3	41310	Beacon	1
4	41309	Cover	1
5	53038	Washer 5	4
6	53043	Spring washer 5	4
7	53042	Screw M5×16-H	2
8	41370	Trim Lock	1
9	REF	Refer to page 87.	1
10	41435	Pipe Bracket Assembly	1
11	41454	Steering Wheel Assembly	1
12	41439	Ground Controls Assembly	1
13	53045	Screw M5×14-H	2
14	41790	Control Module Assembly	1
15	REF	Pothole Protection Assembly (Refer to page 69)	1
16	50034	Screw M10×30	2
17	41462	Rubber pad	2
18	41002	Spacer	2
19	50348	Screw M8×25	4
20	41372	Static Strap	1
21	53046	Spring washer 6	1
22	50000	Washer 6	4
23	50028	Bolt M6×20	1
24	41575	Power Plug	1
25	53034	Screw, M4 x 12	4
26	41465	Ladder	1
27	53070	Bolt M14×35	4
28	53048	Spring washer 14	4
29	53049	Washer 14	4
30	41441	Rear Wheel Assembly	2

REF – Reference

Steering Wheel Assembly - 1930SE

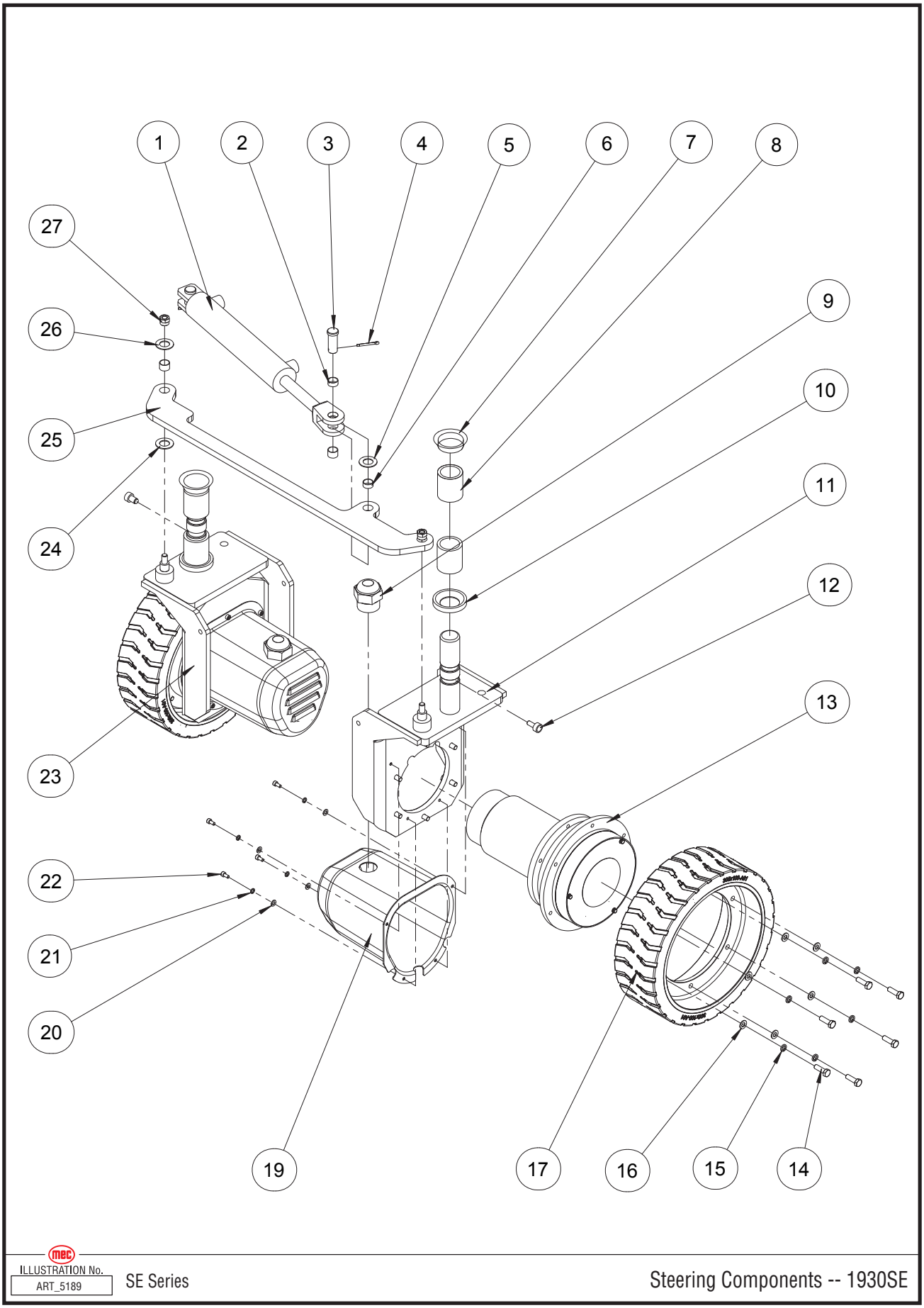


ILLUSTRATION No. ART_5189 SE Series

Steering Components -- 1930SE

Item	Part Number	Description	Qty.
--	41774	Steering Wheel Assembly, 1930SE	1
1	41593	Steering cylinder	1
--	41594	Seal kit	1
2	41225	Bearing	4
3	41321	Pin	2
4	41322	Cotter Pin	2
5	41226	Thrust Washer	2
6	41210	Bearing	4
7	41596	Cover	2
8	41595	Bearing	4
9	41603	Strain Relief	2
10	41792	Seal	2
11	41793	Steering Yoke, Left	1
12	41794	Screw	2
13	41795	Drive Motor Assembly	2
--	41796	Gear Reduction	2
--	41797	Motor	2
--	41601	Brake	2
14	50032	Bolt, M8 x 30	24
15	53055	Washer, M8 Spring	24
16	50001	Washer, M8	24
17	41591	Wheel	2
18	--	--	--
19	41597	Cover	2
20	53038	Washer, M5	8
21	53043	Washer, M5 Spring	8
22	53056	Screw, M5 x 12	8
--	--	--	--
24	41222	Bearing	2
25	41799	Tie Rod	1
26	50002	Washer, M10	2
27	50049	Nut, M10	2
28	41925	Steering Yoke, Right	1
29	41926	Motor Baffle	2
30	53095	Screw M10 x 20	8

Steering Wheel Assembly - 2632SE, 3346SE, 4046SE, 4555SE

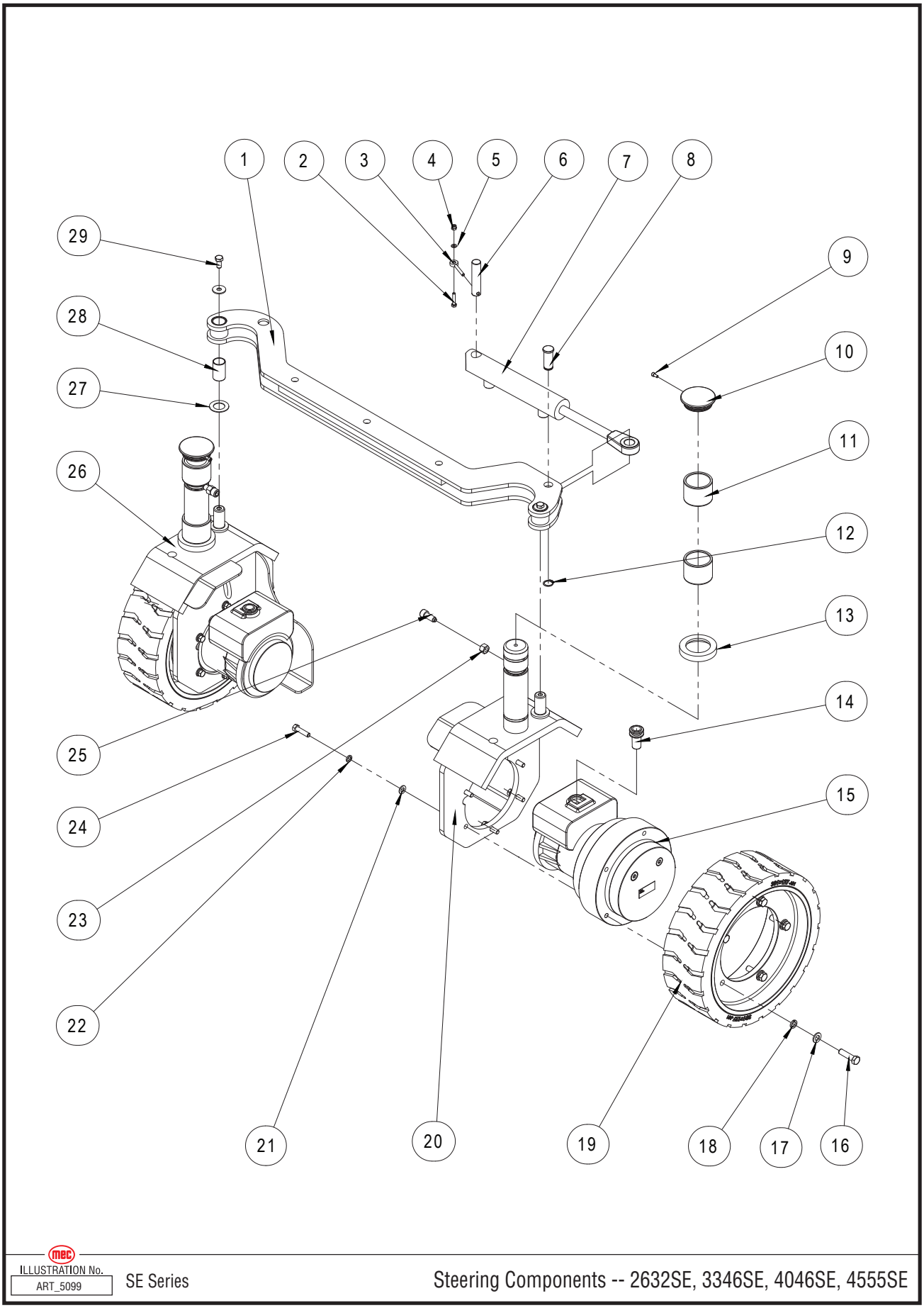


ILLUSTRATION No. ART_5099 SE Series

Steering Components -- 2632SE, 3346SE, 4046SE, 4555SE

Item	Part Number	Description	Qty.
1	41391	2632SE -- Steer linkage	1
	41393	3346SE, 4046SE -- Steer linkage	1
	41394	4555SE -- Steer linkage	1
2	50214	Bolt M6×30	1
3	41342	Pin 6×45	1
4	50000	Washer 6	1
5	50047	Nut M6	1
6	41386	Axle	1
7	41387	Steering cylinder	1
--	41388	Seal kit	1
8	41389	Axle	1
9	53044	Screw M5×10	2
10	41010	Cover	2
11	41011	Bearing	4
12	41061	Snap Ring	1
13	41378	Washer	2
14	41379	Sheath	2
15	41380	Drive Motor	2
--	41381	Reducer	2
--	41382	Motor	2
--	41383	Brake	2
16	53052	Bolt M12×1.5×45	10
17	53053	Washer, M12 Spring	10
18	50003	Washer, M12	10
19	41384	Wheel	2
20	41385	Steer yoke	1
21	50002	Washer, M10	12
22	53054	Washer, M10 Spring	12
23	50590	Nut M12	2
24	53060	Bolt 3/8-16×1.51-C	12
25	41376	Screw	2
26	41377	Steer yoke	1
27	41019	Bearing	2
28	41020	Bearing	2
29	50215	Bolt M10×20	2

Rear Wheel Assembly - 1930SE

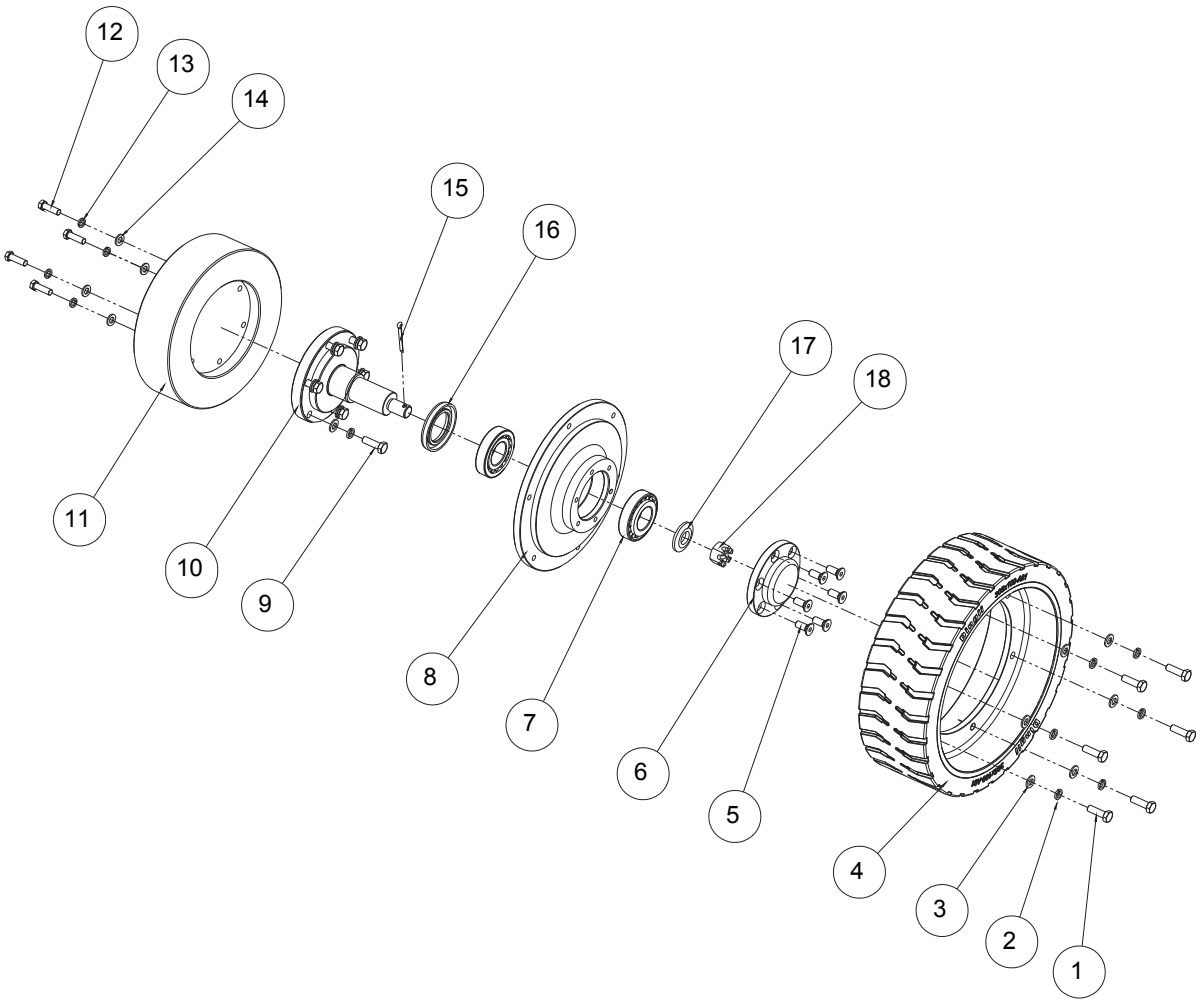


ILLUSTRATION No. ART_5190 SE Series

Rear Wheels -- 1930SE

Item	Part Number	Description	Qty.
--	41782	Rear Wheel Assembly, 1930 SE	2
1	50032	Bolt, M8 x 30	6
2	53055	Washer, M8 Spring	12
3	50001	Washer, M8	12
4	41591	Wheel	1
5	50457	Screw M8×20	6
6	41237	Cap	1
7	41024	Bearing	2
8	41803	Plate	1
9	50032	Bolt, M8 x 30	6
10	41804	Spindle	1
11	41805	Terminal Pad	1
12	50236	Bolt, M12 x 40	4
13	53053	Washer, M12 Spring	4
14	50003	Washer, M12	4
15	41322	Cotter Pin, 4 x 40	1
16	41023	Seal	1
17	41237	Washer	1
18	41236	Nut, M16-1.5 Castle	1

Rear Wheel Assembly - 2632SE, 3346SE, 4046SE, 4555SE

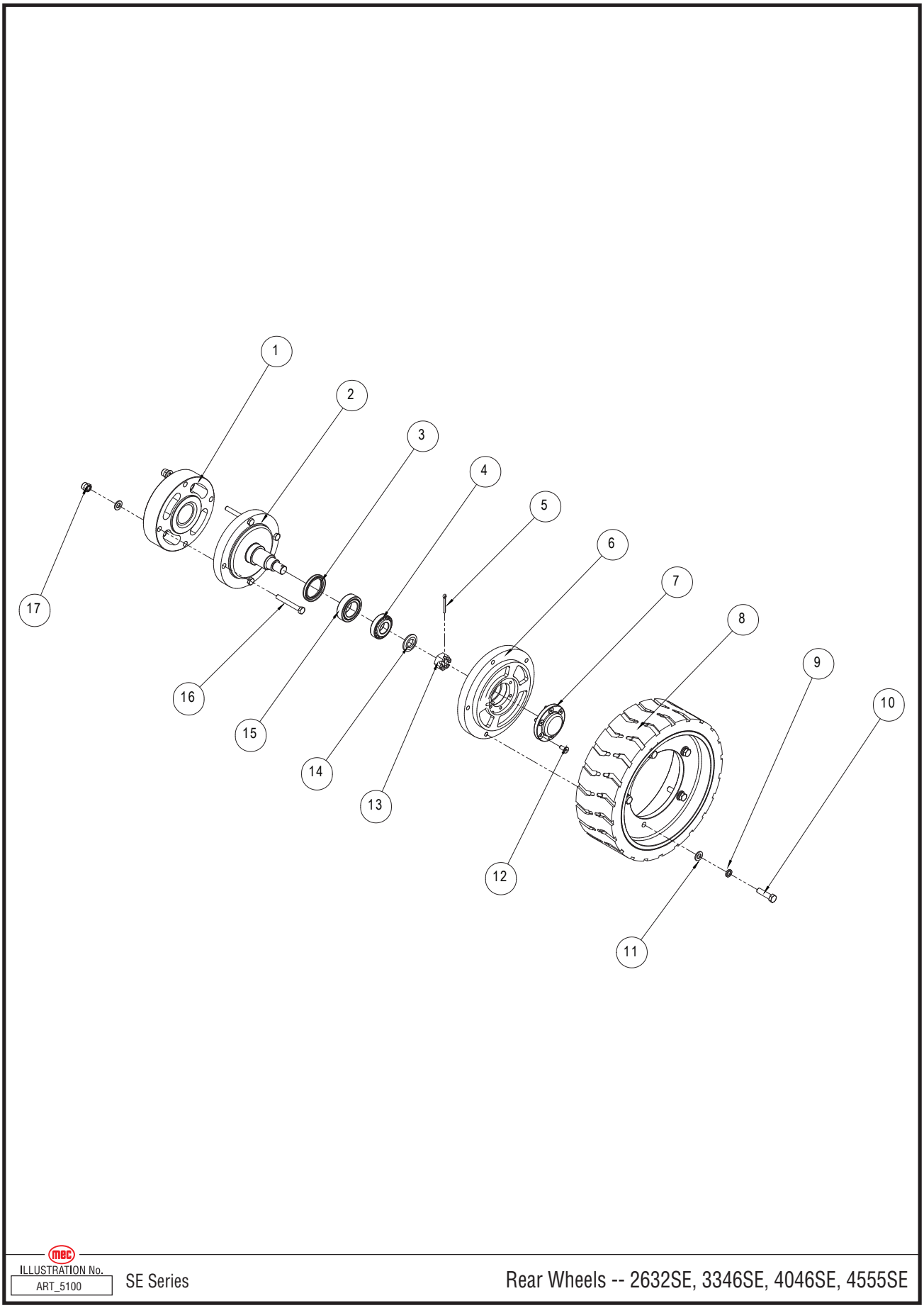


ILLUSTRATION No. ART_5100 SE Series Rear Wheels -- 2632SE, 3346SE, 4046SE, 4555SE

Item	Part Number	Description	Qty.
--	41441	Rear Wheel Assembly	2
1	41021	Cushion	1
2	41022	Axle Seat	1
3	41023	Seal FB70 50 8	1
4	41324	Bearing 30206	1
5	41322	Cotter Pin 5×40	1
6	41025	Bearing seat	1
7	41328	End cover	1
8	41027	Wheel	1
9	53053	Washer, M12 Spring	5
10	53052	Bolt M12-1.5 x 45	5
11	50003	Washer 12	9
12	50457	Screw M8×20	6
13	41028	Nut M22×1.5	1
14	41304	Washer	1
15	41324	Bearing	1
16	50323	Bolt M12×100	4
17	50590	Nut M12	4

Pothole Protection Assembly - 1930SE

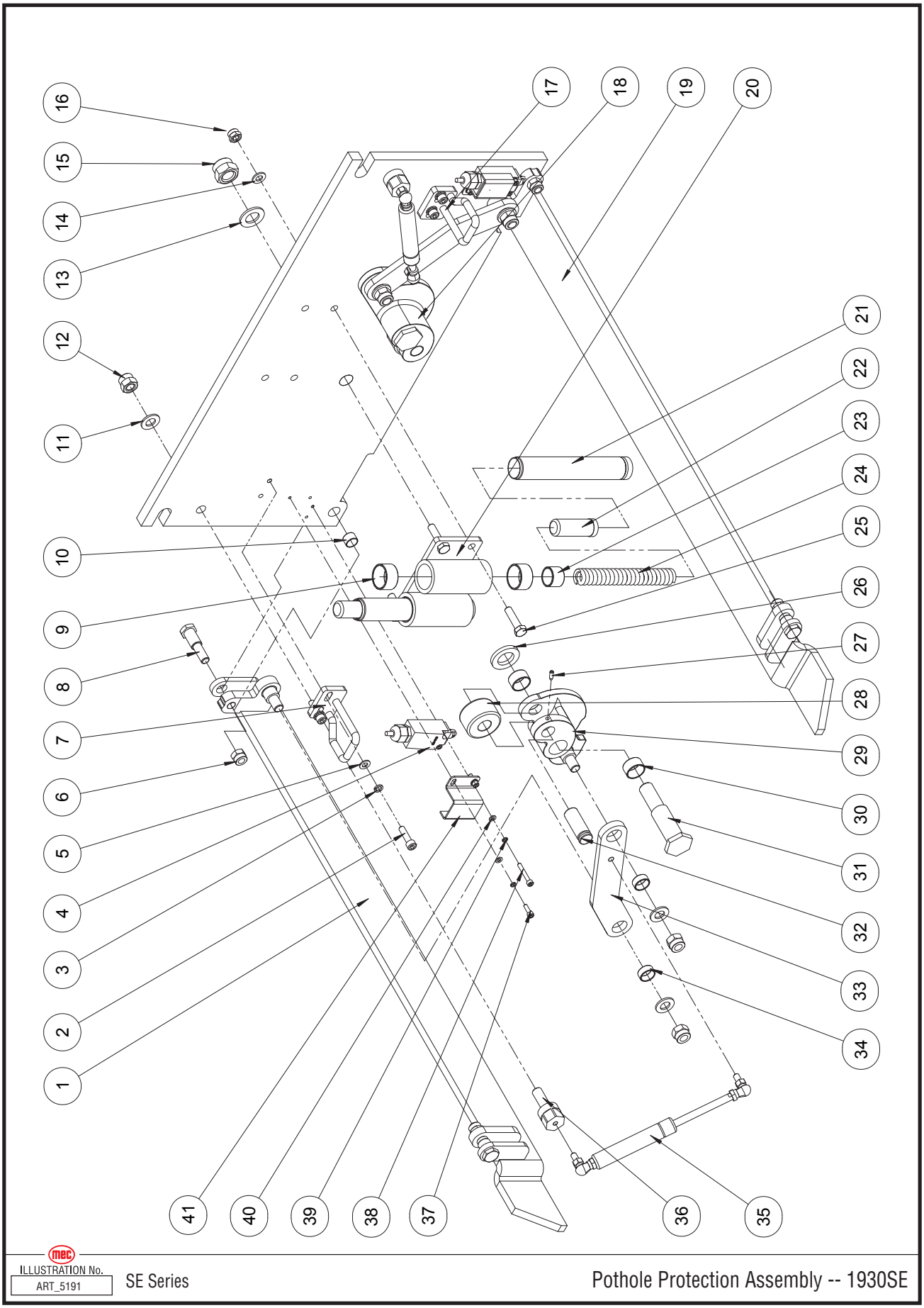


ILLUSTRATION No. ART_5191 SE Series Pothole Protection Assembly -- 1930SE

Item	Part Number	Description	Qty.
--	41778	Pothole Protection Assembly	1
1	41806	Pothole Guard	1
2	50010	Bolt, SHCS M8 x 25	4
3	53055	Washer, M8 Spring	4
4	41036	Switch	2
5	50001	Washer, M8	4
6	50050	Nut, M12	4
7	41807	Hasp	1
8	41604	Axle Bolt	4
9	41051	Bearing	4
10	41210	Bearing	4
11	53049	Washer, M14	6
12	50303	Nut, M14	6
13	50005	Washer, M20	2
14	50002	Washer, M10	4
15	50052	Nut, M20	2
16	50049	Nut, M10	4
17	41808	Hasp	1
18	47093	Linkage Weldment	1
19	41809	Pothole Guard	1
20	41395	Actuator Seat	1
21	41605	Pothole Actuator Weldment	2
22	41606	Pothole Actuator Pin	2
23	41055	Bearing	2
24	41053	Spring	2
25	50035	Bolt, M10 x 40	4
26	41040	Thrust Washer	2
27	53056	Screw, M5 x 12	2
28	41049	Roller	2
29	47092	Linkage Weldment	1
30	41046	Bearing	4
31	41047	Axle Bolt	2
32	41048	Axle Pin	2
33	41810	Rear Linkage	2
34	41043	Bearing	4
35	41045	Gas Spring	2
36	41044	Gas Spring Axle	2
37	53081	Screw, M5 x 12	4
38	53082	Screw, M5 x 35	4
39	53043	Washer, M5 Spring	8
40	53038	Washer, M5	8
41	41035	Switch Cover	2

Pothole Protection Assembly - 2632SE, 3346SE, 4046SE, 4555SE

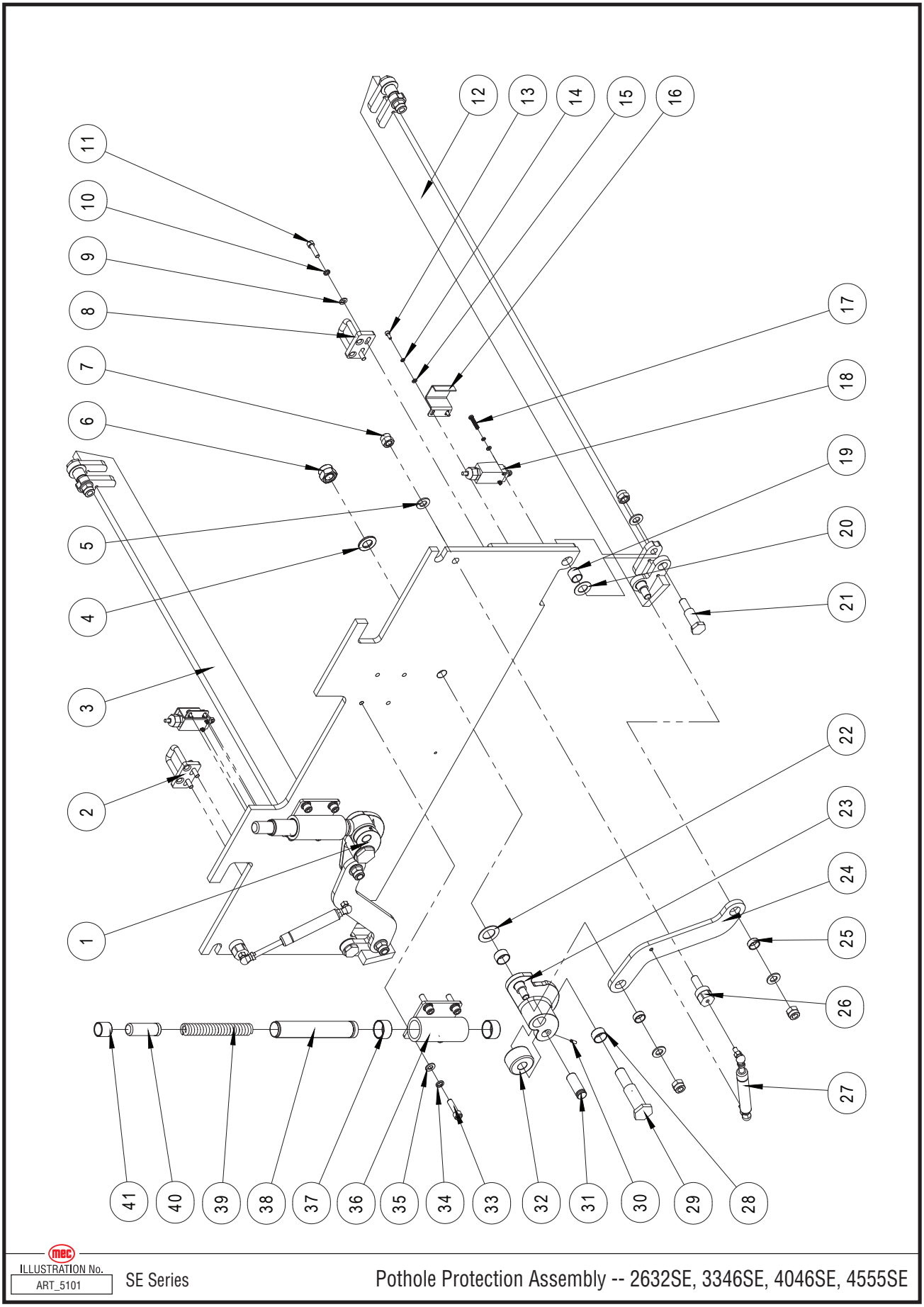


ILLUSTRATION No. ART_5101 SE Series

Pothole Protection Assembly -- 2632SE, 3346SE, 4046SE, 4555SE

Item	Part Number	Description	Qty.
1	41030	2632SE, 3346SE, 4046SE -- Linkage Weldment	1
	41400	4555SE -- Linkage Weldment	1
2	41031	Lock Hasp	1
3	41401	2632SE, 3346SE, 4046SE -- Pothole Guard	1
	41032	4555SE -- Pothole Guard	1
4	50005	Washer 20	2
5	53049	Washer 14	10
6	50052	Nut M20	2
7	50303	Nut M14	10
8	41033	Lock Hasp	1
9	50001	Washer 8	4
10	53055	Spring washer 8	4
11	50030	Screw M8×20	4
12	41402	2632SE, 3346SE, 4046SE -- Pothole Guard	1
	41034	4555SE -- Pothole Guard	1
13	53056	Screw M5×12	4
14	53043	Spring washer 5	8
15	53038	Washer 5	8
16	41035	Switch Cover	2
17	53057	Screw M5×30	4
18	41036	Pothole Switch	2
19	41037	Bearing	4
20	41038	Bearing	4
21	41039	Pothole Guard Axle	4
22	41040	Thrust Washer	2
23	41041	Linkage Weldment	1
24	41396	2632SE -- Rear Linkage	2
	41397	3346SE -- Rear Linkage	2
	41398	4046SE -- Rear Linkage	2
	41042	4555SE -- Rear Linkage	2
25	41043	Bearing	4
26	41044	Mount, Gas Spring	2
27	41045	Gas spring	2
28	41046	Bearing	4
29	41047	Linkage Axle	2
30	53056	Screw M5×12	2
31	41048	Roller Pin	2
32	41049	Roller	2
33	50116	Screw M10×25	8
34	53054	Spring washer 10	8
35	50002	Washer 10	4
36	41395	2632SE, 3346SE, 4046SE -- Actuator Seat	2
	41050	4555SE -- Actuator Seat	2
37	41051	Bearing	4
38	41390	2632SE, 3346SE, 4046SE -- Pothole actuator weldment	2
	41052	4555SE -- Pothole actuator weldment	2
39	41053	Spring	2
40	41054	Pothole actuator pin	2
41	41055	Bearing	2

Battery Module Assembly - 1930SE

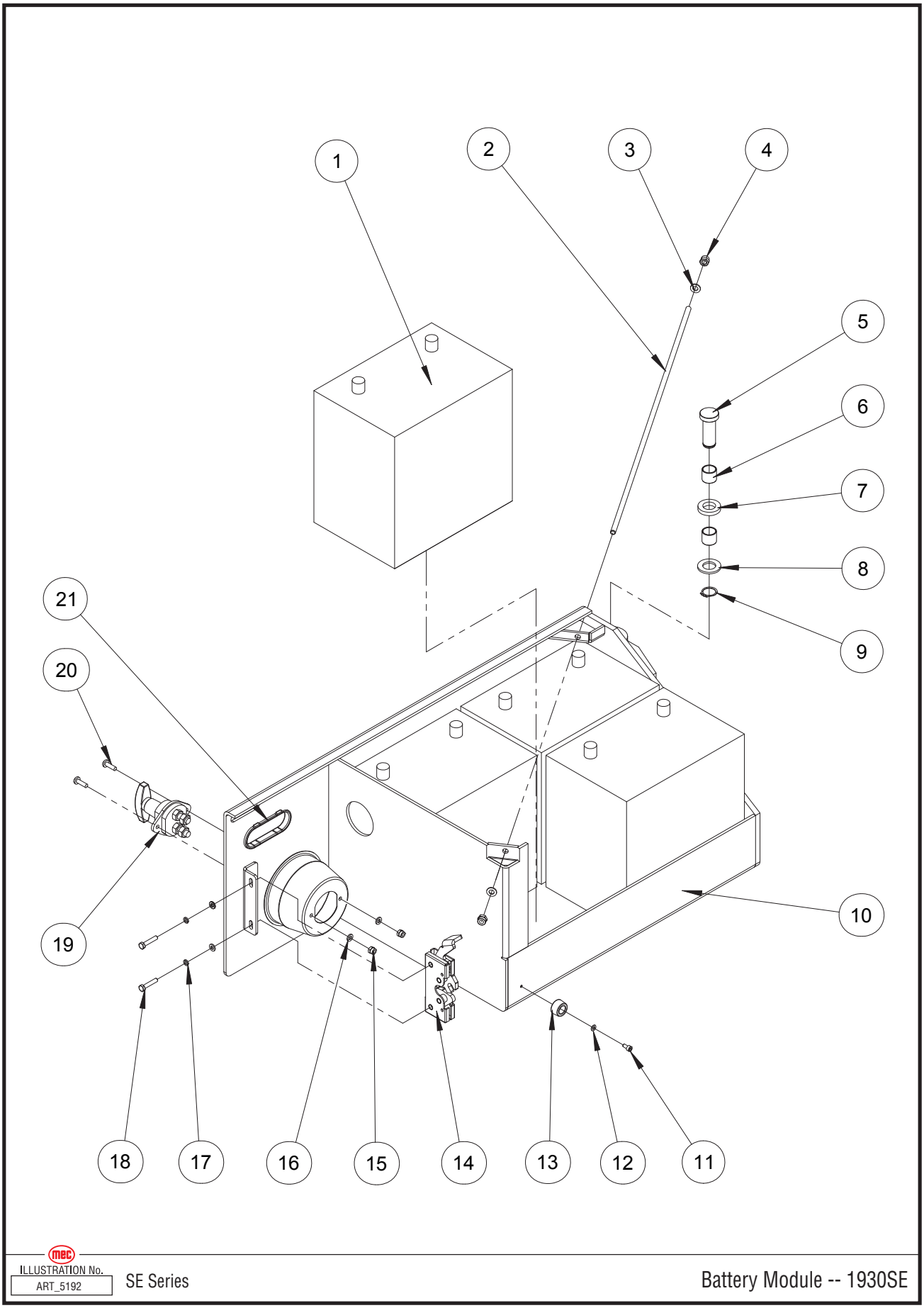


ILLUSTRATION No. ART_5192 SE Series Battery Module -- 1930SE

Item	Part Number	Description	Qty.
--	41771	Battery Module Assembly, 1930SE	1
1	41811	Battery, Trojan T605	4
2	41812	Brace	1
3	50001	Washer, M8	2
4	50048	Nut, M8	2
5	41813	Pin	2
6	41037	Bearing	4
7	41814	Spacer Washer	2
8	50005	Washer, M20	2
9	41355	Snap Ring	2
10	41815	Battery Tray	1
11	53044	Screw, M5 x 10	1
12	53038	Washer, M5	1
13	41461	Bumper	1
14	41067	Latch	1
15	50047	Nut, M6	2
16	50000	Washer, M6	2
17	53046	Washer, M6 Spring	2
18	50214	Bolt, M6 x 30	2
19	41607	Power Switch	1
20	53051	Screw, M6 x 16-H	2
21	41068	Handle Ring	1

Battery Module Assembly - 2632SE, 3346SE, 4046SE, 4555SE

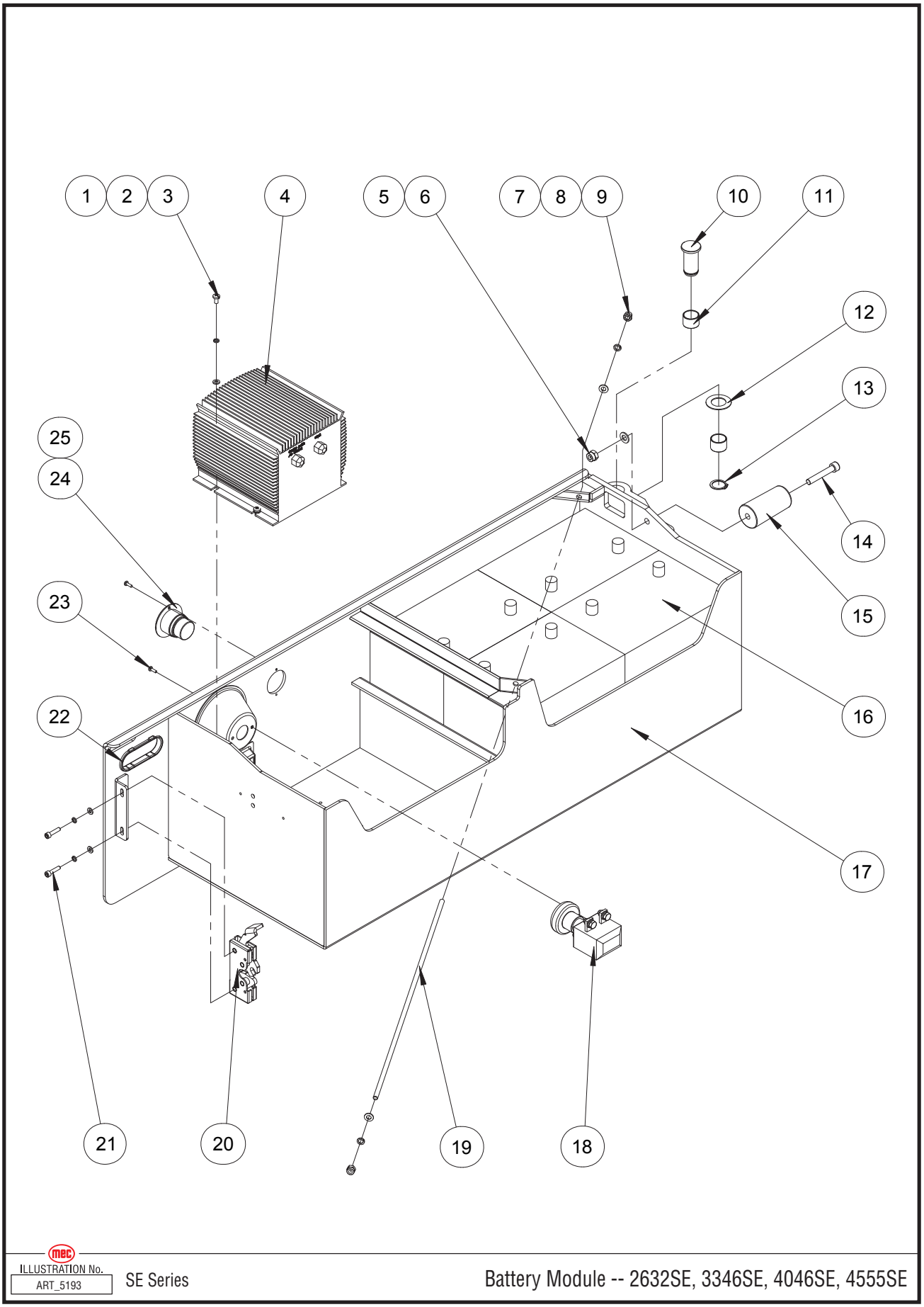


ILLUSTRATION No. ART_5193 SE Series Battery Module -- 2632SE, 3346SE, 4046SE, 4555SE

Item	Part Number	Description	Qty.
1	53058	Screw M6×12-H	4
2	50000	Washer M6	6
3	53046	Washer, M6 Spring	6
4	41069	Battery Charger	1
5	50049	Nut, M10	1
6	50002	Washer, M10	1
7	50001	Washer 8	2
8	53055	Washer, M8 Spring	2
9	50048	Nut M8	2
10	41060	Hinge Pin	2
11	41046	Bearing	4
12	41019	Bearing	2
13	41061	Snap Ring	2
14	50507	Bolt, SHCS M10 x 60	1
15	41062	Rubber Block	1
16	41403	2632SE -- Battery Trojan T105	4
	41404	3346SE -- Battery Trojan T125	4
	41405	4046SE, 4555SE -- Battery Trojan T1275	4
17	41585	2632SE, 3346SE -- Battery Module Weldment	1
	41816	4046SE -- Battery Module Weldment	1
	41063	4555SE -- Battery Module Weldment	1
18	41065	Main Power Switch	1
19	41408	2632SE, 3346SE -- Brace	1
	41066	4046SE, 4555SE -- Brace	
20	41067	Latch	1
21	50117	Screw M6×25	2
22	41068	Handle Ring	1
23	53042	Screw M5×16	4
24	41575	Plug Receptacle	1
25	53034	Screw, M4 x 12-H	4

Control Module Assembly - 1930SE

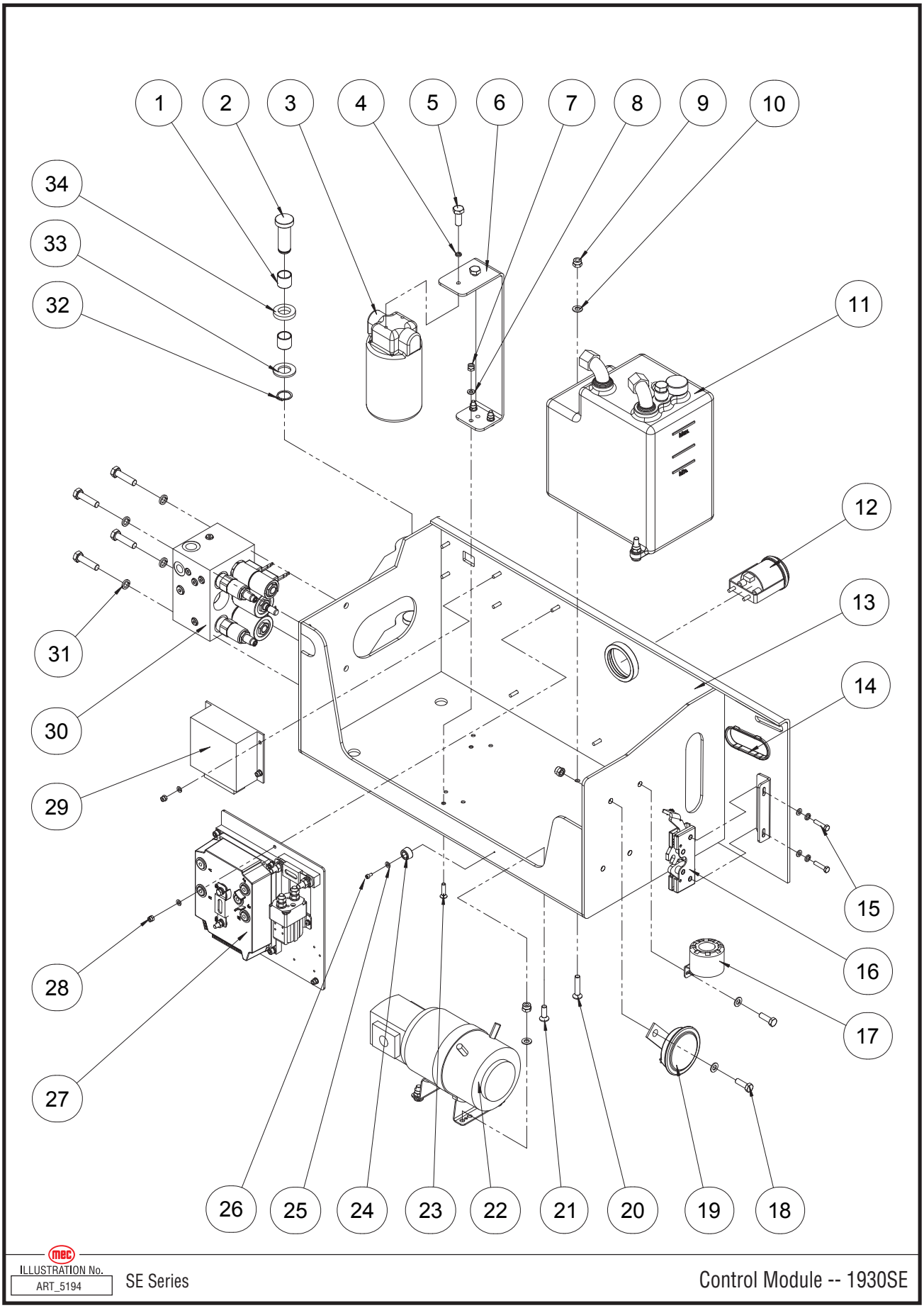


ILLUSTRATION No. ART_5194 SE Series Control Module -- 1930SE

Item	Part Number	Description	Qty.
1	41037	Bearing	4
2	41813	Pin	2
3	41077	Oil Filter	1
--	41078	Filter Element	1
4	53046	Washer, M6 Spring	4
5	50025	Bolt, M6 x 20	2
6	41817	Filter Bracket	1
7	50047	Nut, M6	3
8	50000	Washer, M6	5
9	53014	Nut, M8	8
10	50001	Washer, M8	8
11	41818	Hydraulic Tank Assembly	1
12	41070	Hour Meter	1
13	41819	Controls Module Weldment	1
14	41068	Handle Ring	1
15	50117	Bolt M6×25	2
16	41067	Latch	1
17	41074	Alarm	1
18	50031	Screw M8×25	6
19	41075	Horn	1
20	50276	Screw, FHSC M8 x 25	2
21	50457	Screw, FHSC M8 x 20	4
22	41608	Pump Assembly	1
--	41820	Motor	--
--	41609	Pump	--
23	53051	Screw M6×16-H	2
24	41461	Bumper	1
25	53038	Washer, M5	8
26	53044	Screw, M5 x 10	1
27	--	Motor Controller Assembly, 1930SE (Refer to page 83)	--
28	50524	Nut, M5	7
29	41080	ECU Module	1
30	41081	Functions Manifold	1
31	53055	Washer, M8 Spring	4
32	41355	Snap Ring	2
33	50005	Washer, M20	2
34	41814	Spacer Washer	2

Control Module Assembly - 2632SE, 3346SE, 4046SE, 4555SE

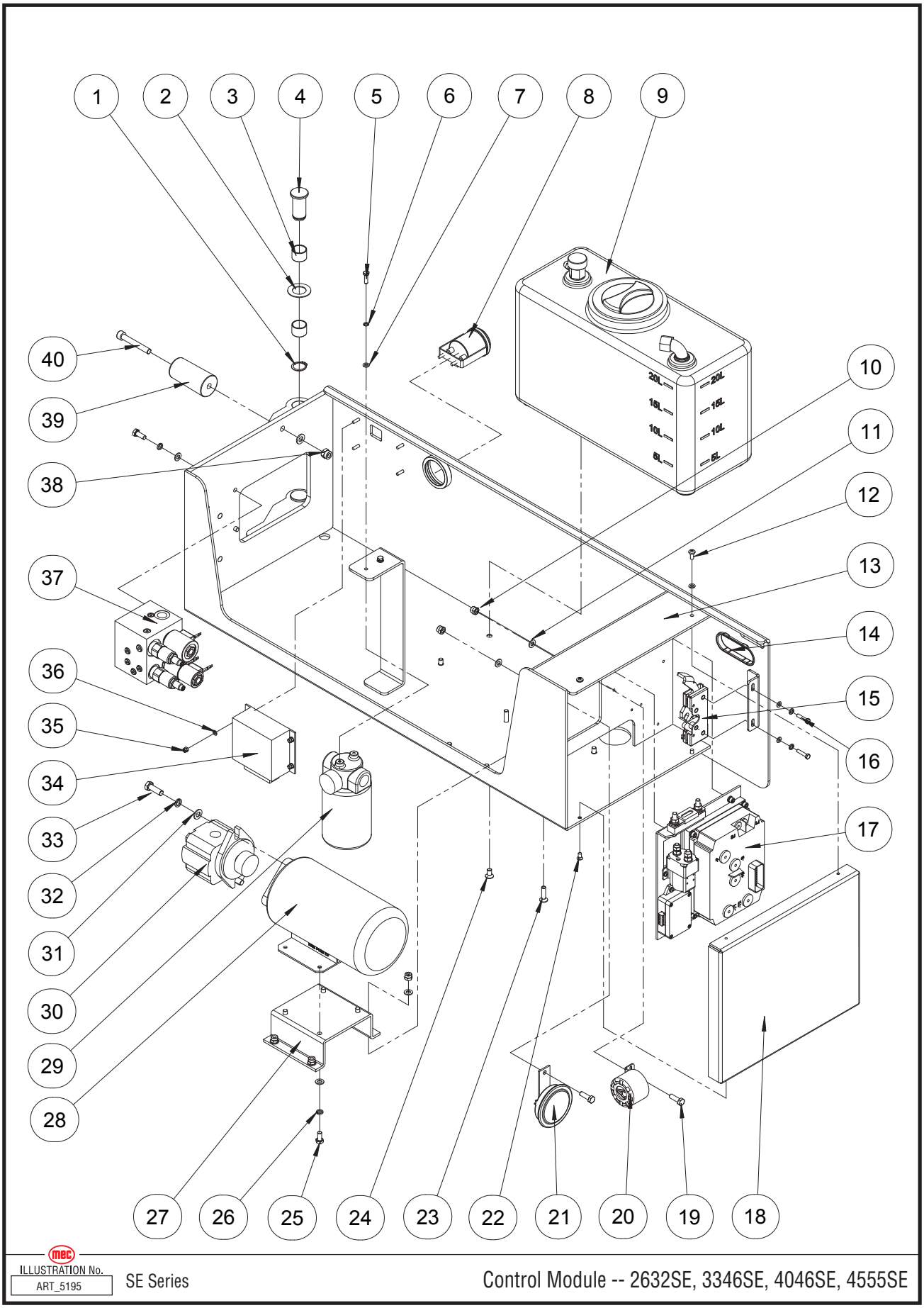


ILLUSTRATION No. ART_5195 SE Series Control Module -- 2632SE, 3346SE, 4046SE, 4555SE

Item	Part Number	Description	Qty.
1	41061	Snap Ring	2
2	41019	Bearing	2
3	41046	Bearing	4
4	41060	Hinge Pin	2
5	50025	Bolt M6×20	2
6	53046	Washer M6, Spring	4
7	50000	Washer M6	6
8	41070	Hour Meter	1
9	41071	Hydraulic Tank Assembly	1
10	53014	Nut M8	10
11	50001	Washer 8	14
12	53051	Screw M6×16-H	2
13	41409	2632SE, 3346SE, 4046SE -- Controls Module Weldment	1
	41822	4555SE -- Controls Module Weldment	1
14	41068	Handle Ring	1
15	50117	Bolt M6×25	2
16	41067	Latch	1
17	--	Motor Controller Assembly (Refer to page 85)	1
18	41073	Cover	1
19	50031	Bolt M8×25	6
20	41074	Alarm	1
21	41075	Horn	1
22	53058	Screw M6×12-H	2
23	50031	Screw M8×25	4
24	53059	Screw M8×16	4
25	50295	Bolt M8×16	4
26	53055	Washer M8, Spring	8
27	41410	Motor Bracket	1
28	41411	2632SE -- Motor	1
	41076	3346SE, 4046SE, 4555SE -- Motor	1
29	41077	Oil filter	1
--	41078	Filter element	1
30	41426	2632SE -- Hydraulic Pump	1
	41079	3346SE, 4046SE, 4555SE -- Hydraulic Pump	1
31	50002	Washer 10	3
32	53054	Spring washer 10	2
33	53060	Bolt 3/8-24×1.5-C	2
34	41889	ECU module	1
35	50524	Nut M5	4
36	53038	Washer 5	4
37	41081	Valve	1
38	50049	Nut, M10	1
39	50507	Bolt, SHCS M10 x 60	1
40	41062	Rubber Block	1

Hydraulic Tank Assembly - 1930SE

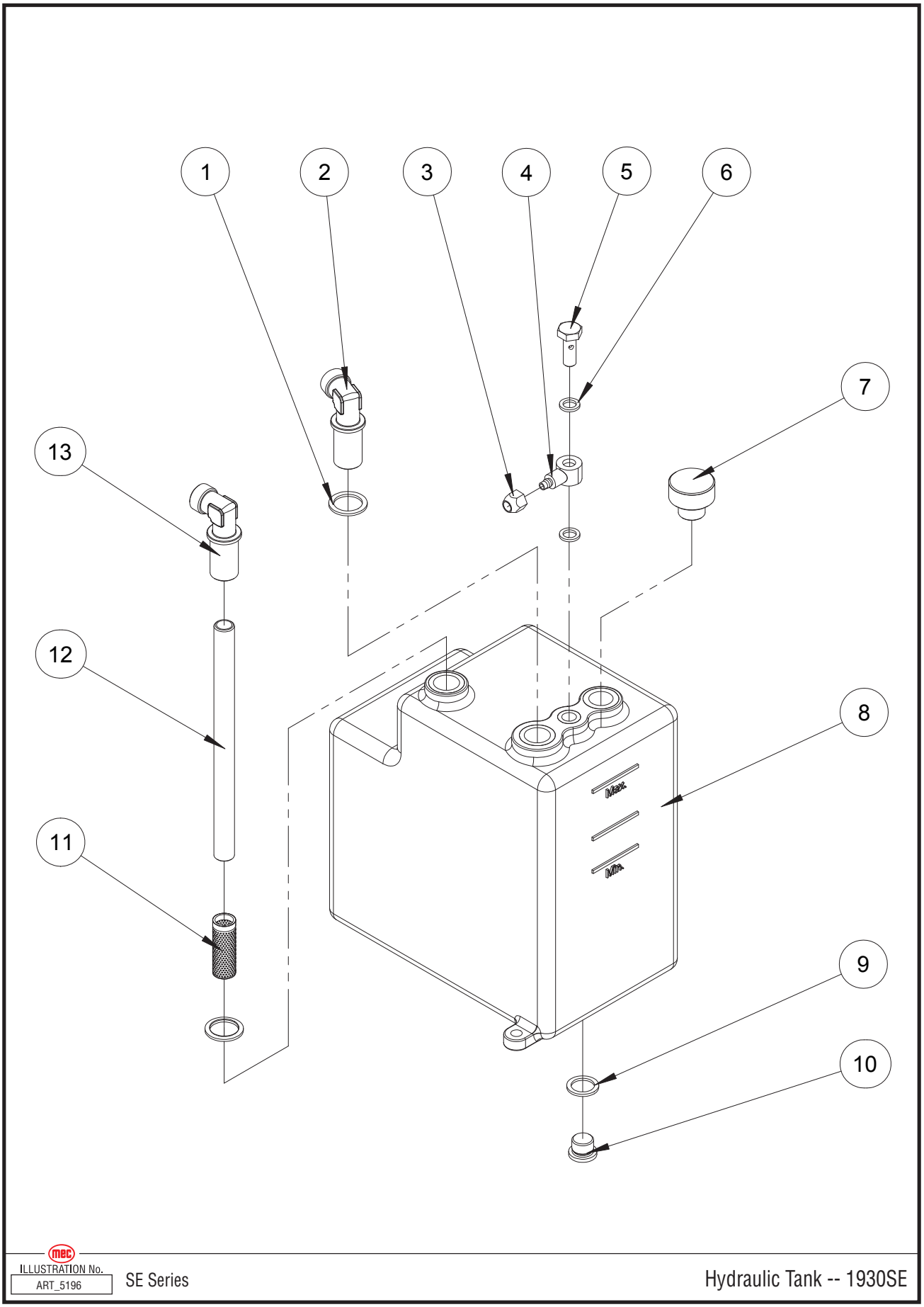


ILLUSTRATION No. ART_5196 SE Series Hydraulic Tank -- 1930SE

Item	Part Number	Description	Qty.
--	41818	Hydraulic Tank Assembly	1
1	41412	Washer 22	2
2	41085	Fitting M22×1.5	1
3	41413	Nut	1
4	41167	Seat	1
5	41166	Bolt	1
6	53049	Washer, M14	1
7	41082	Breather Nut	1
8	41823	Hydraulic Tank	1
9	41412	Washer 18	1
10	41087	Drain Plug	1
11	41824	Filter	1
12	41825	Suction Pipe	1
13	41826	Fitting	1

Hydraulic Tank Assembly - 2632SE, 3346SE, 4046SE, 4555SE

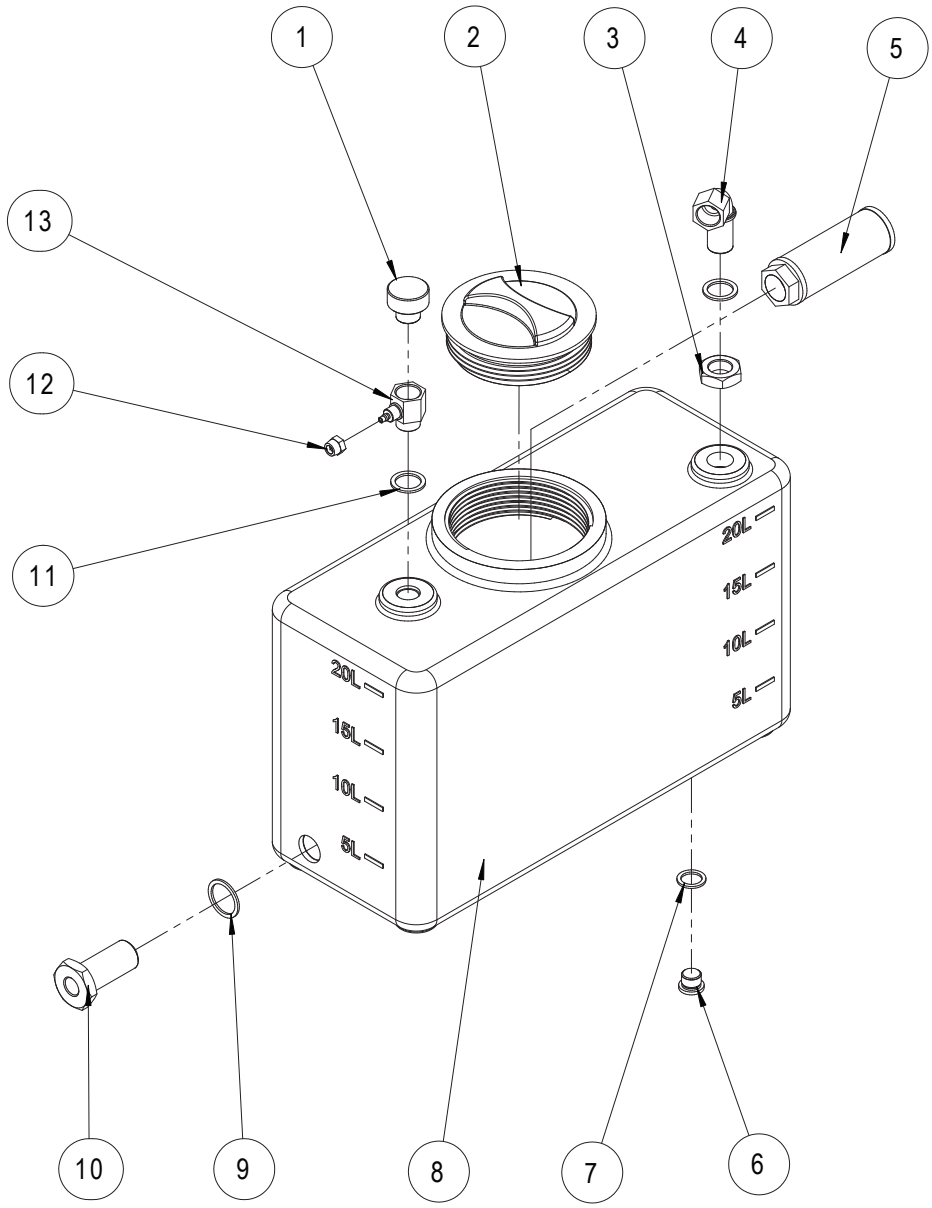


ILLUSTRATION No. ART_5274 SE Series

Hydraulic Tank -- 2632SE, 3346SE, 4046SE, 4555SE

Item	Part Number	Description	Qty.
--	41071	Hydraulic Tank Assembly	1
1	41082	Breather Nut	1
2	41083	Cover	1
3	41028	Nut M22×1.5	1
4	41085	Fitting M22×1.5	1
5	41086	Filter	1
6	41087	Drain Plug	1
7	41412	Washer 18	1
8	41088	Tank	1
9	41428	Washer 27	1
10	41089	Nut	1
11	41412	Washer 22	2
12	41413	Nut	1
13	41090	Seat	1

Motor Controller Assembly - 1930SE

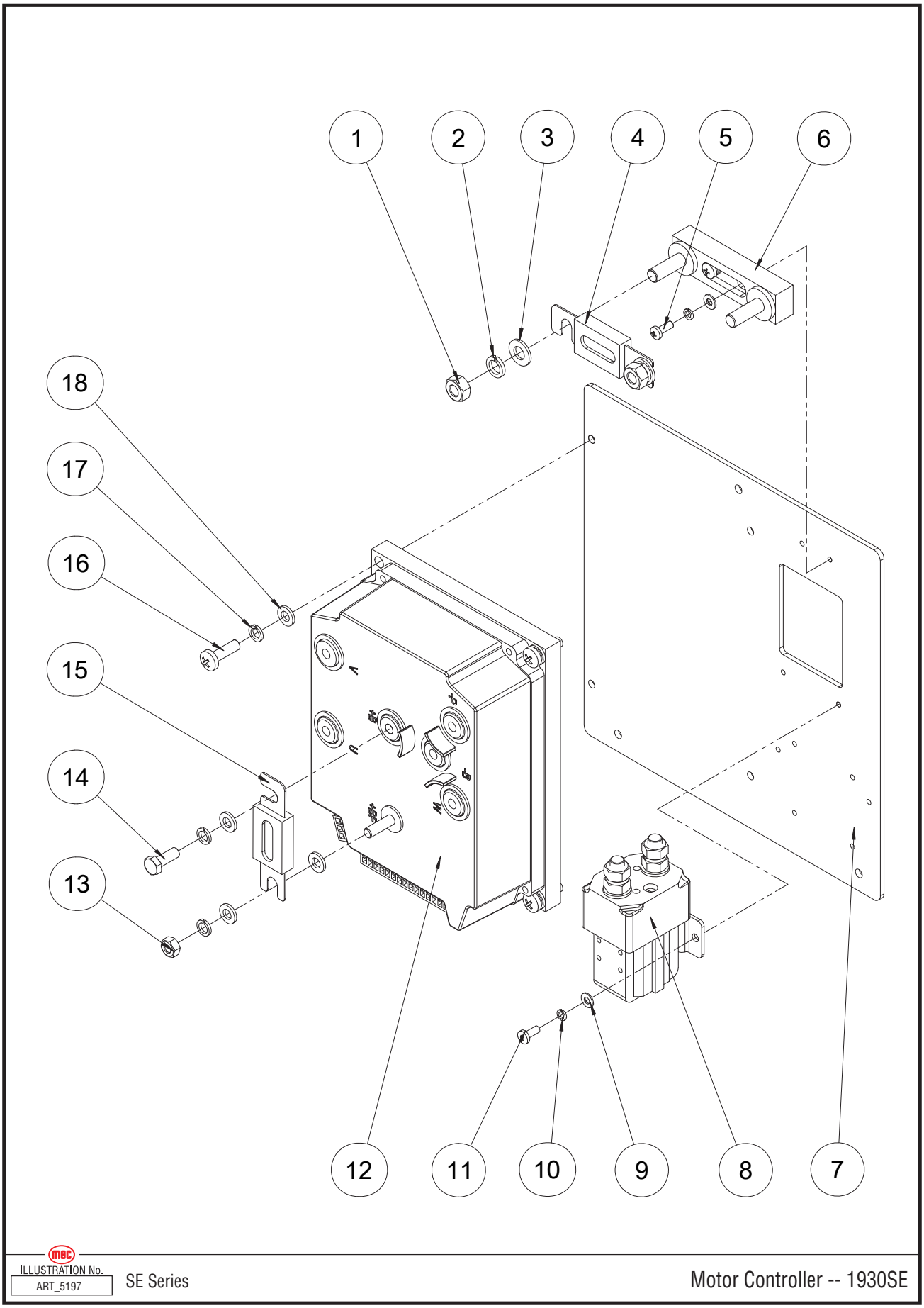


ILLUSTRATION No. ART_5197

SE Series

Motor Controller -- 1930SE

Item	Part Number	Description	Qty.
1	53014	Nut M8	2
2	53055	Washer, M8 Spring	2
3	50001	Washer M8	2
4	41827	Fuse, 250A	1
5	53061	Screw M4×16-H	2
6	41092	Fuse Holder	1
7	41828	Plate	1
8	41331	DC Contactor	1
9	50284	Washer 4	4
10	53062	Washer, M4	4
11	50483	Screw, M4 x 10-H	2
12	41610	Motor Controller	1
13	50047	Nut, M6	1
14	50445	Bolt, M6 x 16	1
15	41586	Fuse, 350A	1
16	53051	Screw, M6 x 16	4
17	53046	Washer, M6 Spring	6
18	50000	Washer, M6	7

Motor Controller Assembly - 2632SE, 3346SE, 4046SE, 4555SE

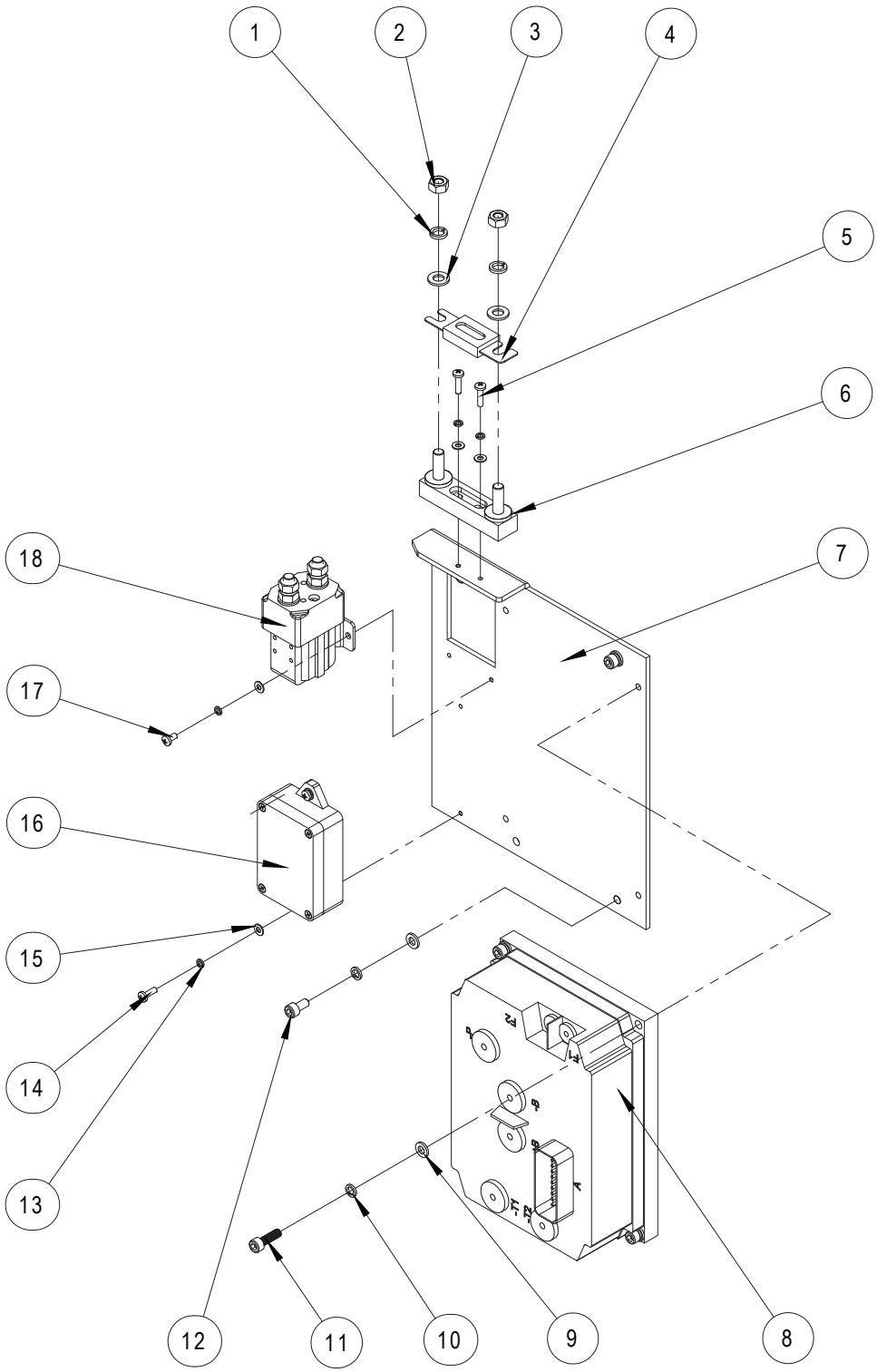


ILLUSTRATION No. ART_5198 SE Series

Motor Controller -- 2632SE, 3346SE, 4046SE, 4555SE

Item	Part Number	Description	Qty.
1	53055	Spring washer 8	2
2	53014	Nut M8	2
3	50001	Washer 8	2
4	41091	Fuse 300A	1
5	53061	Screw M4×16-H	2
6	41092	Fuse Holder	1
7	41427	Mounting Plate	1
8	41093	Motor Controller	1
9	50000	Washer 6	7
10	53046	Spring washer 6	7
11	50028	Screw M6×20	4
12	53058	Screw M6×12	3
13	53062	Spring washer 4	6
14	53034	Screw M4×12-H	2
15	50284	Washer 4	6
16	41094	Brake Module	1
17	53063	Screw M4×8-H	2
18	41331	DC Contactor	1

Limit Switch Assembly

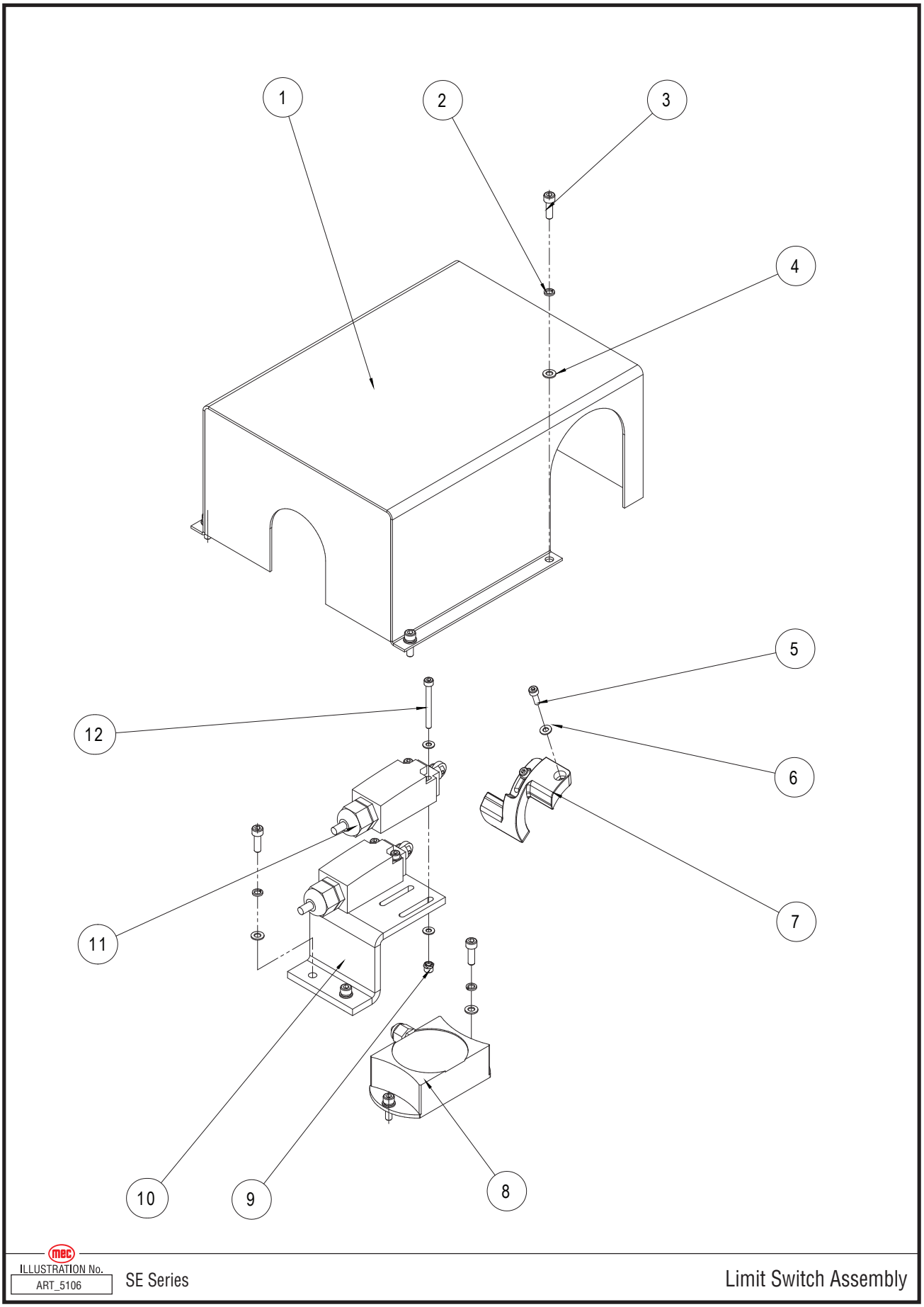


ILLUSTRATION No. ART_5106

SE Series

Limit Switch Assembly

Item	Part Number	Description	Qty.
1	41829	1930SE -- Cover	1
	41096	2632SE, 3346SE, 4046SE, 4555SE -- Cover	1
2	53043	Washer, M5 Spring	8
3	53042	Screw, M5 x 16	8
4	53038	Washer, M5	8
5	50423	Screw, M4 x 12	2
6	50284	Washer, M4	10
7	41611	1930SE -- Signal Plate	
	41097	2632SE, 3346SE, 4046SE, 4555SE -- Signal Plate	1
8	41098	Level Sensor	1
9	50285	Nut, M4	4
10	41612	1930SE -- Mounting Bracket	
	41414	2632SE, 3346SE, 4046SE, 4555SE -- Mounting Bracket	1
11	41036	Limit Switch	2
12	53064	Screw, M4 x 40	4

Pipe Bracket Assembly

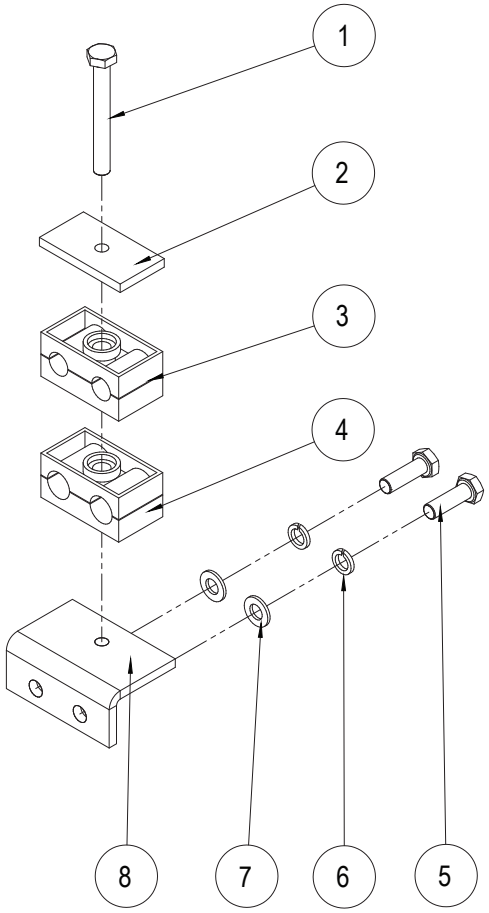


ILLUSTRATION No. ART_5107 SE Series Pipe Bracket Assembly

Item	Part Number	Description	Qty.
--	41435	Pipe Bracket Assembly	1
1	80251	Bolt, M8 x 65	1
2	41415	Base plate	1
3	41416	Oil pipe clamp 212.7	1
4	41417	Oil pipe clamp 215	1
5	50418	Bolt, M8 x 25	2
6	53055	Washer, M8 Spring	2
7	50001	Washer, M8	2
8	41425	Bracket	1

Ground Controls Assembly - 1930SE

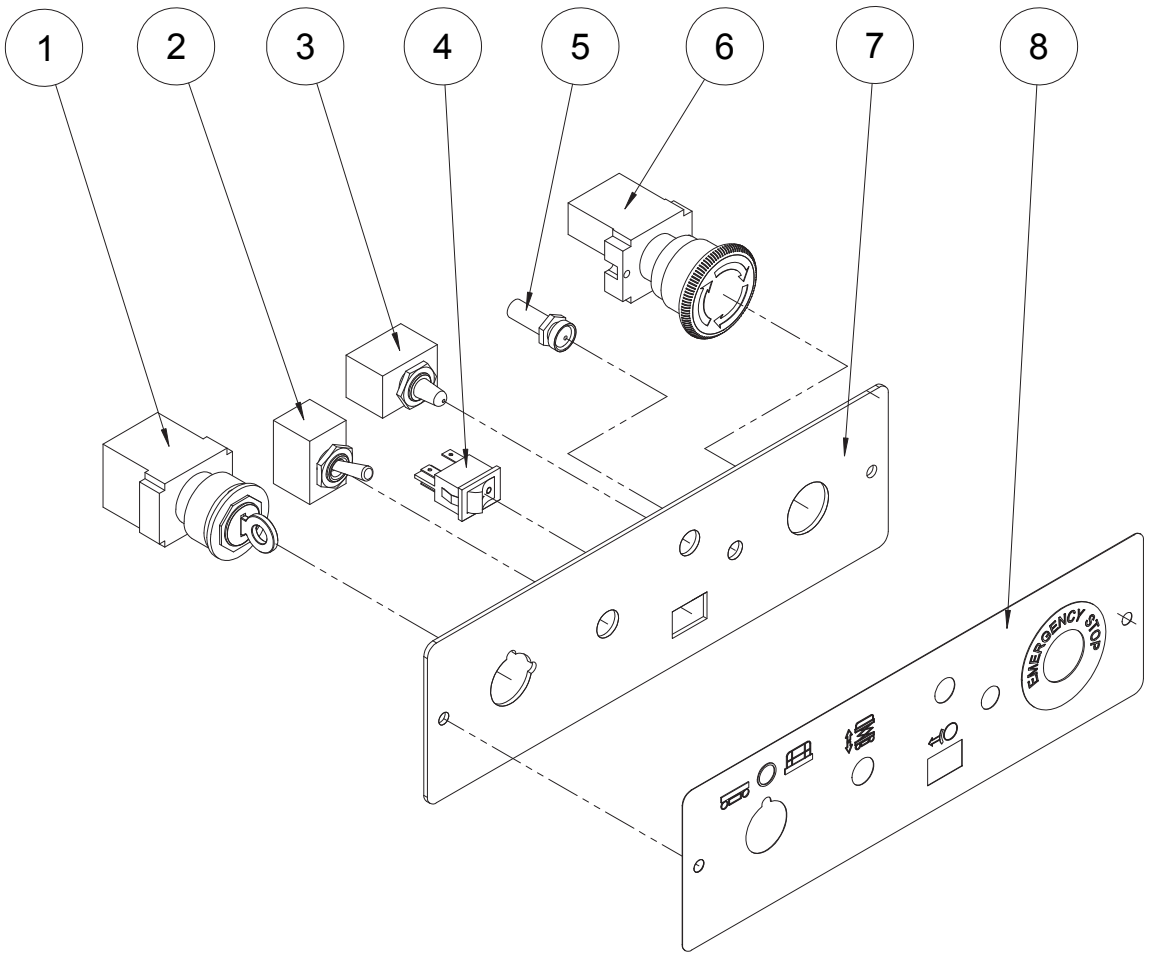


ILLUSTRATION No. ART_5199

SE Series

Ground Control Assembly -- 1930SE

Item	Part Number	Description	Qty.
1	41418	Key Switch	1
--	91574	Key, Spare, 455	--
2	41419	Toggle Switch	1
3	41420	7 Amp Breaker	1
4	42507	Brake Reset Switch	1
5	41421	Indicator	1
6	41422	Emergency Stop	1
7	41423	Panel	1
8	41424	Decal	1

Ground Controls Assembly - 2632SE, 3346SE, 4046SE, 4555SE

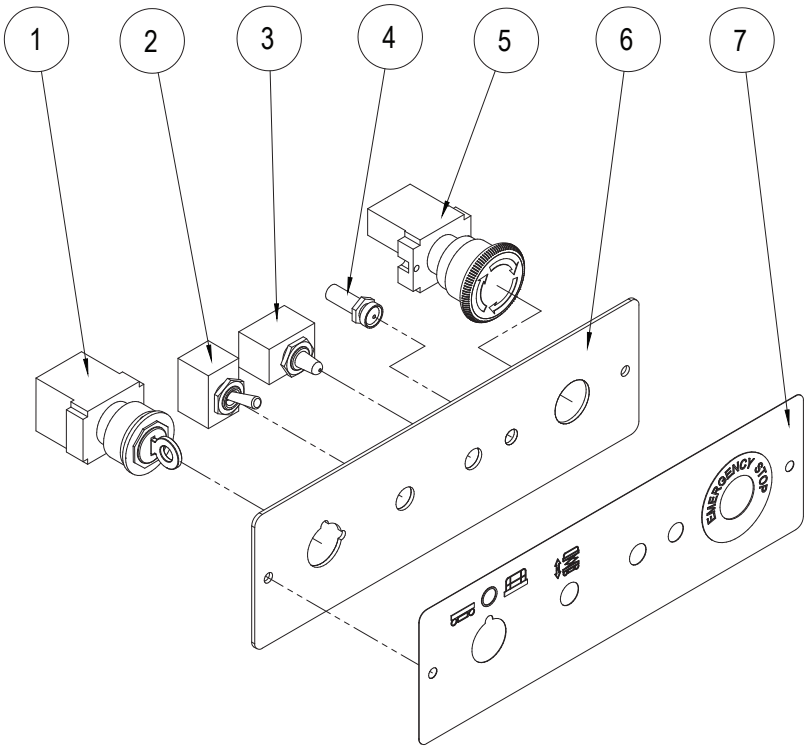


ILLUSTRATION No. ART_5200 SE Series Ground Control Assembly -- 2632SE, 3346SE, 4046SE, 4555SE

Item	Part Number	Description	Qty.
1	41418	Key Switch	1
--	91574	Key, Spare, 455	--
2	41419	Toggle Switch	1
3	41420	7 Amp Breaker	1
4	41421	Indicator	1
5	41422	Emergency Stop	1
6	41423	Panel	1
7	41424	Decal	1

Scissor Installation

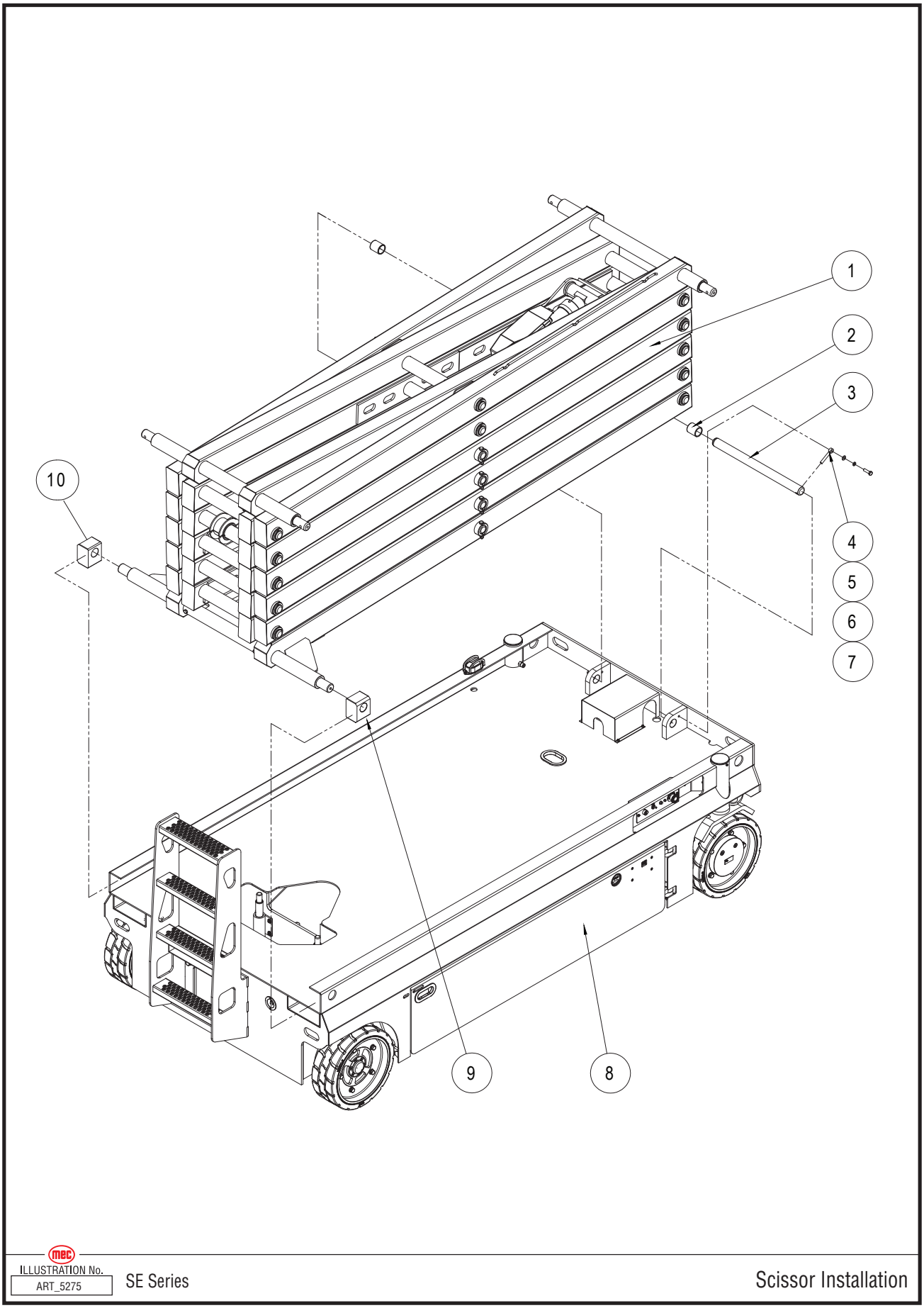
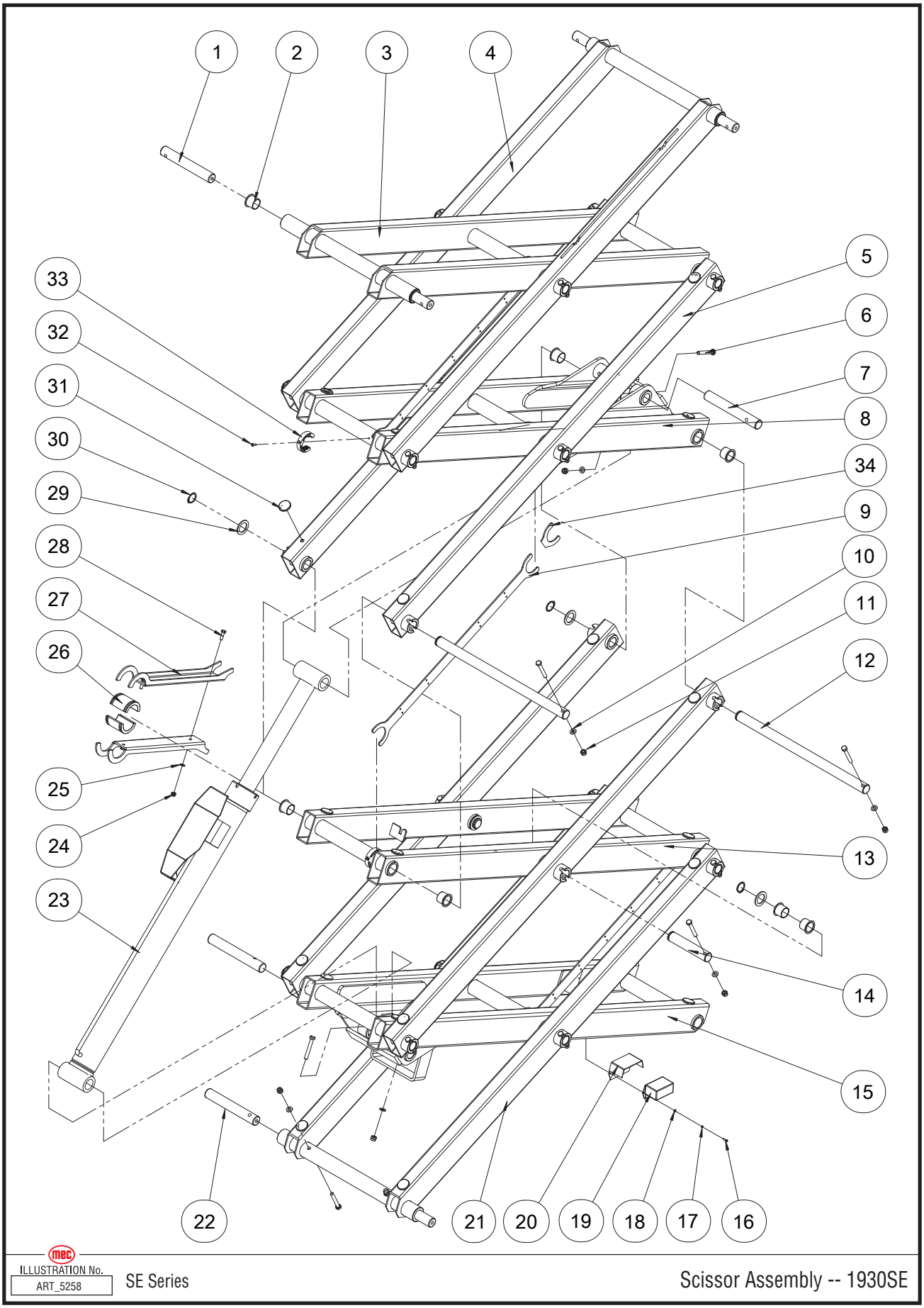


ILLUSTRATION No. ART_5275 SE Series Scissor Installation

Item	Part Number	Description	Qty.
1	41708	1930SE -- Scissor Assembly	1
	41468	2632SE -- Scissor Assembly	1
	41470	3346SE -- Scissor Assembly	1
	41473	4046SE -- Scissor Assembly	1
	41474	4555SE -- Scissor Assembly (Up To Serial #16800800)	1
	42587	4555SE -- Scissor Assembly (From Serial #16800801)	1
2	41103	Bearing	2
3	41432	Fixed Axle	1
4	41709	1930SE -- Axle 10×70	1
	41431	2632SE, 3346SE, 4046SE, 4555SE -- Axle 10×80	1
5	50002	Washer 10	1
6	53054	Spring washer 10	1
7	50332	Bolt M10×35	1
8	41711	1930SE -- Chassis Assembly	1
	41712	2632SE -- Chassis Assembly	1
	41713	3346SE -- Chassis Assembly	1
	41714	4046SE -- Chassis Assembly	1
	41476	4555SE -- Chassis Assembly	1
9	41710	1930SE -- Bottom Slider	2
	41101	2632SE, 3346SE, 4046SE, 4555SE -- Bottom Slider	2

Scissor Assembly - 1930SE



Item	Part Number	Description	Qty.
1	41685	Top Slide Pin	4
2	41706	Bearing	26
3	41633	Inner Arm 4	1
4	41698	Outer Arm 4	1
5	41695	Inner Arm 2	2
6	50022	Bolt, M10 x 70	15
7	41687	Cylinder Pin	2
8	41697	Inner Arm 3	1
9	41690	Cable Plate	3
10	50002	Washer, M10	15
11	50049	Nut, M10 Nylock	15
12	41686	Pin	9
13	41696	Inner Arm 2	1
14	41689	Pin	2
15	41694	Inner Arm 1	1
16	53034	Screw, M4 x 12	2
17	53062	Washer, M4 Spring	2
18	50284	Washer, M4	2
19	41684	Sensor	1
20	41111	Sensor Cover	1
21	41693	Outer Arm 1	1
22	41692	Base Slide Pin	2
23	REF	Lower Lift Cylinder -- See Section 20 - Hydraulics	1
24	50048	Nut, M8 Nylock	2
25	50001	Washer, M8	2
26	41616	Bushing	2
27	41615	Safety Arm	2
28	50031	Bolt, M8 x 25	2
29	41688	Washer, M8	11
30	41707	Snap Ring	11
31	41114	Block	24
32	53042	Screw, M5 x 16	6
33	41691	Collar	6
34	44533	Bushing Insert	2

REF - Reference

Scissor Assembly - 2632SE

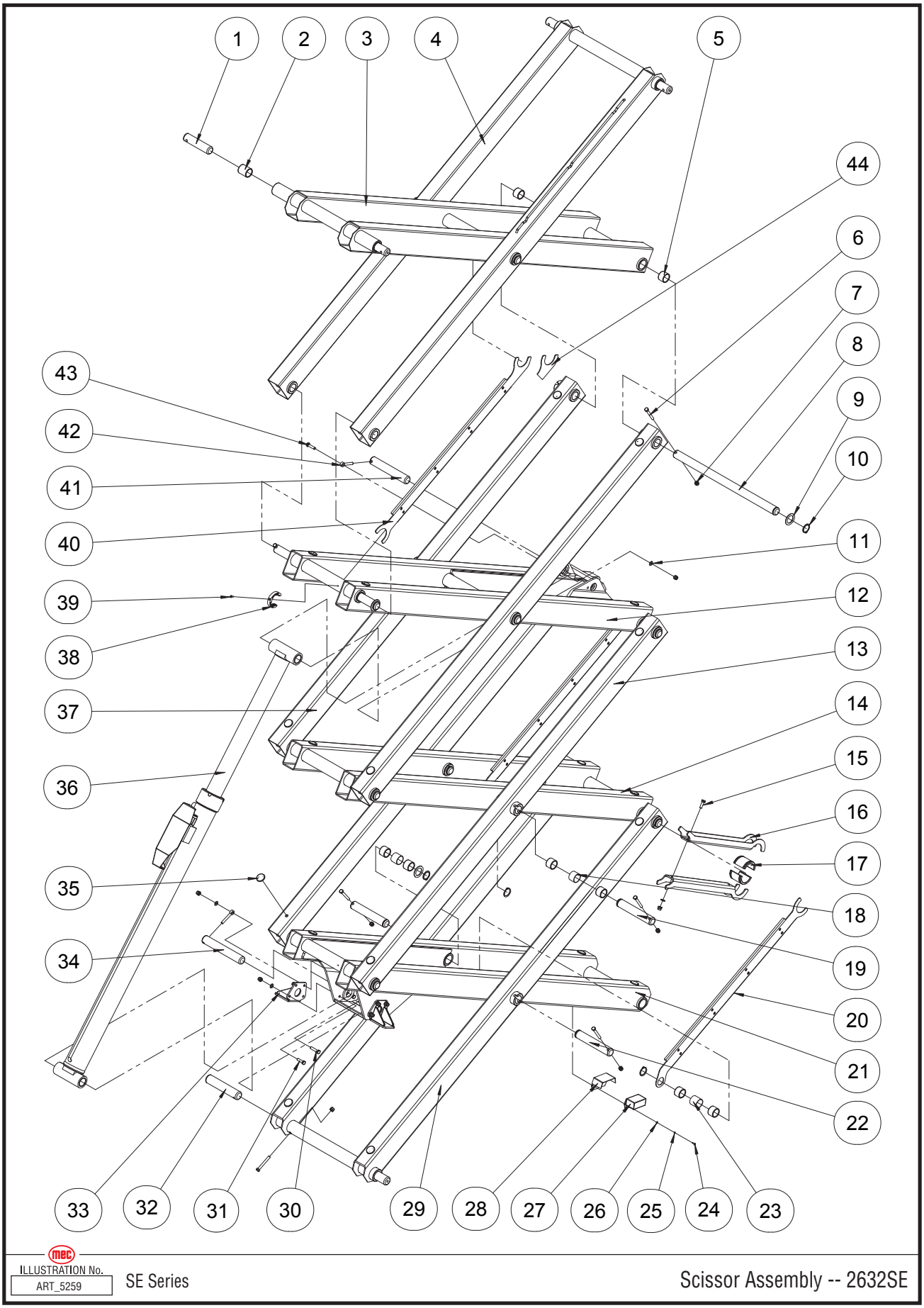
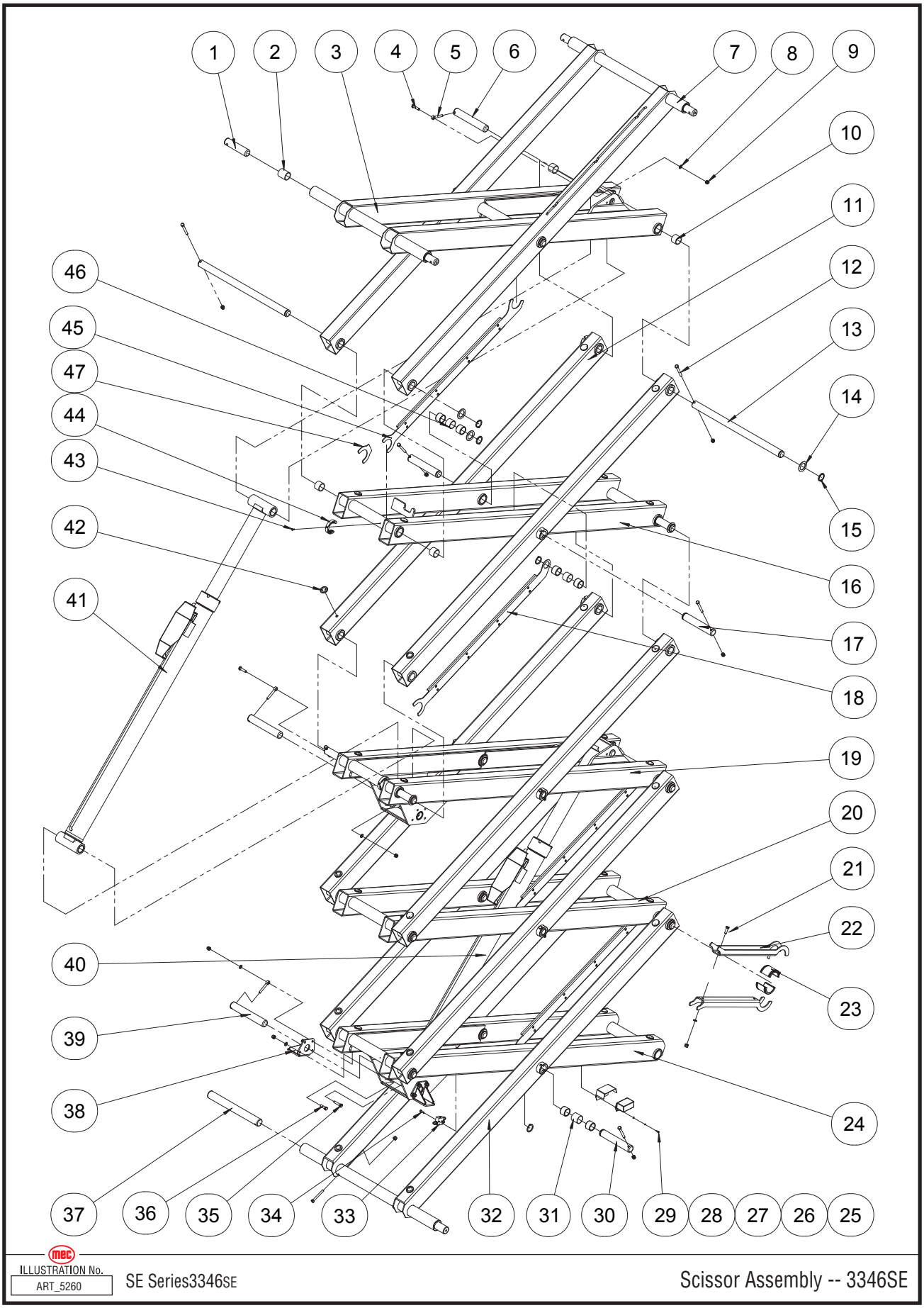


ILLUSTRATION No. ART_5259 SE Series Scissor Assembly -- 2632SE

Item	Part Number	Description	Qty.
1	41102	Pin	4
2	41103	Bearing	4
3	41492	Inner Arm 4	1
4	41478	Outer Arm 4	1
5	41105	Bearing	24
6	50024	Bolt, M10 x 80	14
7	50049	Nut, M10 Nylock	25
8	41479	Pin	8
9	41480	Thrust Washer	10
10	41481	Snap Ring	12
11	50002	Washer, M10	11
12	41495	Inner Arm 3	1
13	41489	Outer Arm 2	1
14	41490	Inner Arm 2	1
15	50325	Bolt, M10 x 30	2
16	41108	Safety Arm	2
17	41109	Bushing	2
18	41116	Spacer Sleeve	2
19	41491	Pin	2
20	41482	Cable Plate	2
21	41484	Inner Arm 1	1
22	41485	Pin	2
23	41487	Spacer	2
24	53034	Screw M4 x 12	2
25	53062	Washer, M4 spring	2
26	50284	Washer, M4	2
27	41110	Sensor	1
28	41111	Sensor Cover	1
29	41483	Outer Arm 1	1
30	50515	Bolt, M10 x 45	1
31	50332	Bolt, M10 x 35	7
32	41486	Pin	2
33	41113	Pothole Pusher	2
34	41498	Pin	1
35	41114	Block	24
36	REF	Lower Loft Cylinder -- See Section 20 - Hydraulics	1
37	41499	Outer Arm 3	1
38	41115	Collar	4
39	53042	Screw, M5 x 16	4
40	41117	Cable Plate	1
41	41104	Cylinder Pin	1
42	41431	Pin	2
43	50332	Bolt, M10 x 35	1
44	44534	Bushing Insert	3

REF - Reference

Scissor Assembly - 3346SE



Item	Part Number	Description	Qty.
1	41102	Pin	4
2	41103	Bearing	4
3	41705	Inner Arm 5	1
4	50332	Bolt, M10 x 35	3
5	41431	Pin	4
6	41104	Cylinder Pin	3
7	41704	Outer Arm 5	1
8	50002	Washer, M10	13
9	50049	Nut, M10 Nylock	32
10	41105	Bearing	34
11	41489	Outer Arm 2	3
12	50024	Bolt, M10 x 80	19
13	41479	Pin	9
14	41480	Thrust Washer	14
15	41481	Snap Ring	16
16	41502	Inner Arm 4	1
17	41491	Pin	4
18	41482	Cable Plate	3
19	41503	Inner Arm 3	1
20	41490	Inner Arm 2	1
21	50325	Bolt, M10 x 30	2
22	41108	Safety Arm	2
23	41109	Bushing	2
24	41484	Inner Arm 1	1
25	53034	Screw M4 x 12	2
26	50284	Washer, M4	2
27	53062	Washer, M4 spring	2
28	41110	Sensor	1
29	41111	Sensor Cover	1
30	41485	Pin	4
31	41487	Spacer	4
32	41497	Outer Arm 1	1
33	41112	Manifold	1
34	50386	Screw, M6 x 25	2
35	50036	Bolt, M10 x 50	1
36	50035	Bolt, M10 x 40	7
37	41504	Pin	2
38	41113	Pothole Pusher	2
39	41498	Pin	1
40	REF	Lower Lift Cylinder -- See Section 20 - Hydraulics	1
41	REF	Upper Lift Cylinder -- See Section 20 - Hydraulics	1
42	41114	Block	32
43	53042	Screw, M5 x 16	5
44	41115	Collar	5
45	41117	Cable Plate	1
46	41116	Spacer Sleeve	4
47	44534	Bushing Insert	5

REF - Reference

Scissor Assembly - 4046SE, 4555SE

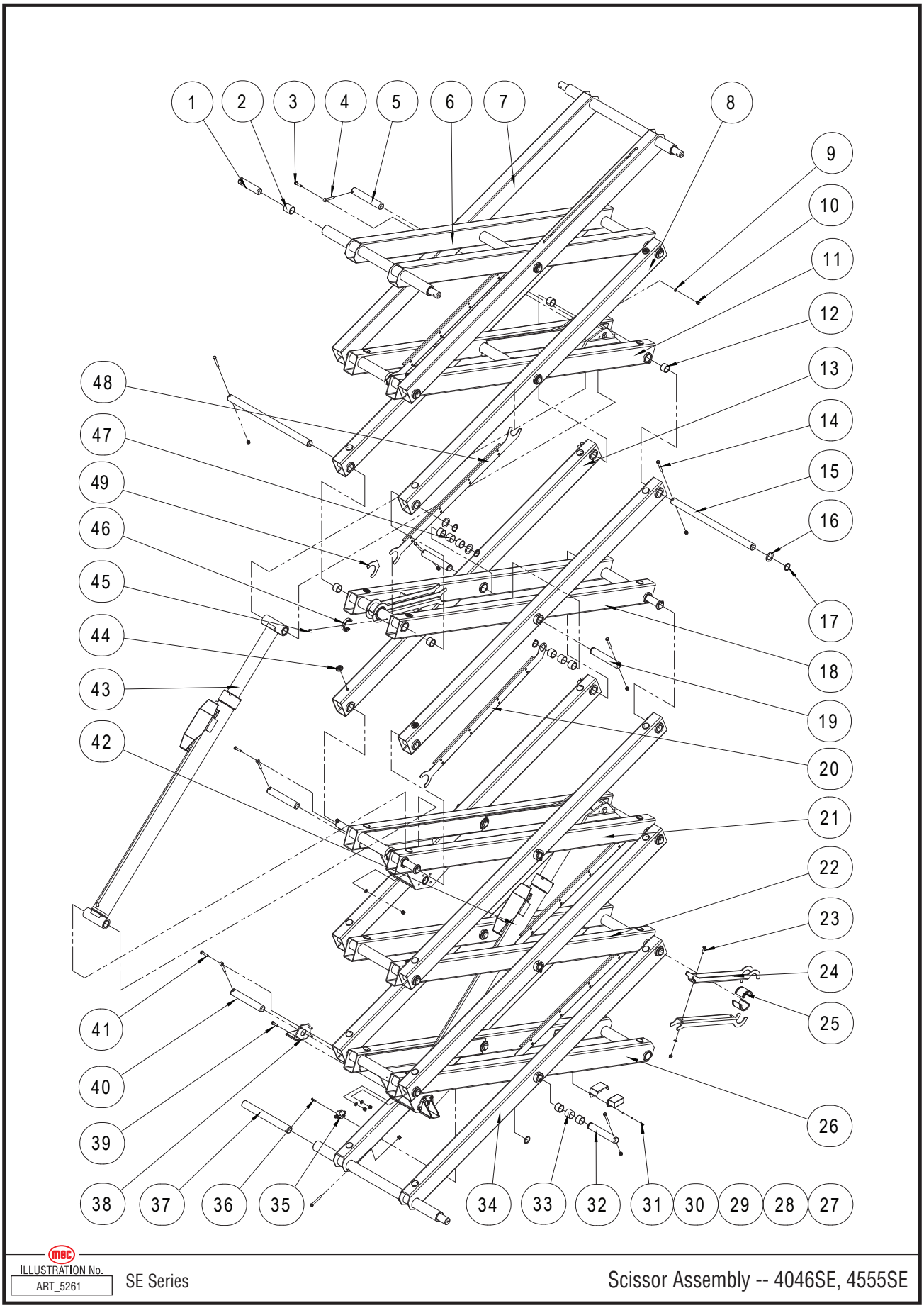


ILLUSTRATION No. ART_5261 SE Series Scissor Assembly -- 4046SE, 4555SE

1	41102	Pin	4
2	41103	Bearing	4
3	50035	Bolt, M10 x 40	3
4	41431	Pin	2
5	41104	Cylinder Pin	1
6	41493	4046SE -- Inner Arm	1
	41506	4555SE -- Inner Arm	1
7	41494	4046SE -- Outer Arm	1
	41507	4555SE -- Outer Arm	1
8	41499	4046SE -- Outer Arm	1
	41508	4555SE -- Outer Arm	1
9	50002	Washer, M10	15
10	50049	Nut, M10 Nylock	37
11	41495	4046SE -- Inner Arm	1
	41509	4555SE -- Inner Arm (Up To Serial #16800800)	1
	42583	4555SE -- Inner Arm (From Serial #16800801)	1
12	41105	Bearing	40
13	41489	4046SE -- Outer Arm	1
	41510	4555SE -- Outer Arm	1
14	50024	Bolt, M10 x 80	22
15	41479	Pin	12
16	41480	Thrust Washer	17
17	41481	Snap Ring	20
18	41502	4046SE -- Inner Arm	1
	41511	4555SE -- Inner Arm	1
19	41491	Pin	2
20	41482	4046SE -- Cable Plate	1
	41107	4555SE -- Cable Plate	1
21	41503	4046SE -- Inner Arm	1
	41512	4555SE -- Inner Arm (Up To Serial #16800800)	1
	42582	4555SE -- Inner Arm (From Serial #16800801)	1
22	41490	4046SE -- Inner Arm	1
	41513	4555SE -- Inner Arm	1
23	50325	Bolt, M10 x 30	2
24	41108	Safety Arm	2
25	41109	Bushing	2
26	41484	4046SE -- Inner Arm	1
	41514	4555SE -- Inner Arm (Up To Serial #16800800)	1
	42581	4555SE -- Inner Arm (From Serial #16800801)	1
27	53034	Screw M4 x 12	2
28	50284	Washer, M4	2
29	53062	Washer, M4 spring	2
30	41110	Sensor	1
31	41111	Sensor Cover	1
32	41485	Pin	2
33	41487	Spacer	2

34	41497	4046SE -- Outer Arm	1
	41515	4555SE -- Outer Arm	1
35	41112	Manifold	1
36	50386	Screw, M6 x 25	2
37	41486	Pin	2
38	41113	Pothole Pusher	2
39	50035	Bolt, M10 x 40	7
40	41498	Pin	1
	41104	4555SE Only -- Pin (From Serial #16800801)	1
41	50036	Bolt, M10 x 50	1
42	REF	4046SE - Lower Lift Cylinder - See Section 20	1
	41171	4555SE - Lower Lift Cylinder - See Section 20 - Hydraulics (Up To Serial #16800800)	1
	42580	4555SE - Lower Lift Cylinder - See Section 20 - Hydraulics (From Serial #16800801)	1
43	REF	4046SE - Upper Lift Cylinder -- See Section 20	1
	41163	4555SE - Upper Lift Cylinder -- See Section 20 - Hydraulics (Up To Serial #16800800)	1
	42579	4555SE - Upper Lift Cylinder -- See Section 20 - Hydraulics (From Serial #16800801)	1
44	41114	Block	40
45	53042	Screw, M5 x 16	7
46	41115	Collar	7
47	41116	Spacer Sleeve	4
48	41117	4046SE -- Cable Plate	1
	41118	4555SE -- Cable Plate	1
--	53304	HHCS M10-1.50 × 35 Serrated Flange	As Req
--	53305	NHEX M10-1.50 Flange	As Req
49	44534	Bushing Insert	5

REF - Reference
As Req - As Required

Notes

Platform Installation

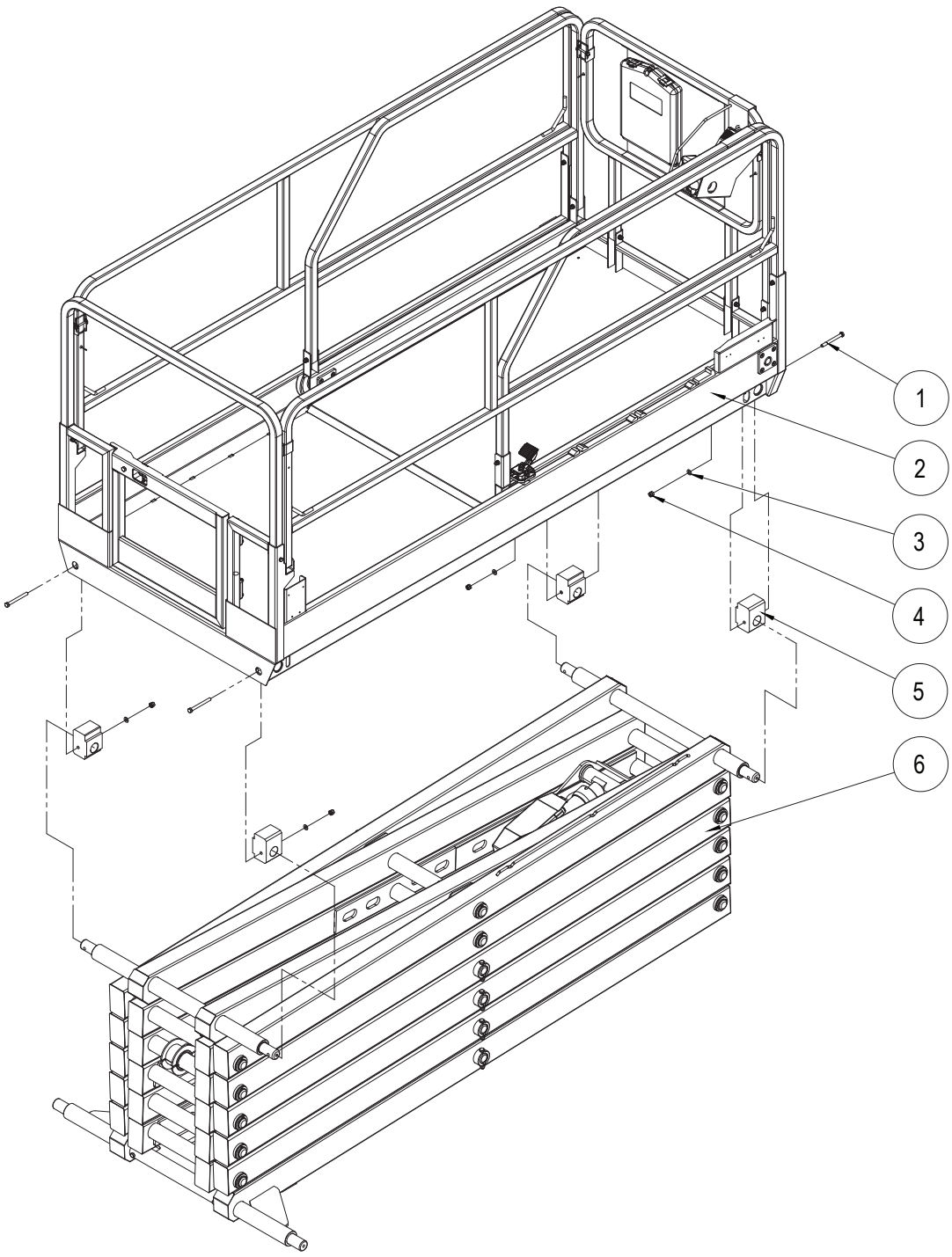


ILLUSTRATION No. ART_5269

SE Series

Platform Installation

Item	Part Number	Description	Qty.
1	50243	Bolt M10×100	4
2	41750	1930SE -- Platform Assembly	1
	41751	2632SE -- Platform Assembly	1
	41752	3346SE -- Platform Assembly	1
	41753	4046SE -- Platform Assembly	1
	41754	4555SE -- Platform Assembly	1
3	50002	Washer 10	4
4	50049	Nut M10	4
5	41519	1930SE -- Slider	4
	41519	2632SE, 3346SE, 4046SE, 4555SE -- Slider	4
6	41708	1930SE -- Scissor Assembly	1
	41468	2632SE -- Scissor Assembly	1
	41470	3346SE -- Scissor Assembly	1
	41473	4046SE -- Scissor Assembly	1
	41474	4555SE -- Scissor Assembly (Up To Serial #16800800)	1
	42587	4555SE -- Scissor Assembly (From Serial #16800801)	1

Main Platform Assembly - 1930SE, ~Serial #164000294

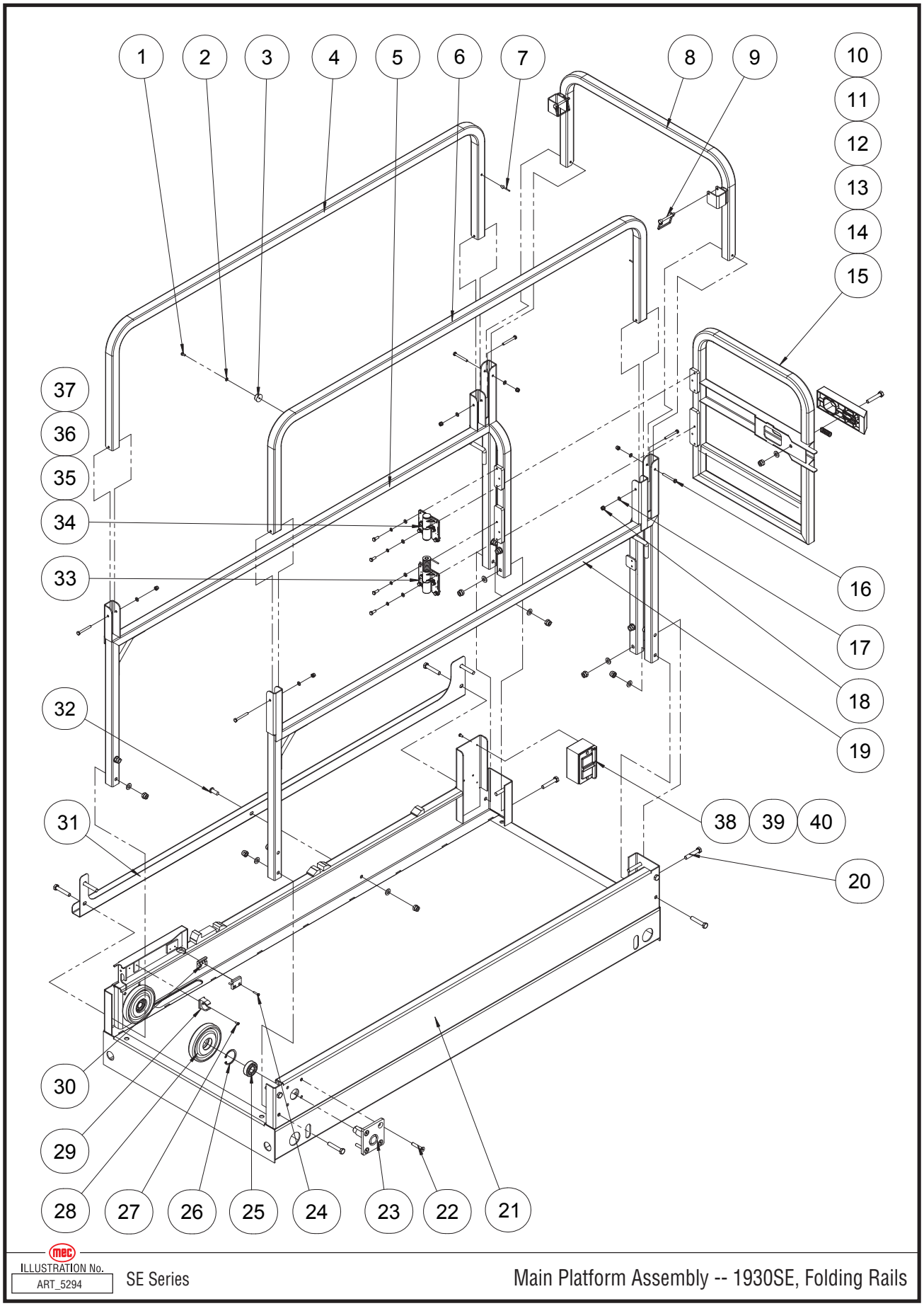


ILLUSTRATION No. ART_5294 SE Series

Main Platform Assembly -- 1930SE, Folding Rails

Item	Part Number	Description	Qty.
1	53056	Screw, M5 x 12	1
2	53038	Washer, M5	1
3	41120	Bumper	1
4	41618	Upper Guardrail, Left	1
5	41620	Lower Left Guardrail	1
6	41617	Upper Guardrail	1
7	41121	Rivet, 4.8 x 16	2
8	41621	Rear Rail	1
9	41357	Spring Pin	2
10	41758	Entry Gate	1
11	50021	Bolt, M10 x 55	1
12	41124	Door Latch	1
13	41125	Spring	1
14	50002	Washer, M10	13
15	50049	Nut, M10	13
16	50125	Bolt, M6 x 50	6
17	50000	Washer, M6	6
18	50047	Nut, M6	6
19	41619	Lower Right Guardrail	1
20	50021	Bolt, M10 x 55	12
21	41759	Platform Weldment	1
22	53080	Screw, FHSC M8 x 45	8
23	41130	Bracket	2
24	53061	Screw, M4 x 16	2
25	41131	Bearing	2
26	41267	Snap Ring	2
27	50321	Screw, M4 x 10	1
28	41133	Roller	2
29	41134	Clip	1
30	41059	Clamp	2
31	41760	Sheet Material Tray	1
32	50116	Screw, M10 x 25	1
33	41128	Lower Hinge	1
34	41127	Upper Hinge	1
35	50000	Washer, M6	12
36	53046	Washer, M6 Spring	12
37	50445	Bolt, M6 x 16	12
38	91598	Outlet Cover	1
39	92007	Outlet, 15A 120V GFCI	1
40	91597	Outlet Box	1
--	53040	Screw, HHSM #8 x .5"	4
--	92008	Strain Relief	1

Platform Extension Assembly - 1930SE, ~Serial #164000294

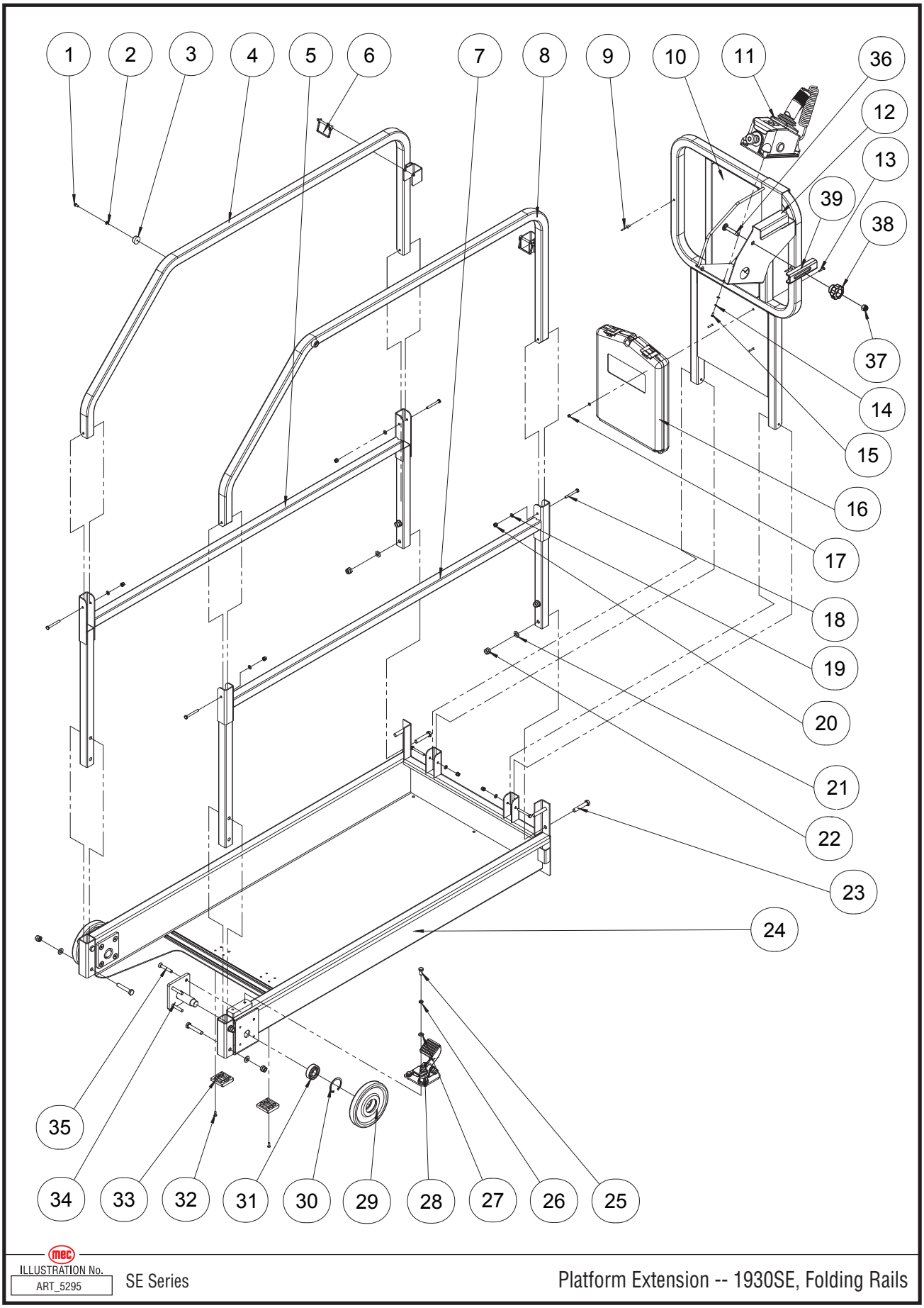


ILLUSTRATION No. ART_5295 SE Series Platform Extension -- 1930SE, Folding Rails

Item	Part Number	Description	Qty.
1	53056	Screw M5×12	2
2	53038	Washer 5	6
3	41120	Bumper	2
4	41678	Upper Left Rail	1
5	41625	Lower Left Rail	1
6	41357	Spring Pin	2
7	41626	Lower Right Rail	1
8	41677	Upper Right Rail	1
9	41121	Rivet	2
10	41627	Front Rail	1
11	41137	Platform Control Assembly	1
12	41764	Platform Control Box Bracket	1
13	53043	Spring Washer 5	4
14	53044	Screw, M5 x 10-H	4
15	53042	Screw M5×16	4
16	8909	Manual Enclosure	1
--	50191	Screw, #10-32 x .5	4
--	50238	Nut, #10-32 Nylock	4
17	50524	Nut M5	4
18	50262	Screw M6 x 50	6
19	50000	Washer, M6	6
20	50047	Nut M6	6
21	50002	Washer, M10	8
22	50049	Nut, M10	8
23	50021	Bolt, M10 x 55	8
24	41628	Platform Weldment	1
25	50030	Bolt, M8 x 20	2
26	50001	Washer, M8	2
27	53055	Spring Washer 8	2
28	41140	Platform Extension Lock Assembly	1
29	41141	Roller	2
30	41358	Snap Ring	2
31	41131	Bearing 6204	2
32	53042	Screw M5×16	8
33	41284	Slide Pad	2
34	41360	Roller bracket	2
35	50016	Screw M8×55	8
36	53248	CARB M08-1.25 × 45	1
37	50048	NNYL M08X1.25 08 ZP Nylon Inse	1
38	42501	Handle	1
39	42500	Locating Plate	1
--	43897	Kit, Upper Control Box Lock	1

Main Platform Assembly - 1930SE, Serial #164000295~

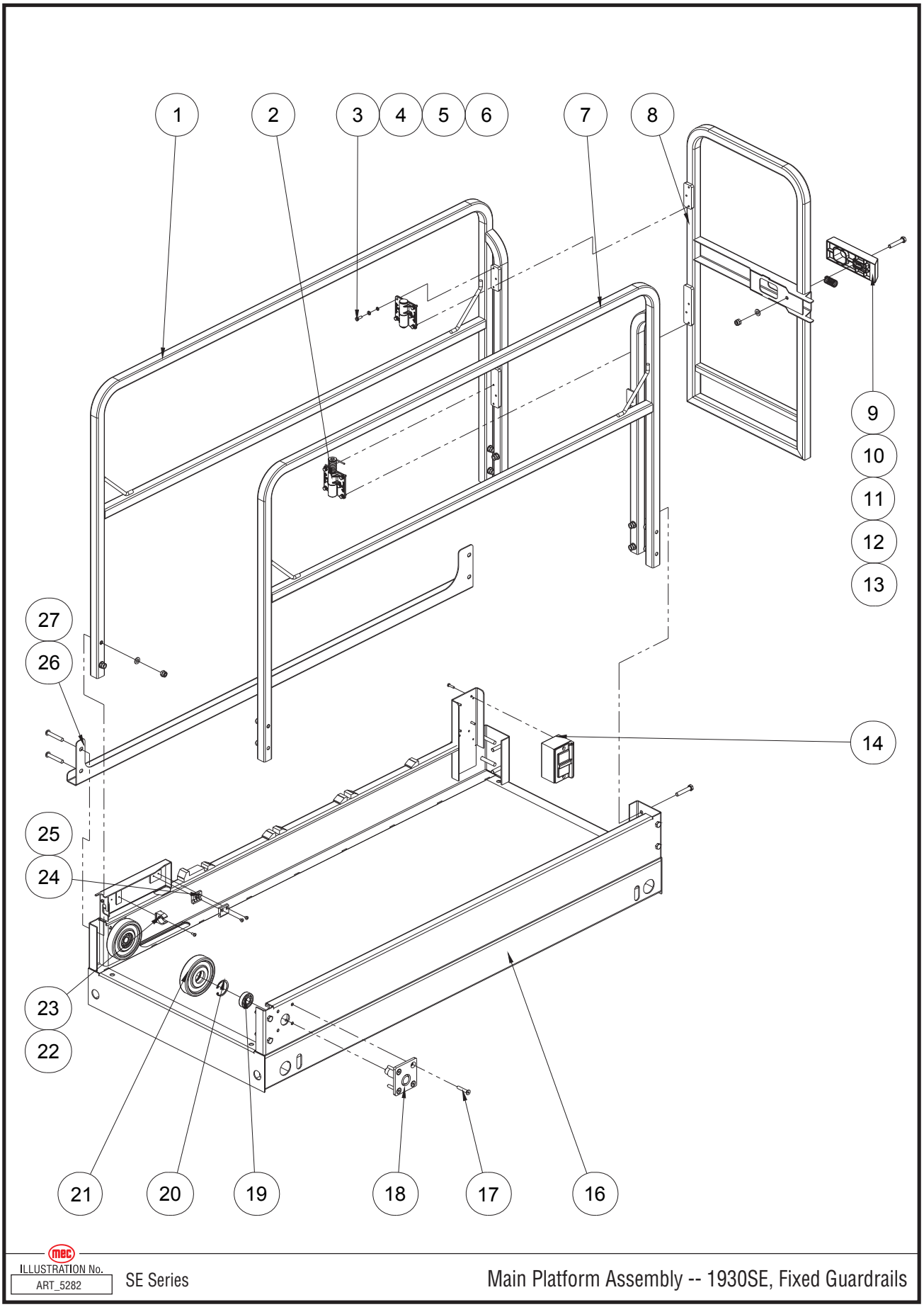


ILLUSTRATION No. ART_5282 SE Series

Main Platform Assembly -- 1930SE, Fixed Guardrails

Item	Part Number	Description	Qty.
1	41756	Right Guardrail	1
2	41128	Lower Hinge	1
3	41127	Upper Hinge	1
4	50000	Washer, M6	12
5	53046	Washer, M6 Spring	12
6	50445	Bolt, M6 x 16	12
7	41757	Left Guardrail	1
8	41758	Gate	1
9	50021	Bolt, M10 x 55	1
10	41124	Door Latch	1
11	41125	Spring	1
12	50002	Washer, M10	13
13	50049	Nut, M10	13
14	91597	Outlet Box	1
--	91598	Outlet Cover	1
--	92007	Outlet, 15A 120V GFCI	1
--	53040	Screw, HHSM #8 x .5"	4
--	92008	Strain Relief	1
15	--	--	--
16	41759	Platform Weldment	1
17	53080	Screw, FHSC M8 x 45	8
18	41130	Bracket	2
19	41131	Bearing	2
20	41267	Snap Ring	2
21	41133	Roller	2
22	50321	Screw, M4 x 10	1
23	41134	Clip	1
24	41059	Clamp	2
25	53061	Screw, M4 x 16	2
26	41760	Sheet Material Tray	1
27	50421	Bolt, M10 x 60	4

Platform Extension Assembly - 1930SE, Serial #164000295~

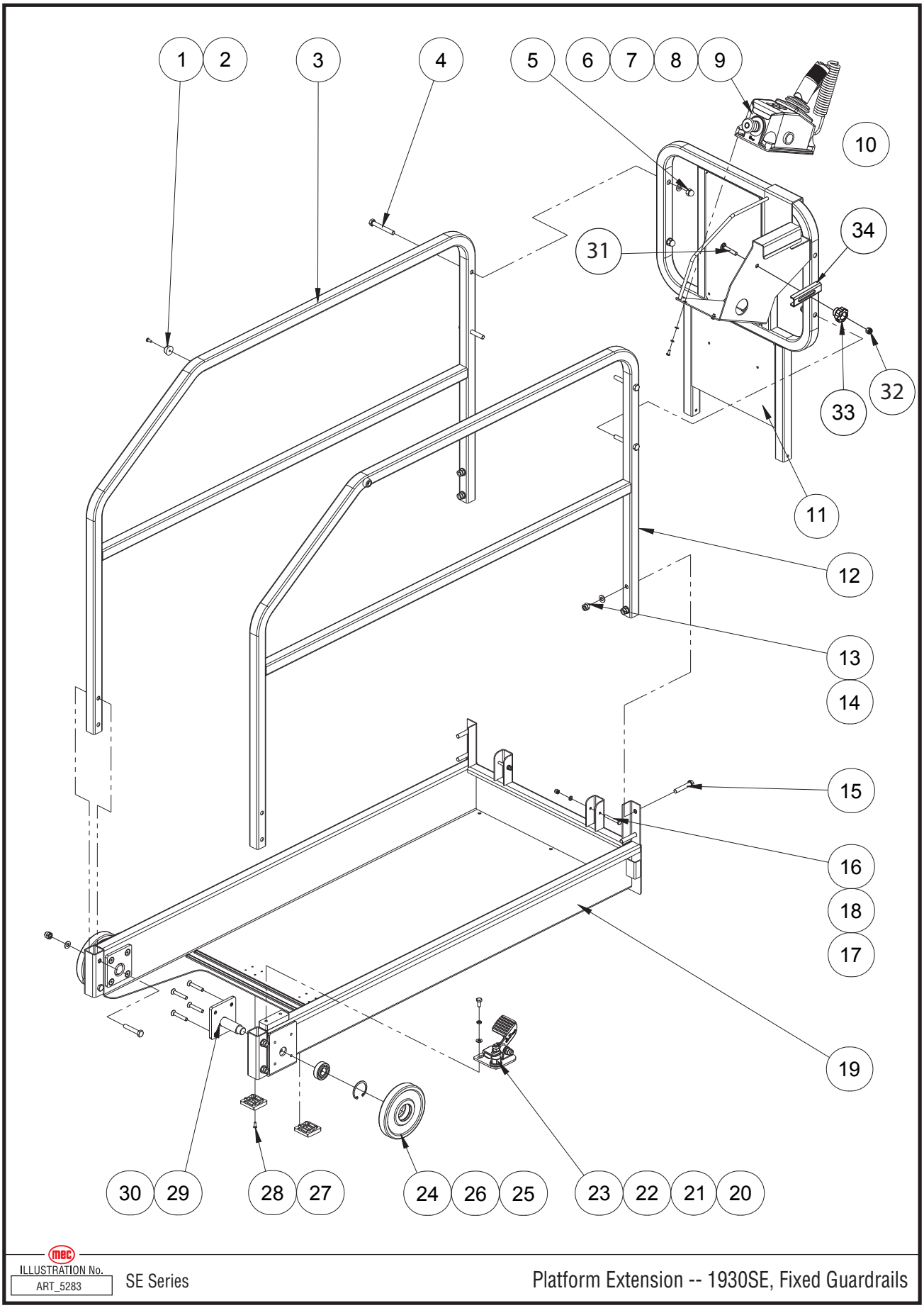


ILLUSTRATION No. ART_5283 SE Series

Platform Extension -- 1930SE, Fixed Guardrails

Item	Part Number	Description	Qty.
1	53056	Screw M5×12	2
2	53038	Washer 5	2
3	41761	Left Rail	1
4	53000	Bolt, M10 x 75	4
5	50049	Nut, M10	4
6	53044	Screw, M5 x 10	4
7	53038	Washer 5	4
8	53043	Spring Washer 5	4
9	41137	Platform Control Assembly	1
10	41764	Control Box Mount Bracket	1
11	41762	Front Rail	1
12	41763	Right Rail	1
13	50002	Washer, M10	13
14	50049	Nut, M10	13
15	50021	Bolt, M10 x 55	8
16	50262	Bolt, M6 x 50	2
17	50000	Washer, M6	2
18	50047	Nut, M6	2
19	41628	Deck Extension	2
20	53059	Bolt, M8 x 16	2
21	53055	Spring Washer 8	2
22	50001	Washer 8	2
23	41140	Platform Extension Lock Assembly	1
24	41141	Roller	2
25	41358	Snap Ring	2
26	41131	Bearing 6204	2
27	41284	Slide Pad	2
28	53045	Screw, M5 x 14	8
29	41360	Roller bracket	2
30	50015	Screw M8×50	8
31	53248	CARB M08-1.25 × 45	1
32	50048	NNYL M08X1.25 08 ZP Nylon Inse	1
33	42501	Handle	1
34	42500	Locating Plate	1
--	43897	Kit, Upper Control Box Lock	1

Main Platform Assembly - 2632SE

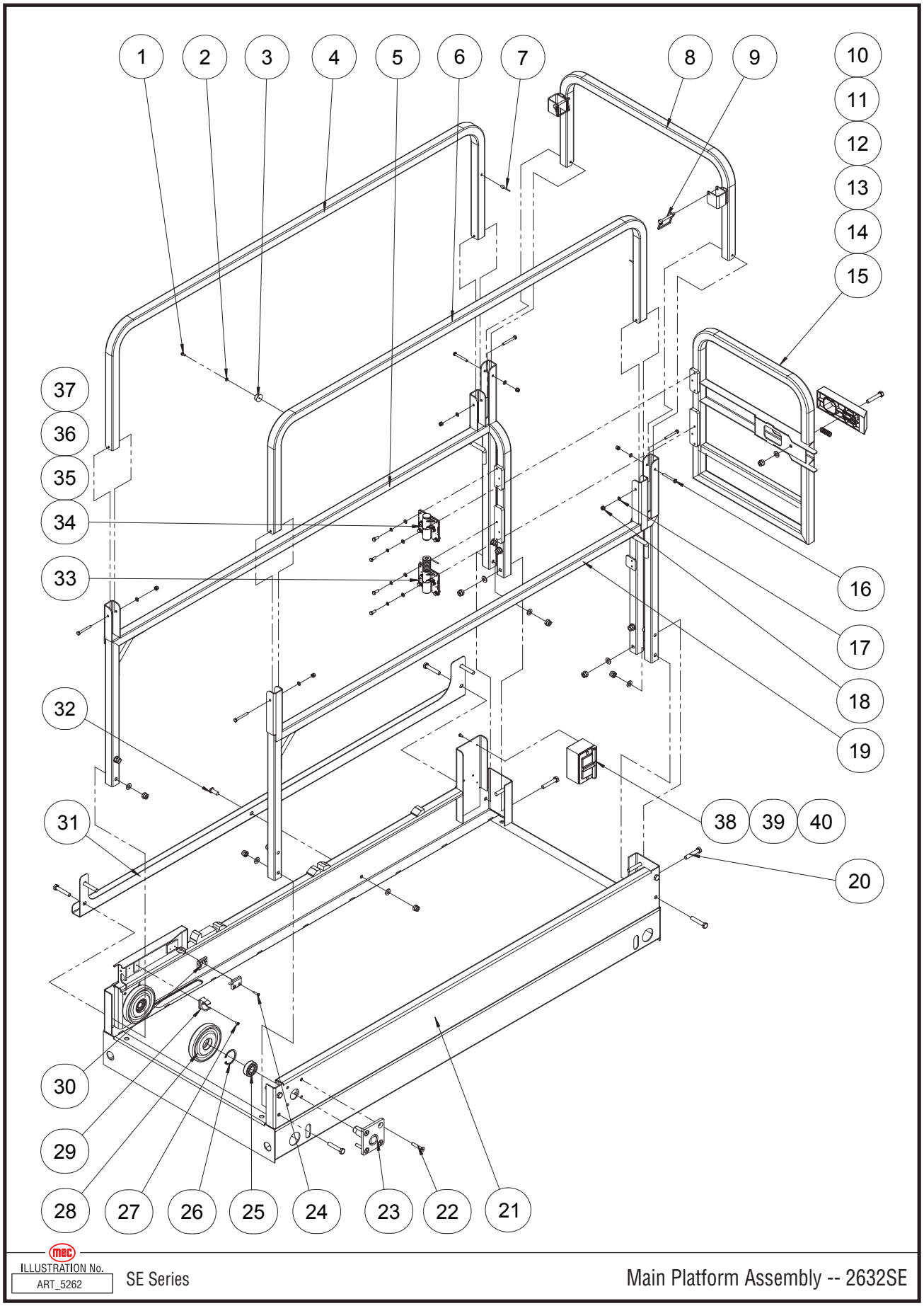


ILLUSTRATION No. ART_5262 SE Series Main Platform Assembly -- 2632SE

Item	Part Number	Description	Qty.
1	53056	Screw, M5 x 12	1
2	53038	Washer, M5	1
3	41120	Bumper	1
4	41520	Upper Guardrail	1
5	41765	Lower Left Guardrail	1
6	41522	Upper Guardrail	1
7	41121	Rivet, 4.8 x 16	2
8	41523	Rear Rail	1
9	41357	Spring Pin	2
10	41588	Entry Gate	1
11	50021	Bolt, M10 x 55	1
12	41124	Door Latch	1
13	41125	Spring	1
14	50002	Washer, M10	13
15	50049	Nut, M10	13
16	50016	Bolt, M8 x 55	6
17	50001	Washer, M8	6
18	50048	Nut, M8	6
19	41526	Lower Right Guardrail	1
20	50421	Bolt, M10 x 60	12
21	41766	Platform Weldment	1
22	53080	Screw, FHSC M8 x 45	8
23	41130	Bracket	2
24	53061	Screw, M4 x 16	2
25	41131	Bearing	2
26	41267	Snap Ring	2
27	50321	Screw, M4 x 10	1
28	41133	Roller	2
29	41134	Clip	1
30	41059	Clamp	2
31	41767	Sheet Material Tray, 2632SE	1
32	50116	Screw, M10 x 25	1
33	41128	Lower Hinge	1
34	41127	Upper Hinge	1
35	50000	Washer, M6	12
36	53046	Washer, M6 Spring	12
37	50445	Bolt, M6 x 16	12
38	91598	Outlet Cover	1
39	92007	Outlet, 15A 120V GFCI	1
40	91597	Outlet Box	1
--	53040	Screw, HHSM #8 x .5"	4
--	92008	Strain Relief	1

Platform Extension Assembly - 2632SE

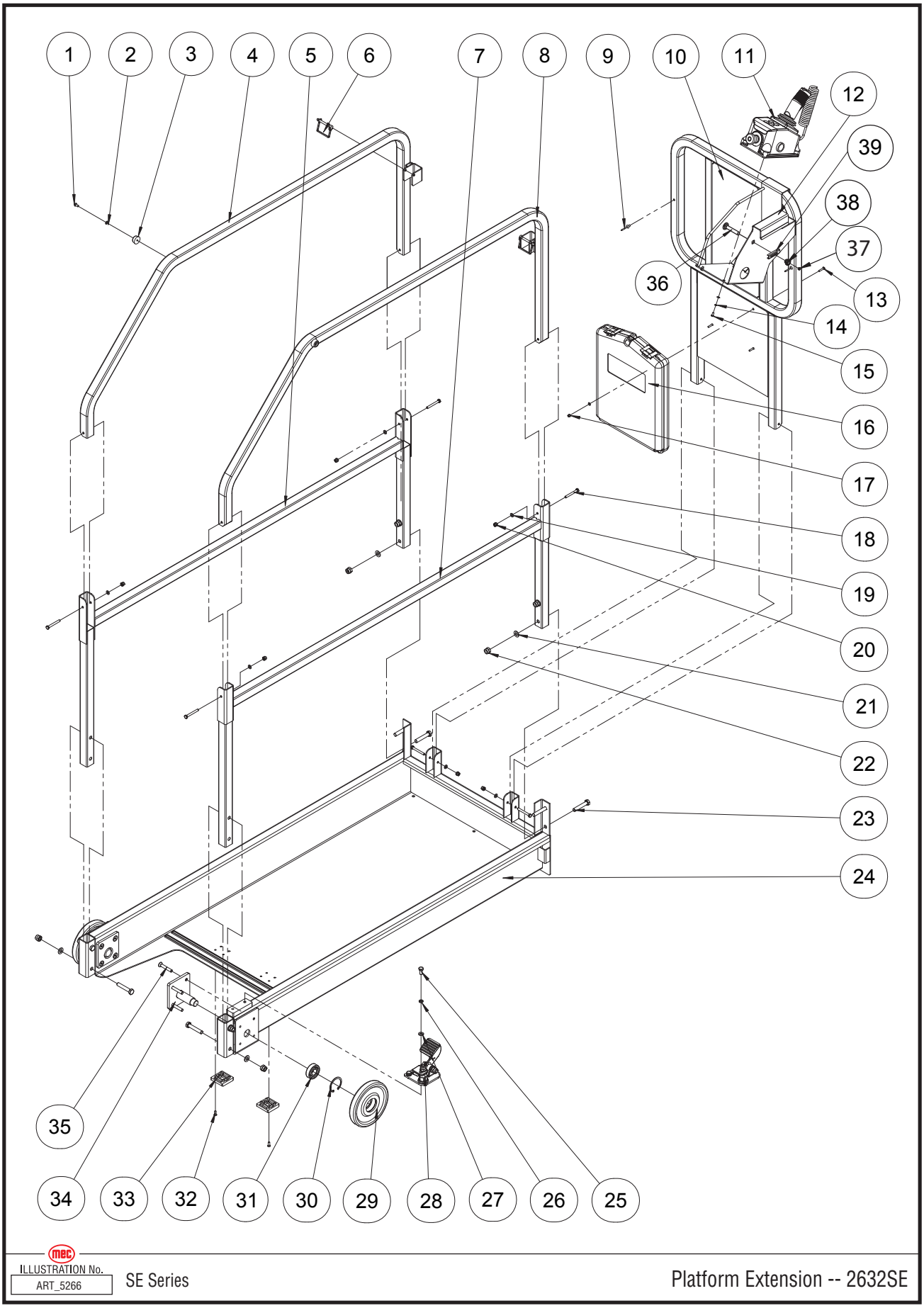


ILLUSTRATION No. ART_5266 SE Series Platform Extension -- 2632SE

Item	Part Number	Description	Qty.
1	53056	Screw M5×12	2
2	53038	Washer 5	6
3	41120	Bumper	2
4	41528	Upper Left Rail	1
5	41529	Lower Left Rail	1
6	41357	Spring Pin	2
7	41532	Lower Right Rail	1
8	41530	Upper Right Rail	1
9	41121	Rivet	2
10	41531	Front Rail	1
11	41137	Platform Control Assembly	1
12	41764	Platform Control Box Bracket	1
13	53043	Spring Washer 5	4
14	53044	Screw, M5 x 10-H	4
15	53042	Screw M5×16	4
16	8909	Manual Enclosure	1
--	50191	Screw, #10-32 x .5	4
--	50238	Nut, #10-32 Nylock	4
17	50524	Nut M5	4
18	50016	Screw M8×55	6
19	50001	Washer 8	6
20	53014	Nut M8	6
21	50002	Washer, M10	8
22	50049	Nut, M10	8
23	50421	Bolt, M10 x 60	8
24	41533	Platform Weldment	1
25	50030	Bolt, M8 x 20	2
26	50001	Washer, M8	2
27	53055	Spring Washer 8	2
28	41140	Platform Extension Lock Assembly	1
29	41141	Roller	2
30	41358	Snap Ring	2
31	41131	Bearing 6204	2
32	53042	Screw M5×16	8
33	41284	Slide Pad	2
34	41360	Roller bracket	2
35	50016	Screw M8×55	8
36	53248	CARB M08-1.25 × 45	1
37	50048	NNYL M08X1.25 08 ZP Nylon Inse	1
38	42501	Handle	1
39	42500	Locating Plate	1
--	43897	Kit, Upper Control Box Lock	1

Main Platform Assembly - 3346SE

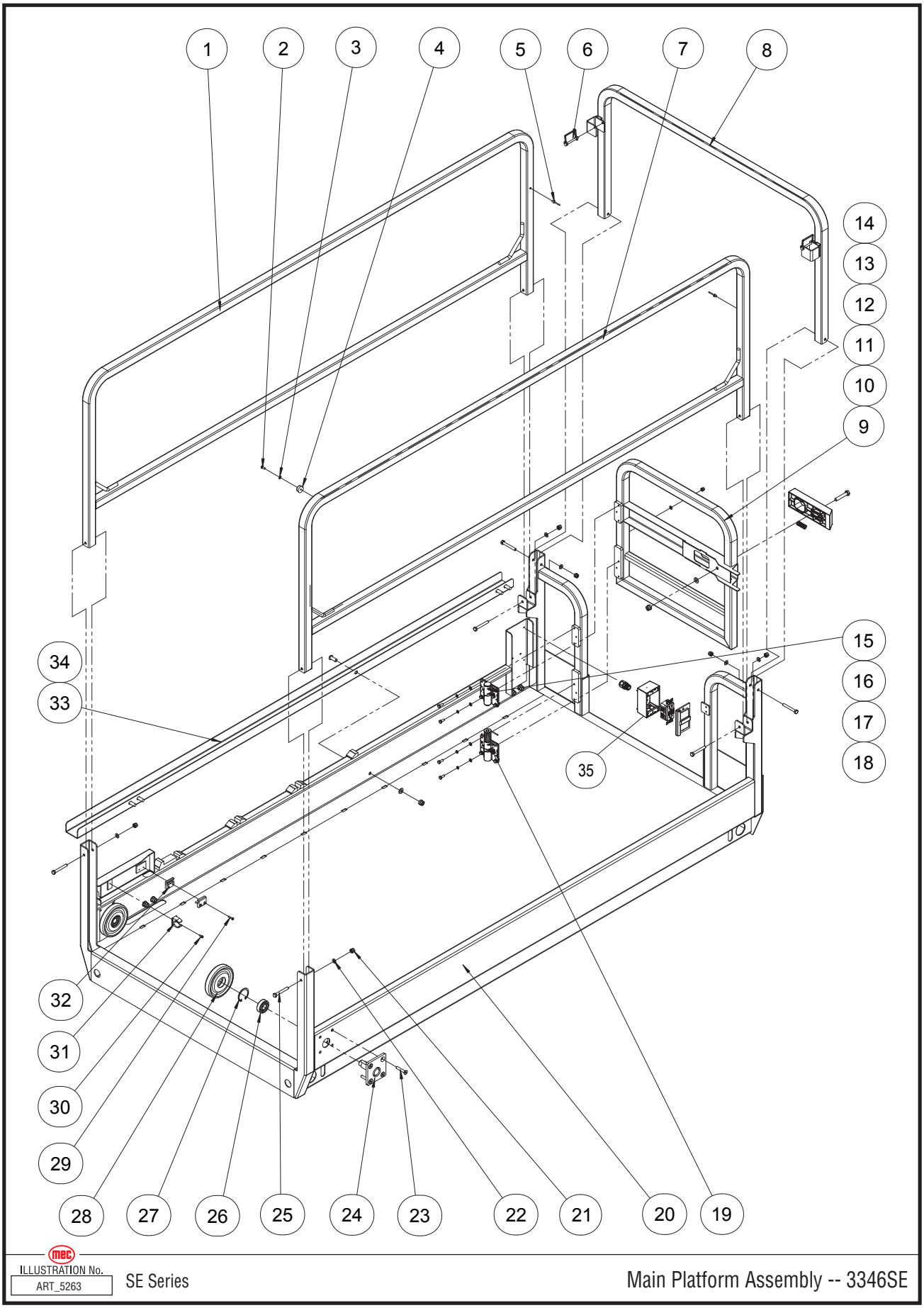


ILLUSTRATION No. ART_5263 SE Series Main Platform Assembly -- 3346SE

Item	Part Number	Description	Qty.
1	41534	Right Guardrail	1
2	53056	Screw, M5 x 12	1
3	53038	Washer 5	1
4	41120	Bumper	1
5	41121	Rivet, 4.8 x 16	2
6	41357	Spring Pin	2
7	41535	Left Guardrail	1
8	43541	Rear Guardrail	1
9	41589	Gate	1
10	50021	Bolt, M10 x 55	1
11	41124	Door Slide	1
12	41125	Spring	1
13	50002	Washer, M10	13
14	50049	Nut, M10	13
15	41127	Upper Hinge	1
16	50000	Washer, M6	12
17	53046	Washer, M6 Spring	12
18	50445	Bolt, M6 x 16	12
19	41128	Lower Hinge	1
20	41768	Platform Weldment	1
21	53014	Nut M8	6
22	50001	Washer 8	6
23	50290	Screw M8×45	8
24	41360	Roller Bracket	2
25	50017	Bolt M8×60	6
26	41359	Bearing 6204	2
27	41527	Snap Ring	2
28	41133	Roller	2
29	53061	Screw M4×16	2
30	50321	Screw M4×10	1
31	41134	Clip	1
32	41059	Wire Grip	2
33	41769	Sheet Tray	1
34	50116	Screw, M10 x 25	5
35	91597	Outlet Box	1
--	91598	Outlet Cover	1
--	92007	Outlet, 15A 120V GFCI	1
--	53040	Screw, HHSM #8 x .5"	4
--	92008	Strain Relief	1

Main Platform Assembly - 4046SE, 4555SE

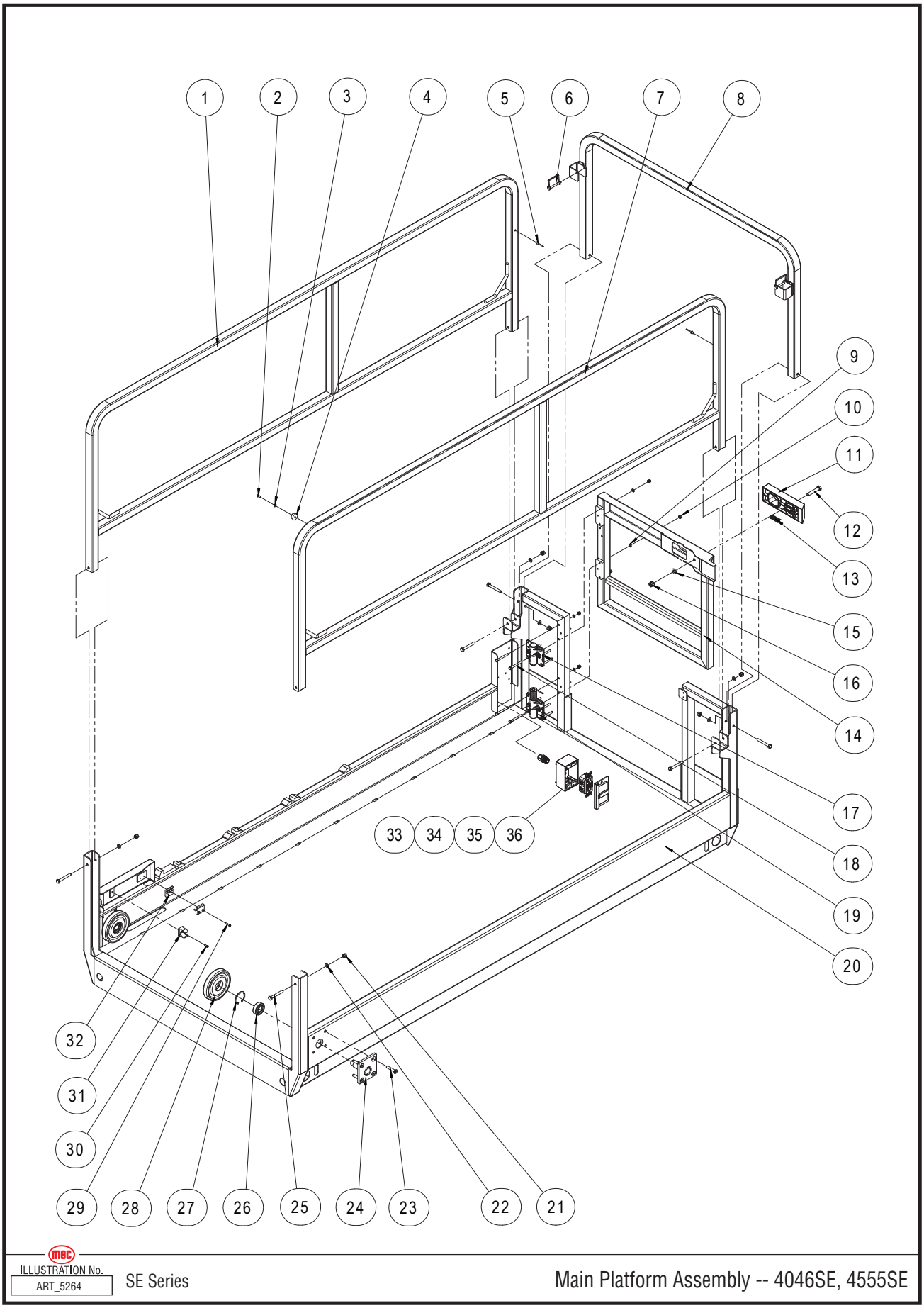


ILLUSTRATION No. ART_5264 SE Series Main Platform Assembly -- 4046SE, 4555SE

Item	Part Number	Description	Qty.
1	41534	4046SE -- Right Guardrail	1
	41119	4555SE -- Right Guardrail	1
2	53056	Screw M5×12-h	5
3	53038	Washer 5	1
4	41120	Bumper	1
5	41121	Rivet	2
6	41357	Spring Pin	2
7	41535	4046SE -- Left Guardrail	1
	41122	4555SE -- Left Guardrail	1
8	41123	4046SE -- Rear Guardrail	1
	41123	4555SE -- Rear Guardrail	1
9	50396	Nut M6	12
10	50000	Washer 6	12
11	41124	Gate Latch	1
12	50021	Bolt M10×55	1
13	41125	Spring	1
14	41126	Gate	1
15	50002	Washer 10	1
16	50053	Nut M10	1
17	41127	Upper Hinge	1
18	50125	Bolt M6×55	12
19	41128	Lower Hinge	1
20	41770	4046SE -- Platform Weldment	1
	41129	4555SE -- Platform Weldment	1
21	53014	Nut M8	6
22	50001	Washer 8	6
23	50290	Screw M8×45	8
24	41360	Roller Bracket	2
25	50017	Bolt M8×60	6
26	41359	Bearing 6204	2
27	41527	Circlip	2
28	41133	Roller	2
29	53061	Screw M4×16	2
30	50321	Screw M4×10	1
31	41134	Clip	1
32	41059	Wire Grip	2
33	91598	Outlet Cover	1
34	92007	Outlet, 15A 120V GFCI	1
35	91597	Outlet Box	1
--	53040	Screw, HHSM #8 x .5"	4
36	92008	Strain Relief	1

Platform Extension Assembly - 3346SE, 4046SE, 4555SE

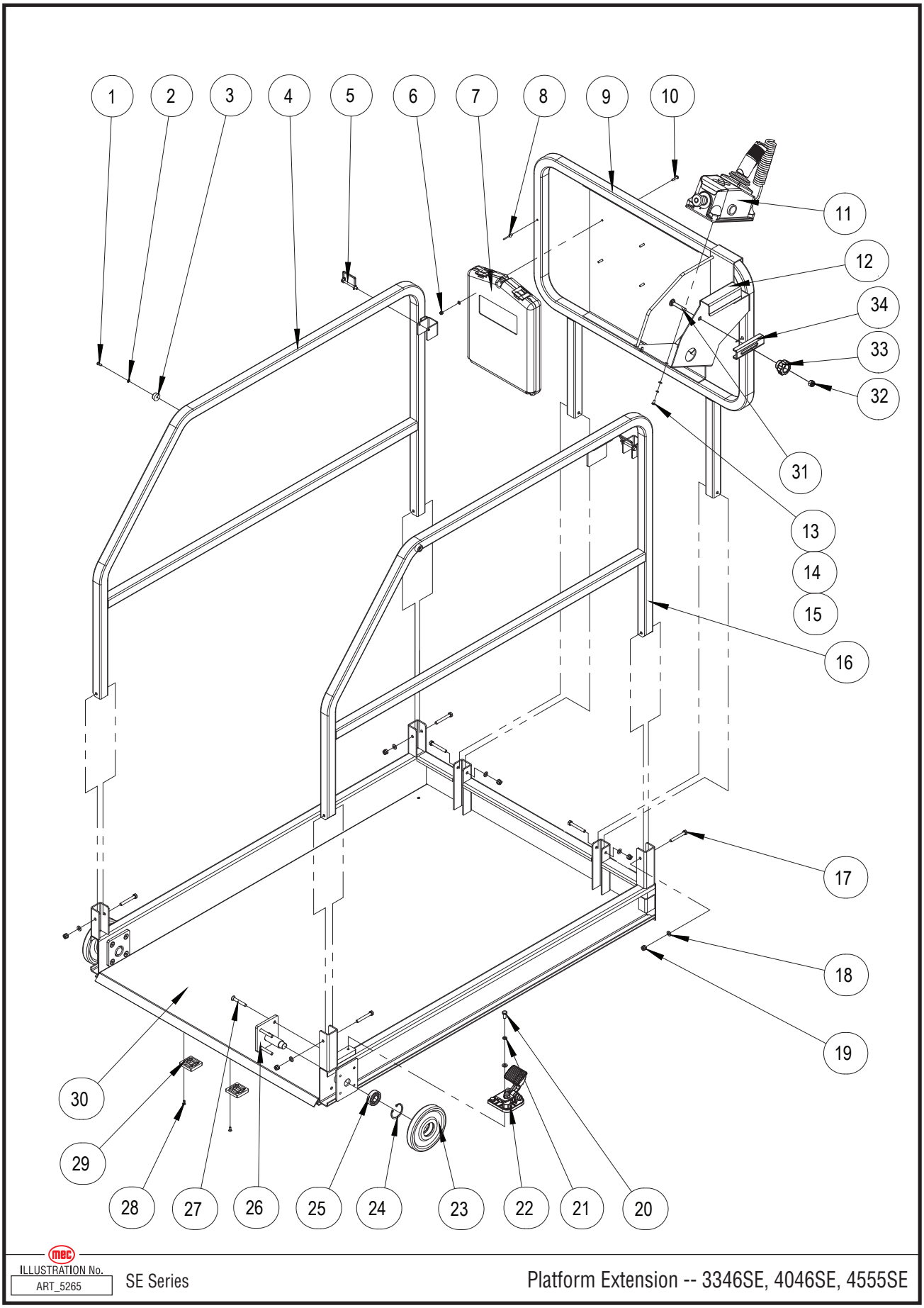


ILLUSTRATION No. ART_5265 SE Series Platform Extension -- 3346SE, 4046SE, 4555SE

Item	Part Number	Description	Qty.
1	53056	Screw M5×12	2
2	53038	Washer 5	6
3	41120	Bumper	2
4	41135	Left Rail	1
5	41357	Spring Pin	2
6	50238	Nut, #10-32 Nylock	4
7	8909	Manual Enclosure	1
8	41121	Rivet	2
9	41136	Front Rail	1
10	50191	Screw, #10-32 x .5	4
11	41137	Platform Control Assembly	1
12	41764	Platform Control Box Bracket	1
13	53056	Screw, M5 x 12-H	4
14	53043	Spring Washer 5	4
15	53038	Washer 5	4
16	41139	Right Rail	1
17	50017	Bolt M8×60	6
18	50001	Washer 8	8
19	53014	Nut M8	6
20	50031	Bolt M8×25	2
21	53055	Spring Washer 8	2
22	41140	Platform Extension Lock Assembly	1
23	41141	Roller 2	2
24	41527	Snap Ring	2
25	41359	Bearing 6204	2
26	41360	Roller bracket	2
27	50016	Screw M8×55	8
28	53042	Screw M5×16	8
29	41284	Slide Pad	2
30	41142	Platform Weldment	1
31	53248	CARB M08-1.25 × 45	1
32	50048	NNYL M08X1.25 08 ZP Nylon Inse	1
33	42501	Handle	1
34	42500	Locating Plate	1
--	43897	Kit, Upper Control Box Lock	1

Platform Extension Lock Assembly

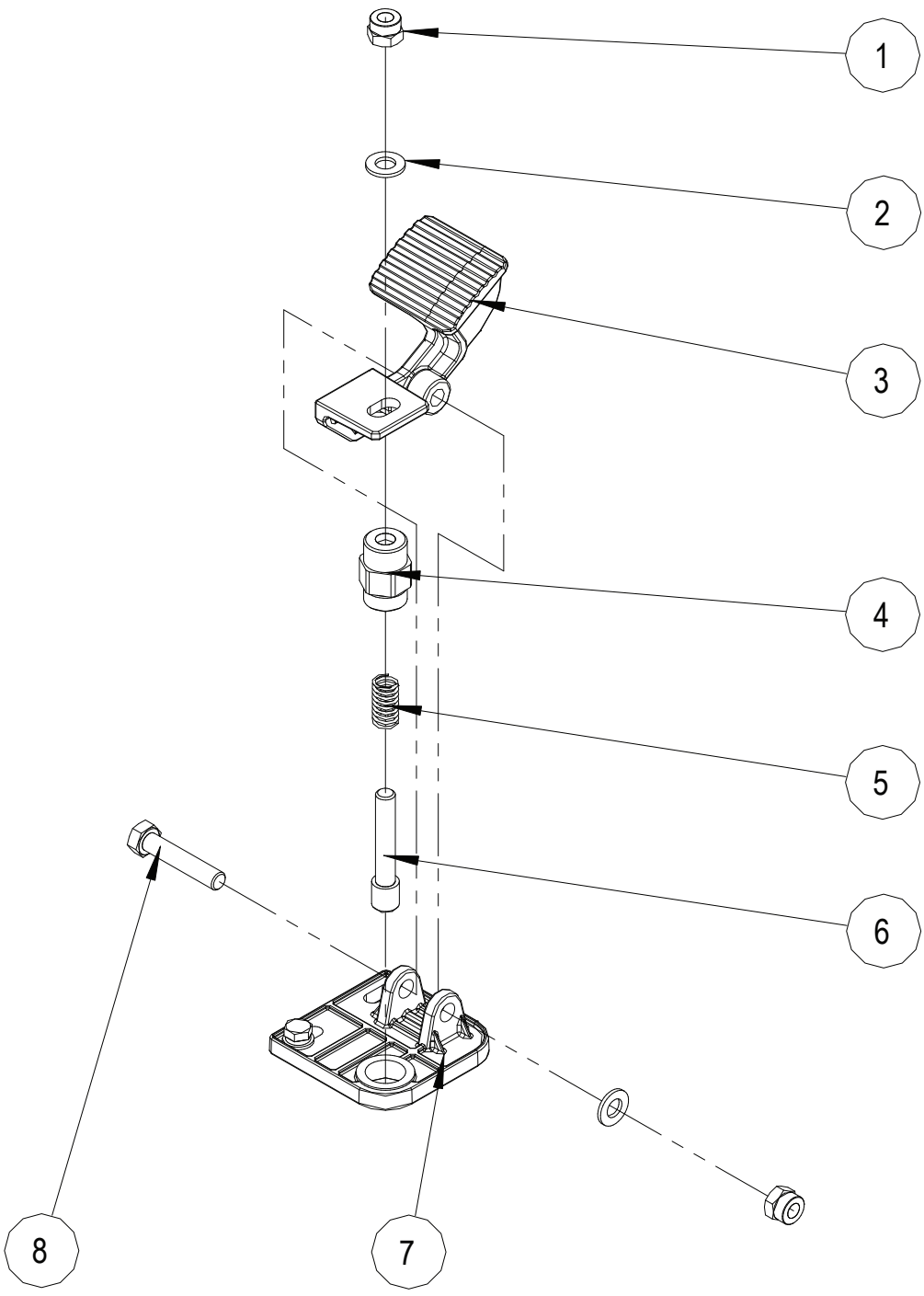


ILLUSTRATION No. ART_5046 SE Series Platform Extension Lock

Item	Part Number	Description	Qty.
--	41140	Platform Extension Lock Assembly	1
1	50049	Nut M10	2
2	50002	Washer 10	2
3	41143	Foot Pedal	1
4	41144	Lock Pin Housing	1
5	41145	Spring	1
6	41146	Lock pin	1
7	41147	Bracket	1
8	50020	Bolt M10×50	1

Platform Controls

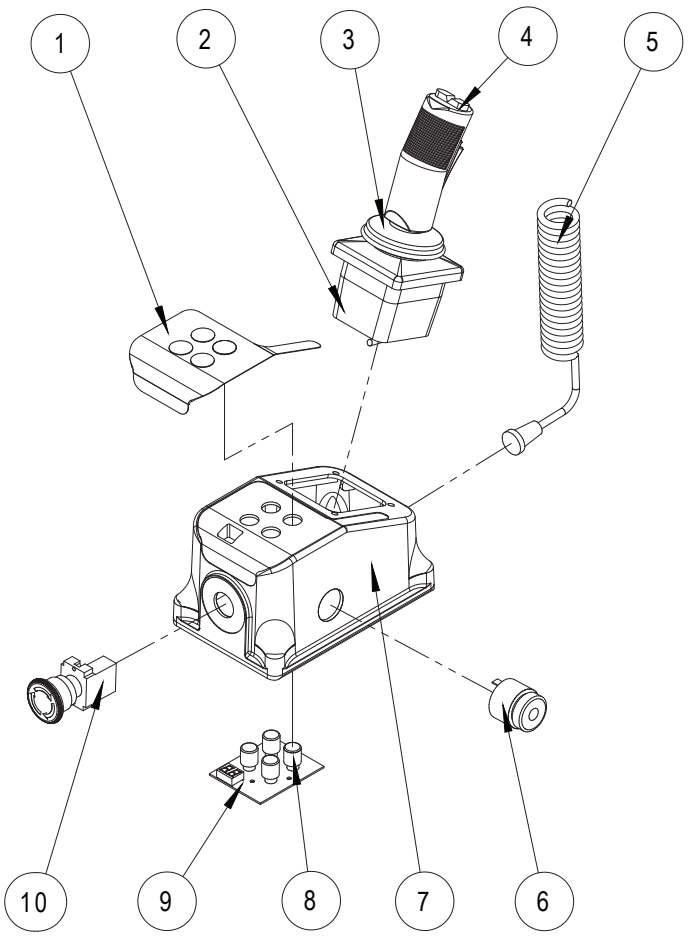


ILLUSTRATION No. ART_5115 SE Series Platform Controls

Item	Part Number	Description	Qty.
--	41137	Platform Controls Assembly	1
1	41632	Decal	1
2	41149	Joystick	1
3	41150	Dust Cover	1
4	41151	Boot	1
5	41152	Cord	1
6	41153	Alarm	1
7	41154	Enclosure	1
8	41155	Button	4
9	41156	PC Board	1
10	41157	Emergency Stop Switch	1
--	41271	Connector Kit	1

Hindley Platform Controls

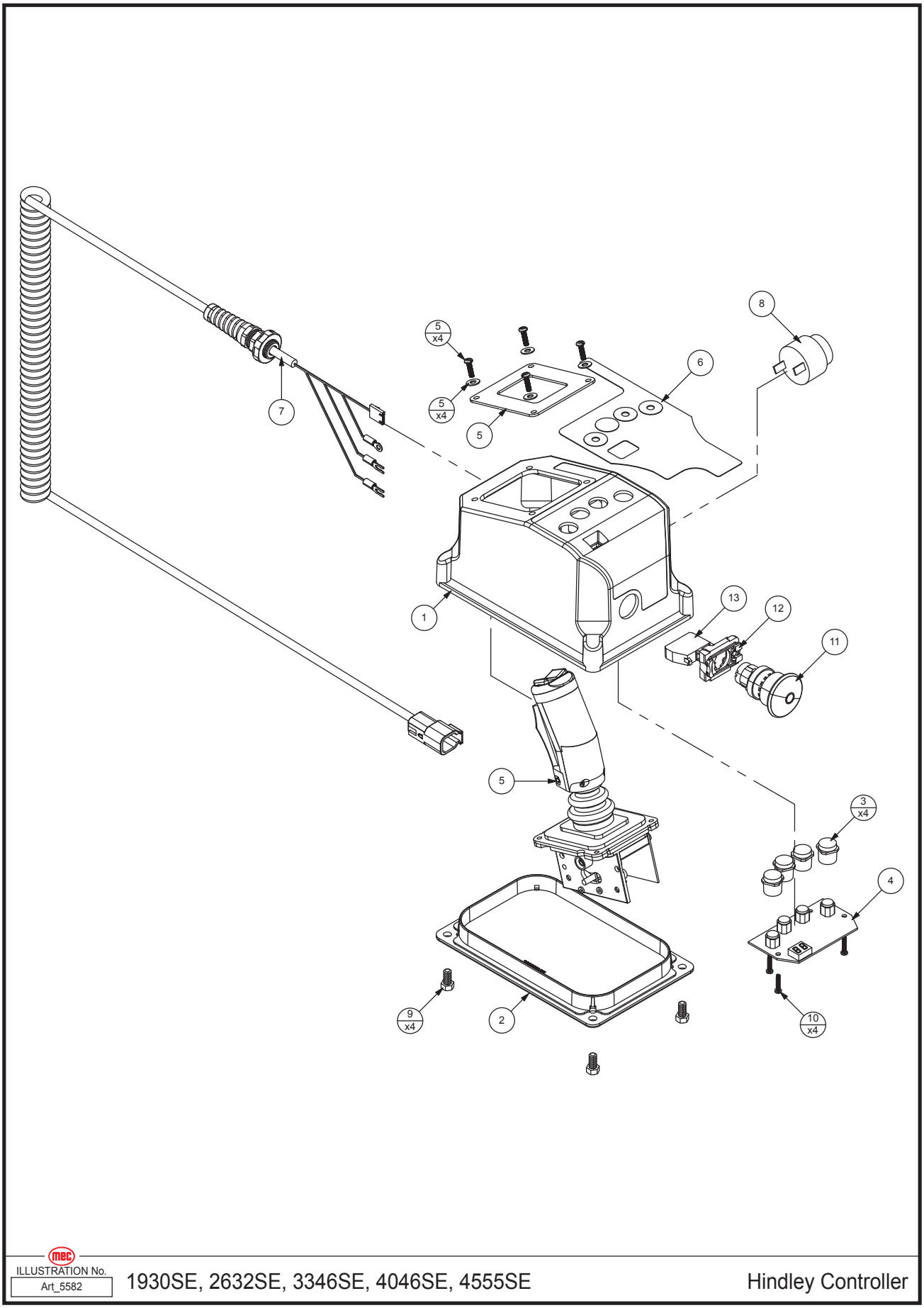


ILLUSTRATION No. Art_5582

1930SE, 2632SE, 3346SE, 4046SE, 4555SE

Hindley Controller

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

Lower Lift Cylinder Assembly

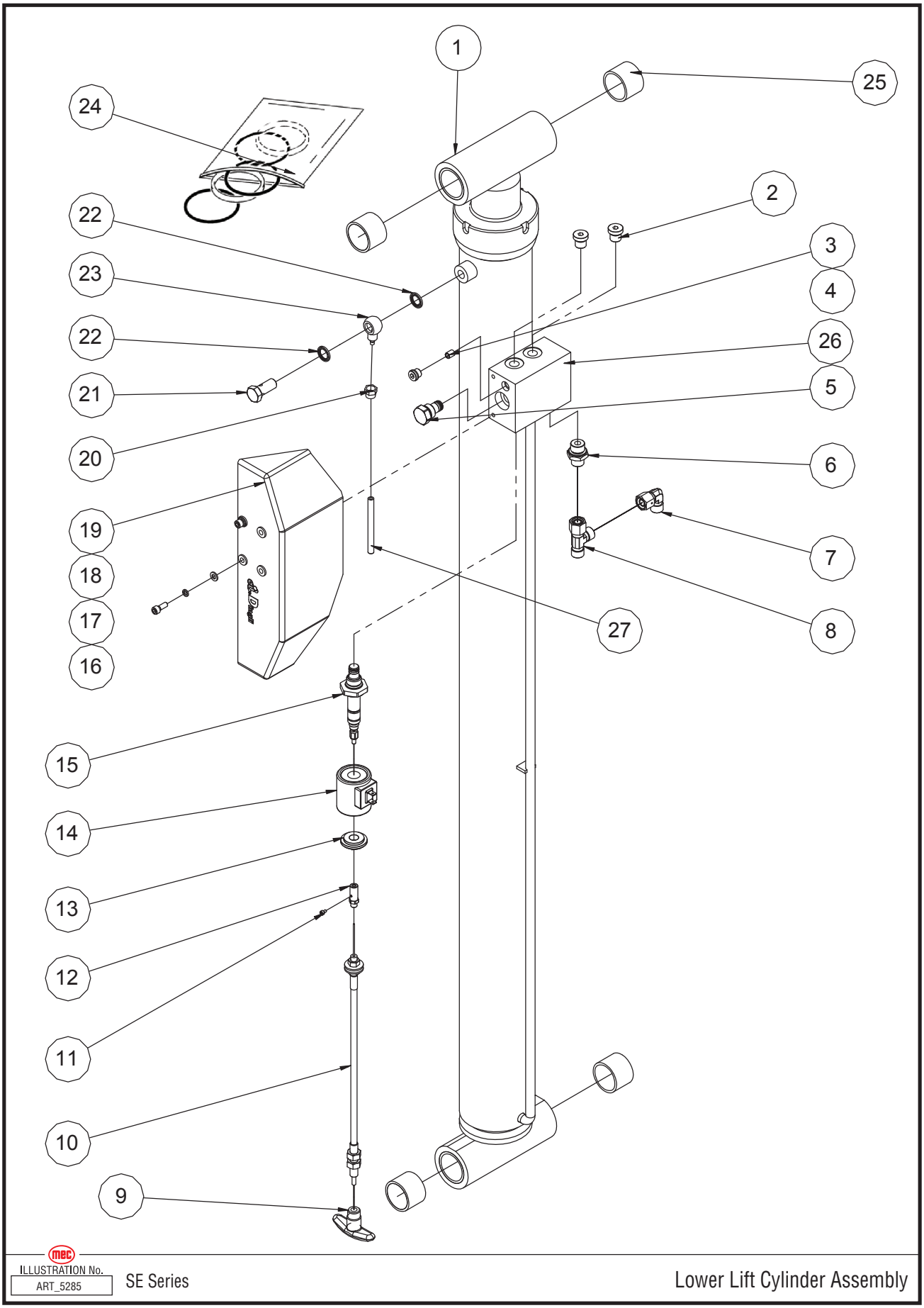


ILLUSTRATION No. ART_5285 SE Series Lower Lift Cylinder Assembly

Item	Part Number	Description	Qty.
1	41629	Lower Lift Cylinder (1930SE)	1
	41488	Lower Lift Cylinder (2632SE, 3346SE, 4046SE)	1
	41171	Lower Lift Cylinder (4555SE) (Up To Serial #16800800)	1
	42580	Lower Lift Cylinder (4555SE) (From Serial #16800801)	1
2	42480	Plug	2
3	43370	Orifice (2632SE, 3346SE, 4046SE)	1
	43645	Orifice (4555SE)	1
4	42821	Plug	1
5	41165	Check Valve	1
6	43638	Straight Fitting	1
7	43639	Elbow (3346SE, 4046SE, 4555SE)	1
8	43640	Tee Fitting (3346SE, 4046SE, 4555SE)	1
9	41162	Lowering Knob	1
10	41832	Emergency Down Cable Assembly (1930SE)	1
	41833	Emergency Down Cable Assembly (2632SE, 3346SE, 4046SE)	1
	41161	Emergency Down Cable Assembly (4555SE)	1
11	50423	SHCS M04-0.70 × 12	1
12	43365	Cable Connector	1
13	43364	Nut	1
14	41364	Coil	1
15	41363	Solenoid Valve Spool	1
16	53051	HHMS M06-1.00 × 16	2
17	53046	WSHR M6 Spring Washer	2
18	50000	WSHR M06 Standard Flat	2
19	41164	Valve cover	1
20	41413	Nut	1
21	41166	Fitting	1
22	41830	Washer	2
23	41167	Fitting	1
24	41630	Seal Kit (1930SE)	1
	41834	Seal Kit (2632SE, 3346SE, 4046SE)	1
	41168	Seal Kit (4555SE)	1
25	41831	Bearing (1930SE)	4
	41103	Bearing (2632SE, 3346SE, 4046SE, 4555SE)	4
26	41289	Valve Manifold	1
27	41837	Vent Hose (1930SE)	189 in
		Vent Hose (2632SE)	217 in
		Vent Hose (3346SE, 4046SE)	79 in
		Vent Hose (4555SE)	103 in

Upper Lift Cylinder Assembly - 3346SE, 4046SE, 4555SE Only

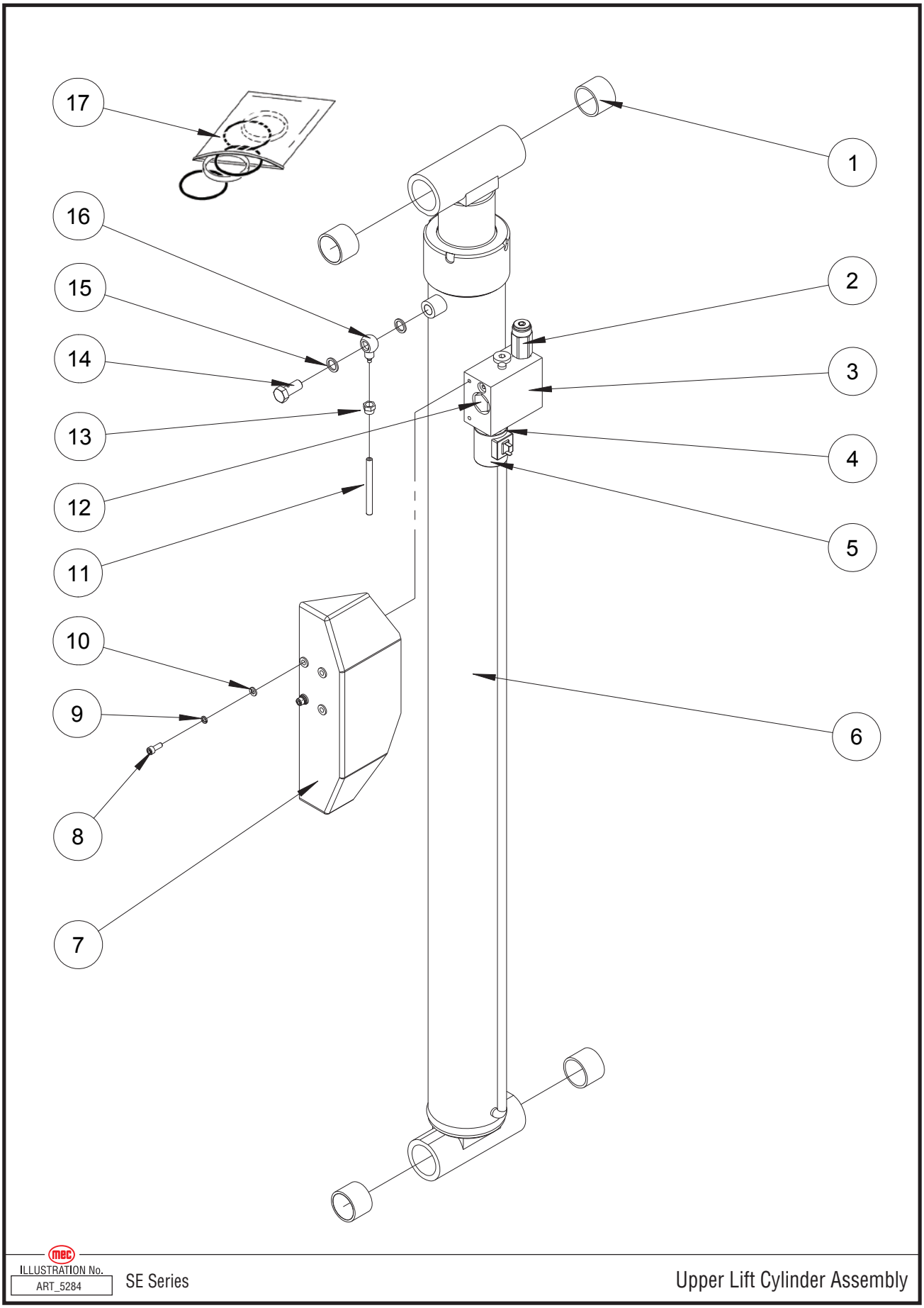


ILLUSTRATION No. ART_5284 SE Series Upper Lift Cylinder Assembly

Item	Part Number	Description	Qty.
1	41103	Bearing	4
2	41169	Pressure Relief Valve	1
3	41289	Valve Manifold	1
4	42979	Lowering Valve	1
5	41364	Coil	1
6	41505	3346SE, 4046SE -- Upper Lift Cylinder	1
	41163	4555SE -- Upper Lift Cylinder (Up To Serial #16800800)	1
	42579	4555SE -- Upper Lift Cylinder (From Serial #16800801)	1
7	41164	Cover	1
8	50000	Screw M6×16	2
9	53046	Washer, M6 Spring	2
10	53051	Washer, M6	2
11	41837	3346SE, 4046SE -- Vent Hose	288 in
		4555SE -- Vent Hose	103 in
12	41165	Throttle Valve	1
13	41413	Nut	1
14	41166	Pipeline bolt	1
15	41830	Washer, M14 Sealing	2
16	41167	Vent	1
17	41835	3346SE, 4046SE -- Seal kit	1
	41173	4555SE -- Seal kit	1

Hoses & Fittings - 1930SE

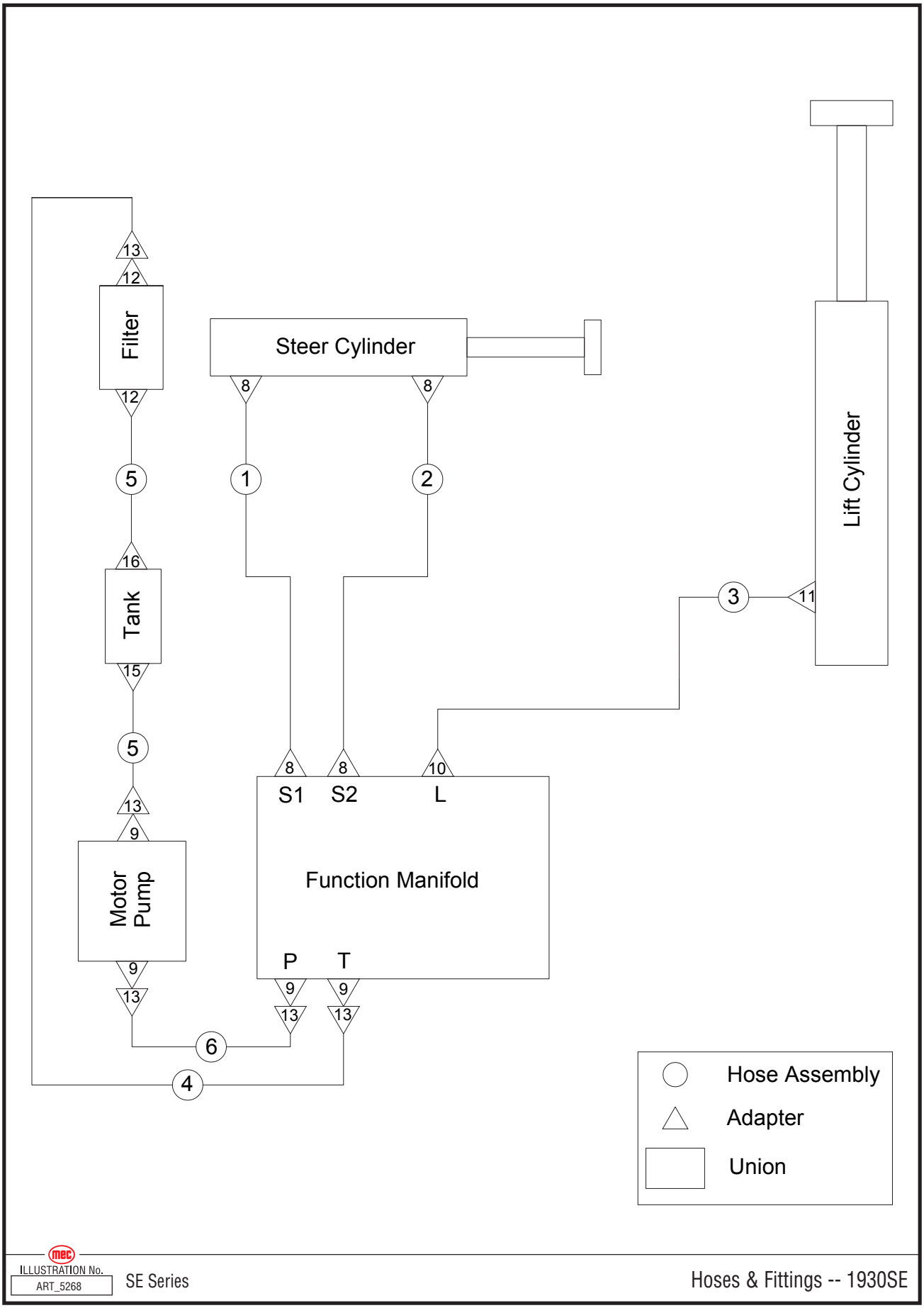
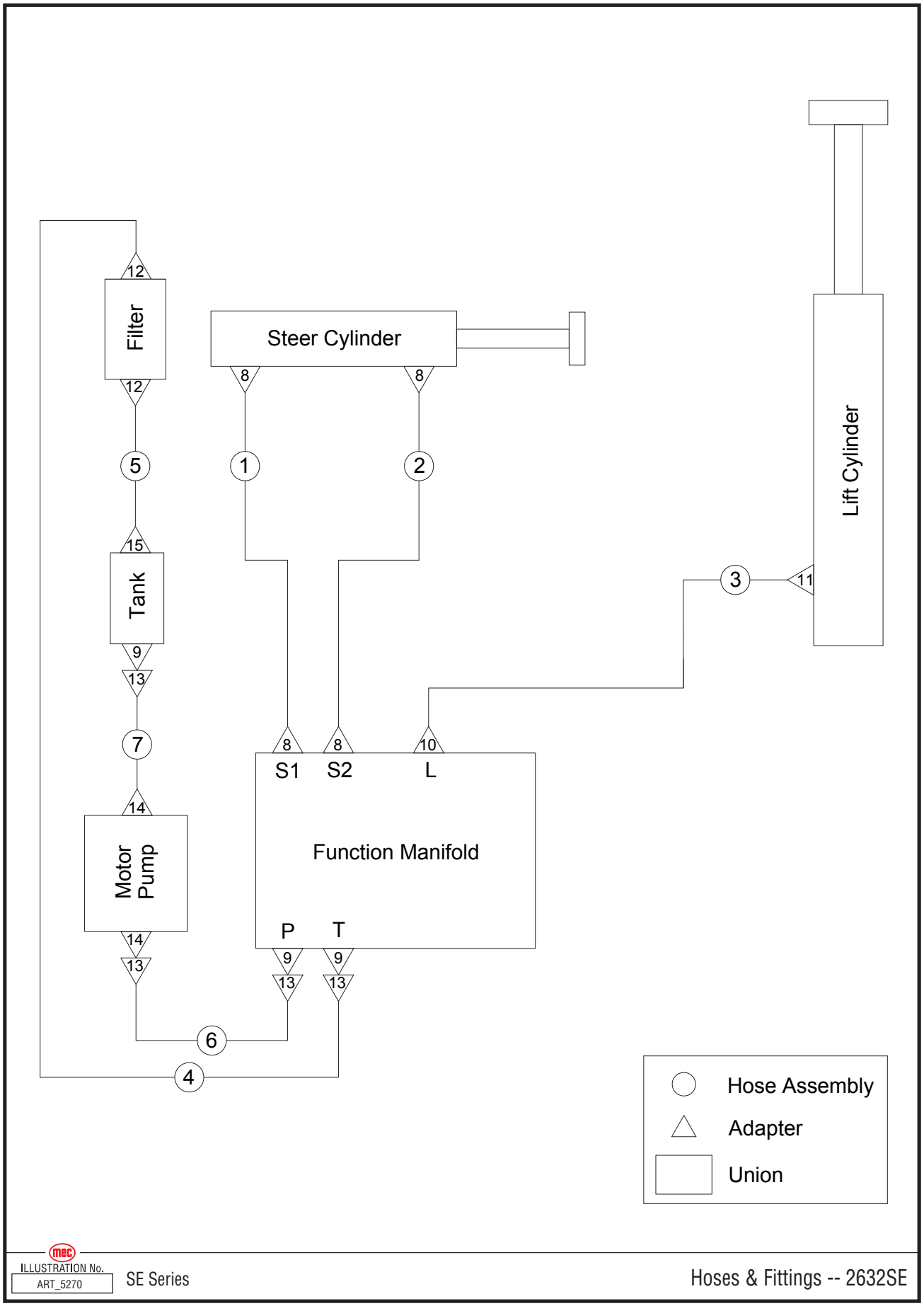


ILLUSTRATION No. ART_5268 SE Series Hoses & Fittings -- 1930SE

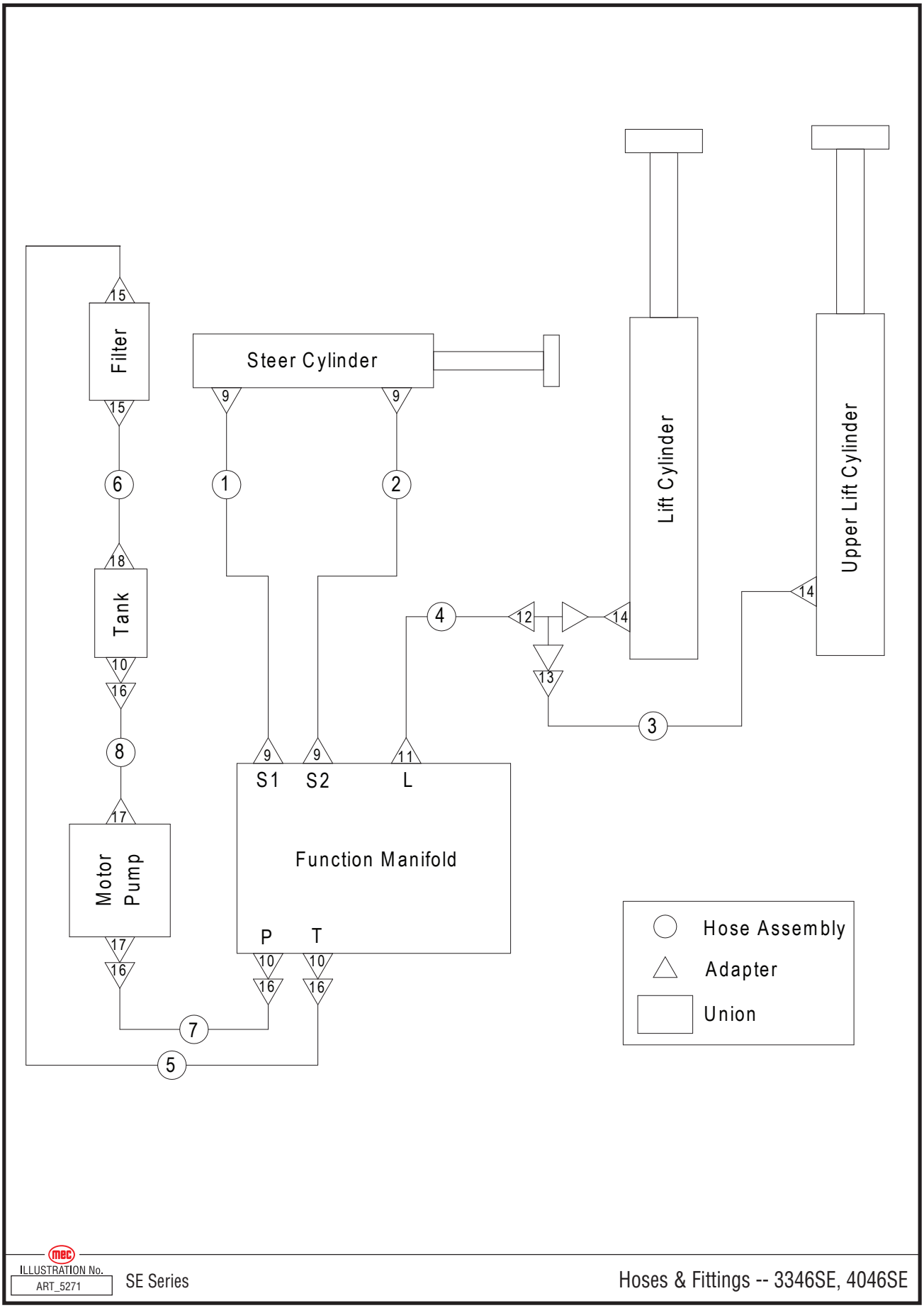
Item	Part Number	Description	Qty.
1	41838	Hose Assembly	1
2	41839	Hose Assembly	1
3	41840	Hose Assembly	1
4	41841	Hose Assembly	1
5	41842	Hose Assembly	2
6	41843	Hose Assembly	1
7	--	--	--
8	41844	Fitting, Straight	4
9	41845	Fitting, Straight	4
10	41846	Fitting, Straight	1
11	41299	Fitting, Straight	1
12	41847	Fitting, Straight	2
13	41188	Fitting, 90	5
14	--	--	--
15	41826	Fitting	1
16	41848	Fitting, M22 x 1.5	1

Hoses & Fittings - 2632SE



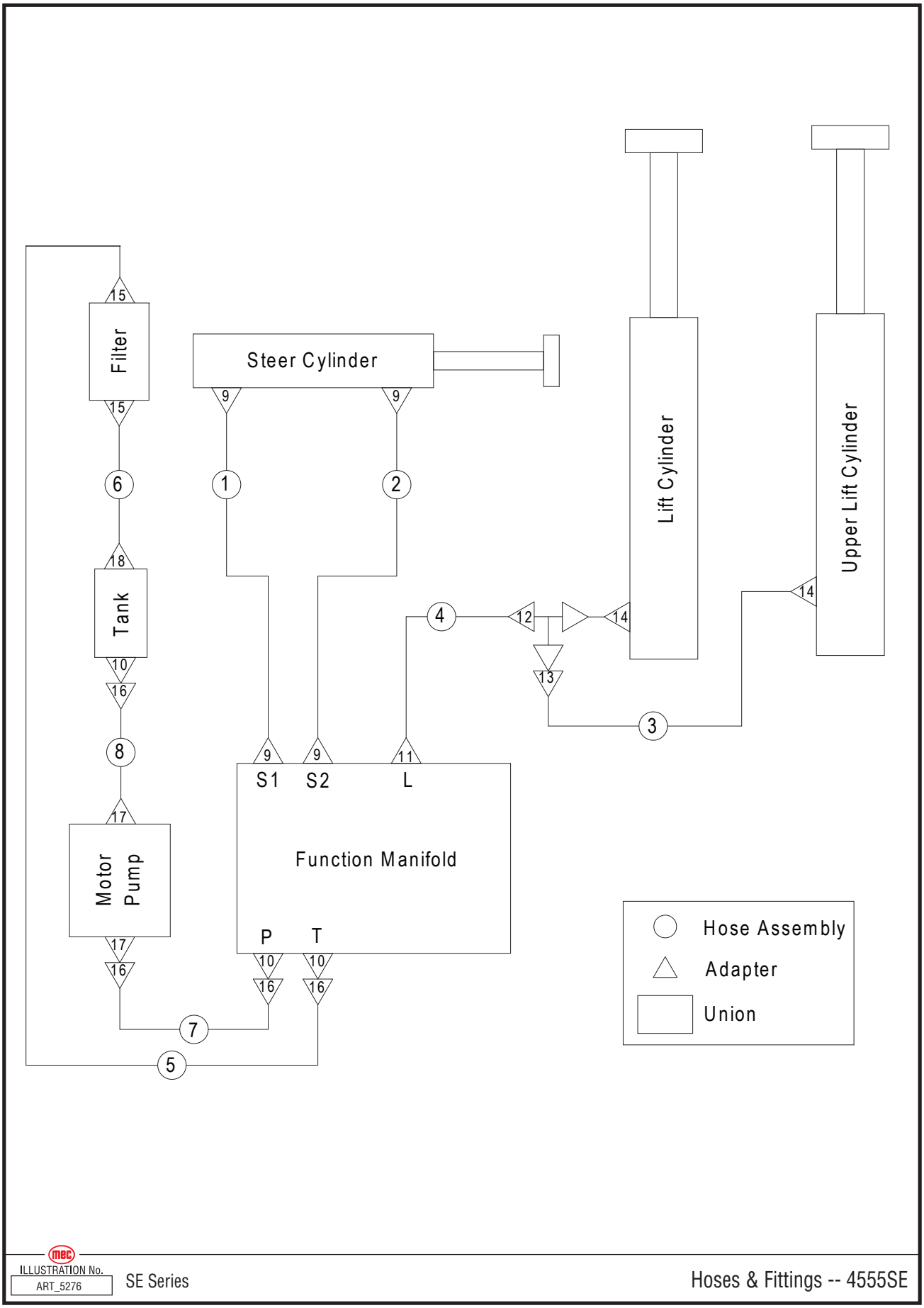
Item	Part Number	Description	Qty.
1	41539	Hose Assembly	1
2	41541	Hose Assembly	1
3	41543	Hose Assembly	1
4	41544	Hose Assembly	1
5	41546	Hose Assembly	1
6	41179	Hose Assembly	1
7	41180	Hose Assembly	1
8	41844	Fitting, Straight	4
9	41845	Fitting, Straight	3
10	41846	Fitting, Straight	1
11	41299	Fitting, Straight	1
12	41847	Fitting, Straight	2
13	41188	Fitting, 90	4
14	41849	Fitting, Straight	2
15	41848	Fitting, M22 x 1.5	1

Hoses & Fittings - 3346SE, 4046SE



Item	Part Number	Description	Qty.
1	41540	Hose Assembly	1
2	51452	Hose Assembly	1
3	41545	Hose Assembly	1
4	41543	Hose Assembly	1
5	41546	Hose Assembly	1
6	41178	Hose Assembly	1
7	41179	Hose Assembly	1
8	41180	Hose Assembly	1
9	41844	Fitting, Straight	4
10	41845	Fitting, Straight	3
11	41846	Fitting, Straight	1
12	41184	Fitting, T	1
13	41185	Fitting, 90	1
14	41299	Fitting, Straight	2
15	41487	Fitting, Straight	2
16	41188	Fitting, 90	4
17	41849	Fitting, Straight	2
18	41848	Fitting, M22 x 1.5	1

Hoses & Fittings - 4555SE



Item	Part Number	Description	Qty.
1	41174	Steer Hose Assembly	1
2	41175	Steer Hose Assembly	1
3	41176	Upper Lift Cylinder Hose Assembly	1
4	41177	Lift Cylinder Hose Assembly	1
5	41178	Manifold To Filter Hose Assembly	1
6	41178	Tank Return Hose Assembly	1
7	41179	Pressure Hose Assembly	1
8	41180	Suction Hose Assembly	1
9	41844	Straight Fitting	4
10	41845	Straight Fitting	3
11	41846	Straight Fitting	1
12	41184	Tee Fitting	1
13	41185	Elbow	1
14	41299	Straight Fitting	2
15	41847	Straight Fitting	2
16	41188	Elbow	4
17	41849	Straight Fitting	2
18	41085	Fitting M22×1.5	1

Functions Manifold

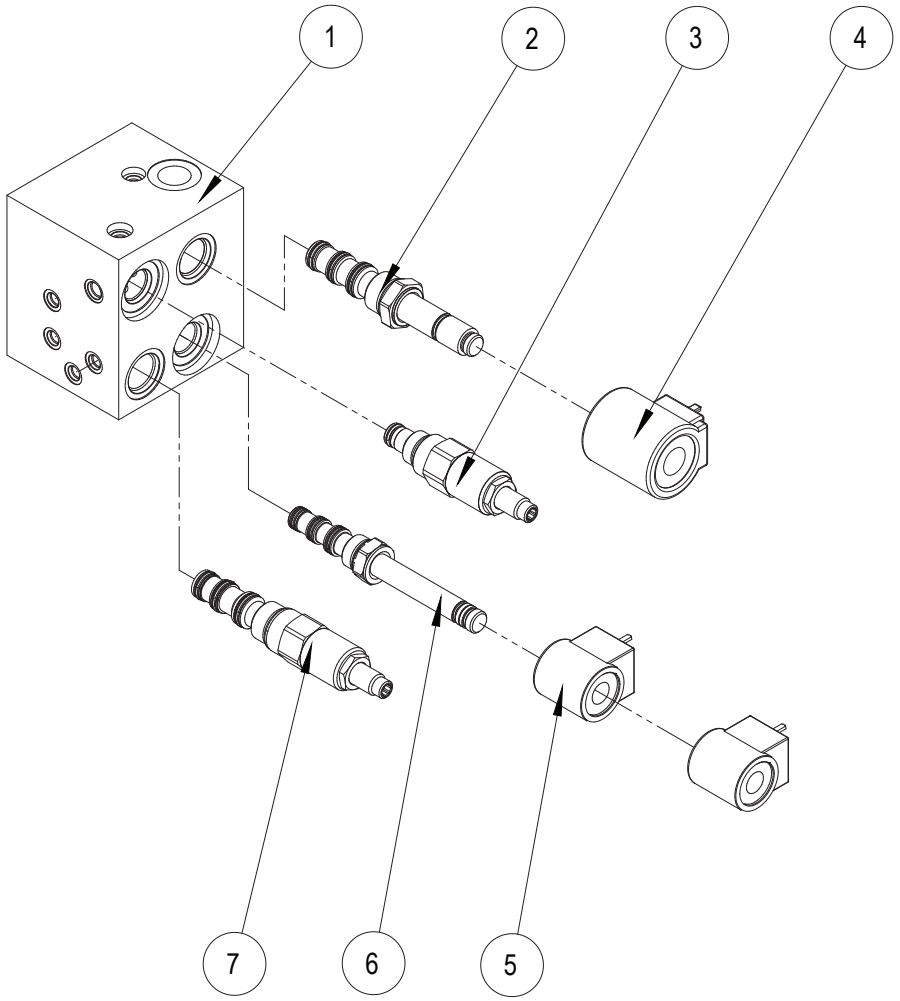


ILLUSTRATION No. ART_5277 SE Series Functions Manifold

Item	Part Number	Description	Qty.
--	41081	Functions Manifold Assembly, Complete w/o Fittings	1
1	41547	Valve Body	1
2	41548	Lift Valve Solenoid	1
3	41549	Lift Relief Valve	1
4	41550	Coil	1
5	41551	Coil	2
6	41537	Steer Valve Solenoid	1
7	41538	Steer Pressure-Gradient Control Valve	1

Electrical Harness - 1930SE

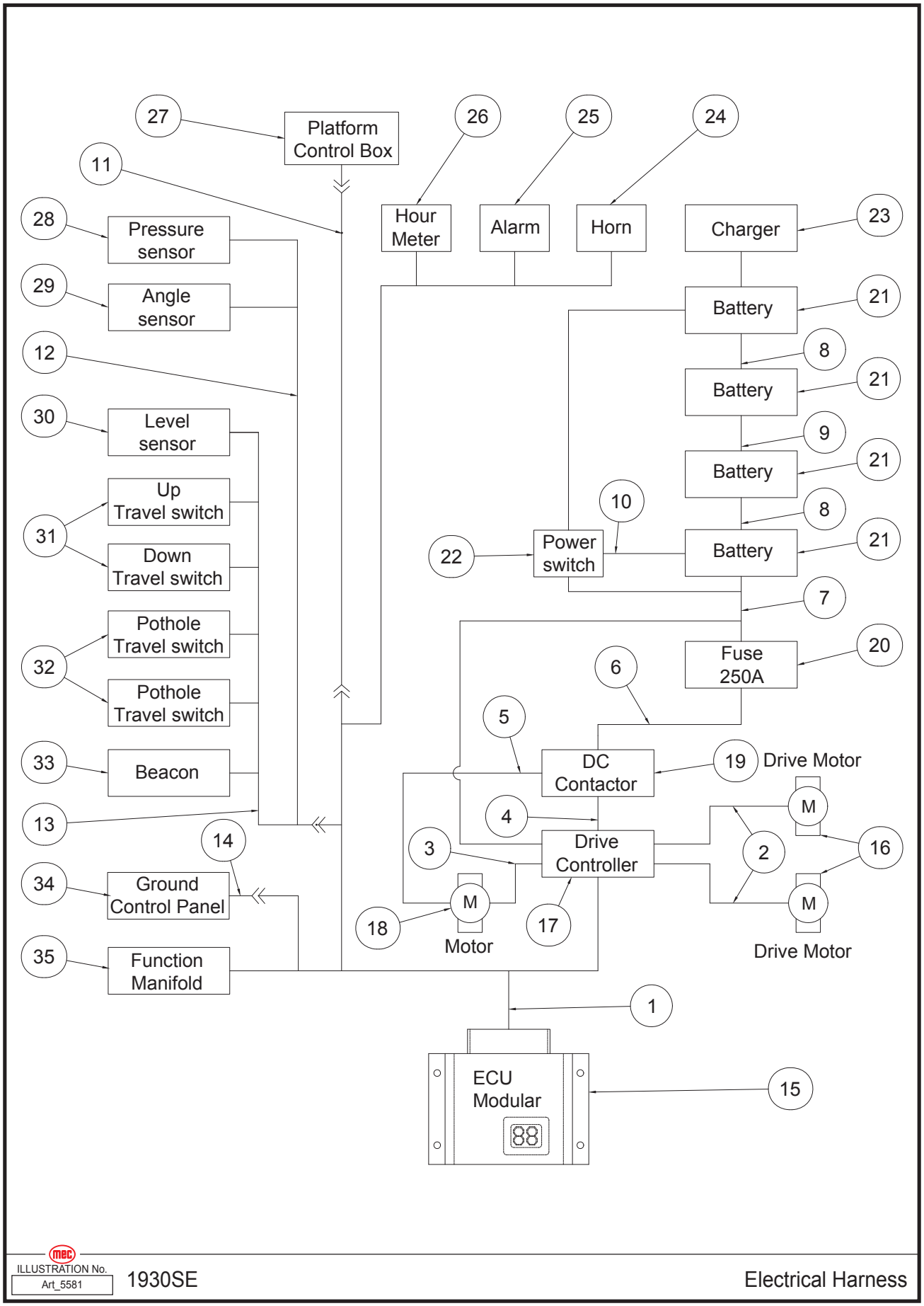


ILLUSTRATION No. Art_5581 1930SE Electrical Harness

Item	Part Number	Description	Qty.
1	41853	Harness, ECU 1930SE	1
2	41854	Harness, Drive Motor 1930SE	1
--	--	--	--
4	41855	Harness, Drive Controller 1930SE	1
--	--	--	--
6	41856	Harness, DC Contactor 1930SE	1
7	41857	Battery Harness 1930SE	1
8	41858	Battery Harness 1 1930SE	2
9	41859	Battery Harness 2 1930SE	1
10	41860	Battery Negative Harness 1930SE	1
11	41861	Harness, Platform Control Box 1930SE	1
--	--	--	--
13	41862	Harness, Travel Switch 1930	1
14	47277	Harness, Ground Control Panel 1930SE	1
15	REF	ECU modular (Refer to page 75)	1
16	REF	Drive Motor (Refer to page 59)	2
17	REF	Drive Controller (Refer to page 83)	1
18	REF	Motor (Refer to page 75)	2
19	REF	DC Contactor (Refer to page 83)	1
20	REF	Fuse 250A (Refer to page 83)	1
21	REF	Battery (Refer to page 71)	4
22	REF	Power Switch (Refer to page 71)	1
23	REF	Charger (Refer to page 51)	1
24	REF	Horn (Refer to page 75)	1
25	REF	Alarm (Refer to page 75)	1
26	REF	Hour Meter (Refer to page 75)	1
27	REF	Platform Control Box (Refer to page 129)	1
28	REF	Pressure Sensor (Refer to page 133)	1
29	REF	Angle Sensor (Refer to page 97)	1
30	REF	Level Sensor (Refer to page 87)	1
31	REF	Travel Switch, Lift Up/Down (Refer to page 87)	2
32	REF	Travel Switch, Pothole (Refer to page 67)	2
33	REF	Beacon (Refer to page 51)	1
34	REF	Ground Control Panel Assembly (Refer to page 91)	1
35	REF	Function Manifold (Refer to page 145)	1

REF - Reference

Electrical Harness - 2632SE , 3346SE

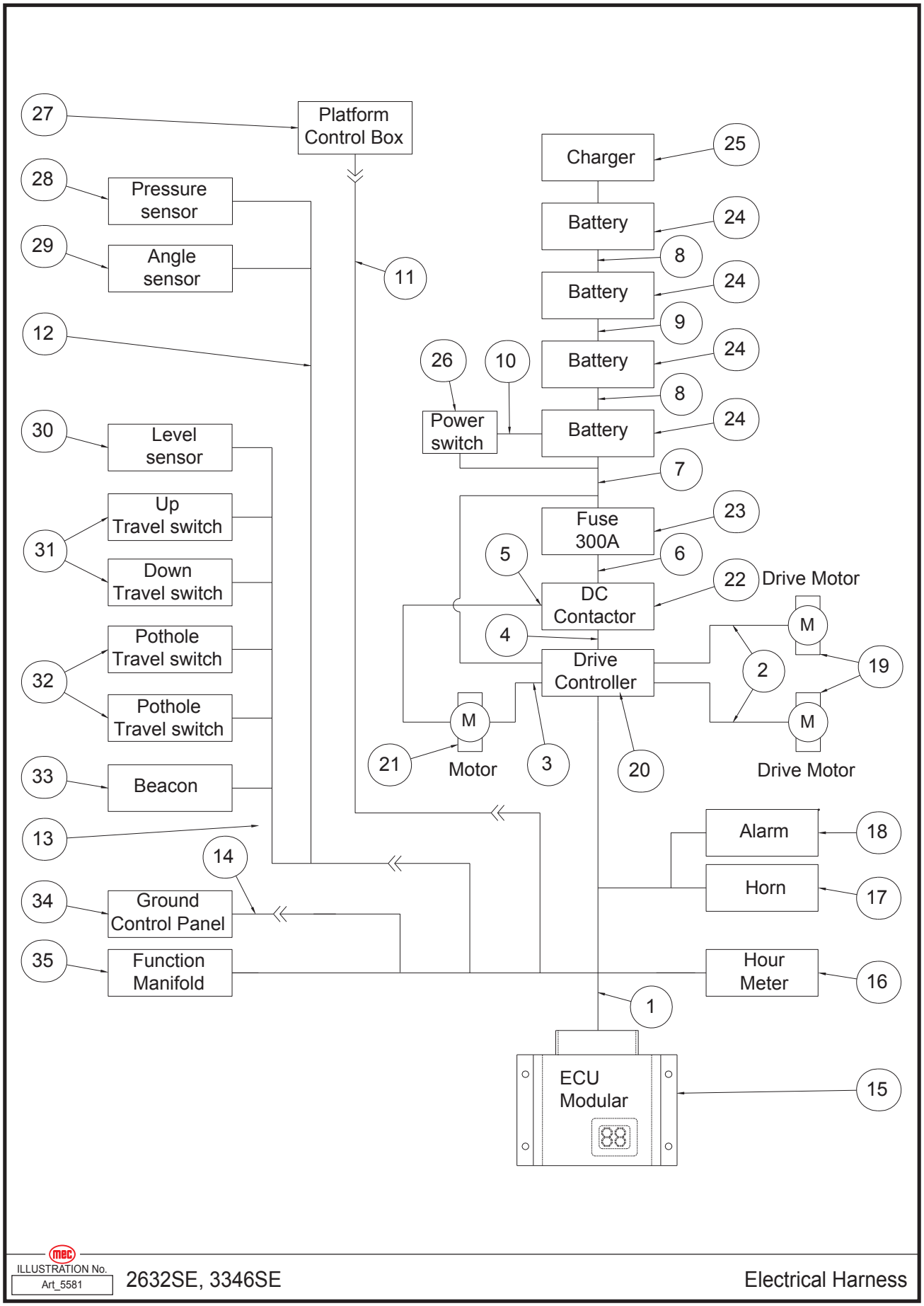


ILLUSTRATION No. Art_5581

2632SE, 3346SE

Electrical Harness

Item	Part Number	Description	Qty.
1	41864	Harness, ECU	1
2	41865	Harness, Drive Motor 2632SE	2
	41866	Harness, Drive Motor 3346SE	2
3	41867	Harness, Pump Motor Negative - 2632SE , 3346SE	1
4	41868	Harness, Drive Controller - 2632SE , 3346SE	1
5	41869	Harness, Pump Motor Positive - 2632SE , 3346SE	1
6	41870	Harness, DC Contactor - 2632SE , 3346SE	1
7	41871	Battery Harness 2632SE	1
	41872	Battery Harness 3346SE	1
8	41873	Battery Harness 1 , 2632SE , 3346SE	2
9	41874	Battery Harness 2 , 2632SE , 3346SE	1
10	41875	Battery Negative Harness, 2632SE , 3346SE	1
11	41876	Harness, Platform Control Box , 2632SE	1
	41877	Harness, Platform Control Box , 3346SE	1
12	--	Harness, Angle/Pressure Sensor - Option	-
13	41878	Harness, Travel Switch , 2632SE	1
	41879	Harness, Travel Switch , 3346SE	1
14	41863	Harness, Ground Control Panel	1
15	REF	ECU modular (Refer to page 77)	1
16	REF	Hour Meter (Refer to page 77)	1
17	REF	Horn (Refer to page 77)	1
18	REF	Alarm (Refer to page 77)	1
19	REF	Drive Motor (Refer to page 61)	1
20	REF	Drive Controller (Refer to page 85)	1
21	REF	Motor (Refer to page 77)	1
22	REF	DC Contactor (Refer to page 85)	2
23	REF	Fuse 300A (Refer to page 85)	1
24	REF	Battery (Refer to page 73)	4
25	REF	Charger (Refer to page 73)	1
26	REF	Power Switch (Refer to page 73)	1
27	REF	Platform Control Box (Refer to page 129)	1
28	REF	Pressure Sensor (Refer to page 133)	1
29	REF	Angle Sensor (Refer to page 99 or page 101)	1
30	REF	Level Sensor (Refer to page 87)	1
31	REF	Travel Switch, Lift Up/Down (Refer to page 87)	2
32	REF	Travel Switch, Pothole (Refer to page 69)	2
33	REF	Beacon (Refer to page 53 or page 55)	1
34	REF	Ground Control Panel Assembly (Refer to page 93)	1
35	REF	Function Manifold (Refer to page 145)	1

REF - Reference

Electrical Harness - 4046SE , 4555SE

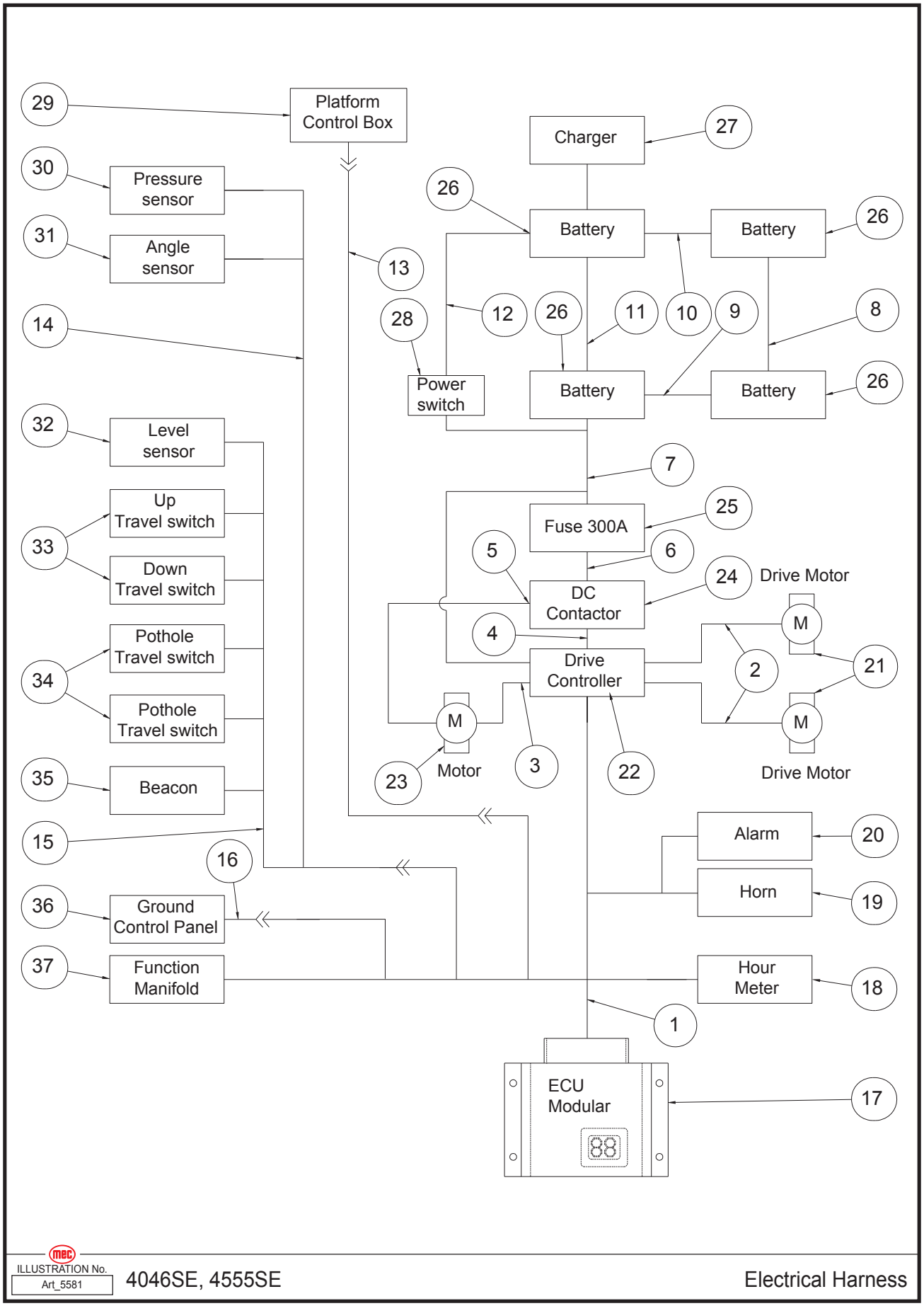


ILLUSTRATION No. Art_5581

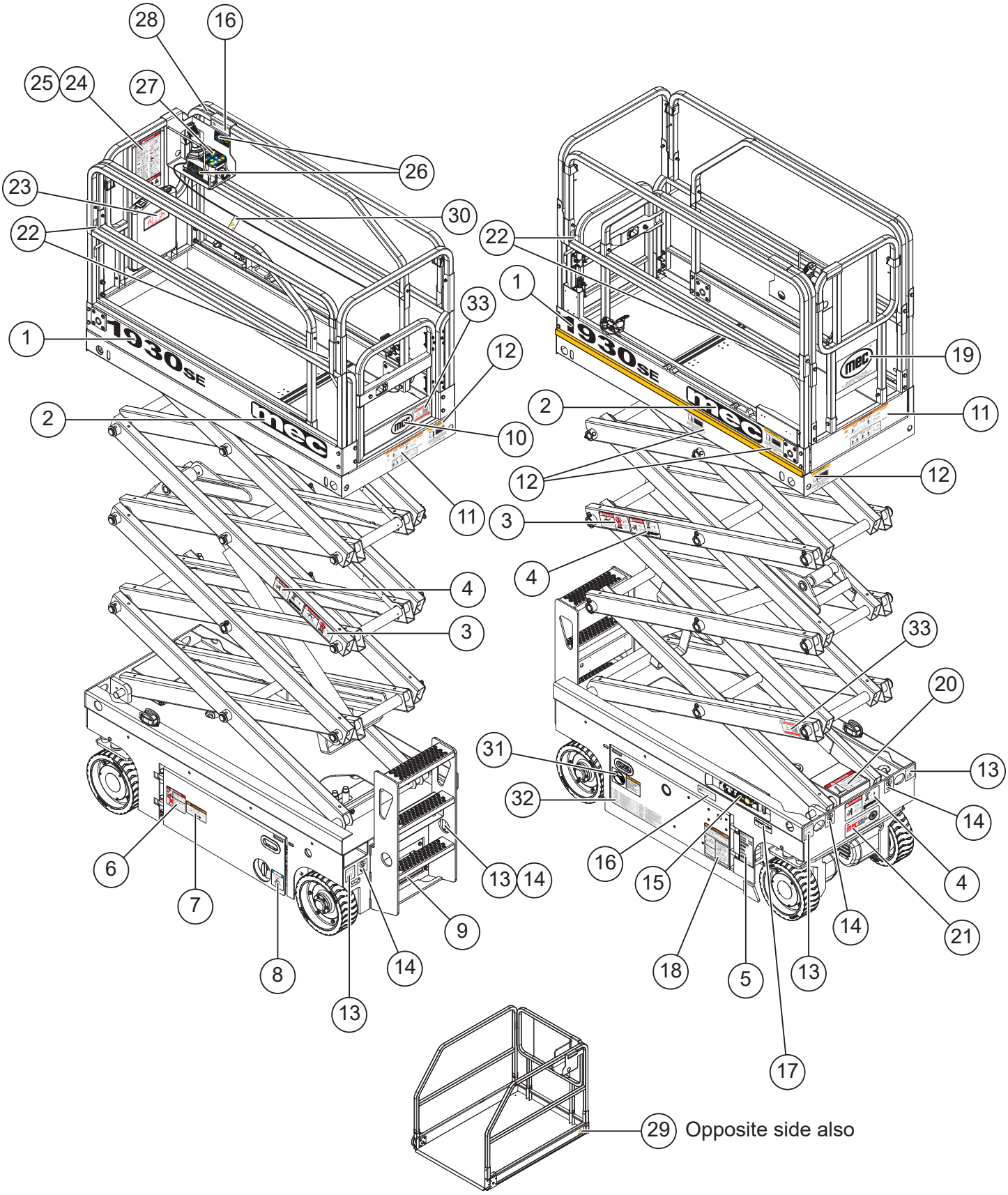
4046SE, 4555SE

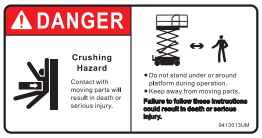
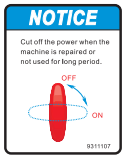
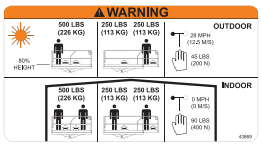
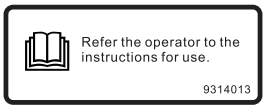
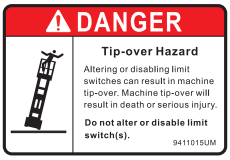
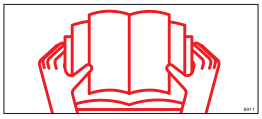
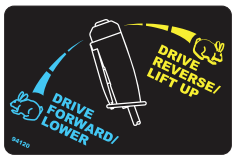
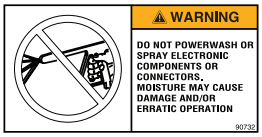
Electrical Harness

Item	Part Number	Description	Qty.
1	41864	Harness, ECU	1
2	41866	Harness, Drive Motor 4046SE	2
	41880	Harness, Drive Motor 4555SE	2
3	41867	Harness, Pump Motor Negative - 2632SE , 3346SE	1
4	41868	Harness, Drive Controller - 2632SE , 3346SE	1
5	41869	Harness, Pump Motor Positive - 2632SE , 3346SE	1
6	41870	Harness, DC Contactor - 2632SE , 3346SE	1
7	41872	Battery Harness 4046SE	1
	41881	Battery Harness 4555SE	1
8	41882	Battery Harness 1 , 4046SE , 4555SE	1
9	41883	Battery Harness 2 , 4046SE , 4555SE	1
10	41884	Battery Harness 3 , 4046SE , 4555SE	1
11	41885	Battery Harness 4 , 4046SE , 4555SE	1
12	41875	Battery Negative Harness 2632SE , 3346SE	1
13	41886	Harness, Platform Control Box 4046SE	1
	41887	Harness, Platform Control Box 4555SE	1
14	---	Harness, Angle/Pressure Sensor 4046SE (Not Used)	-
	---	Harness, Angle/Pressure Sensor 4555SE (Not Used)	-
15	41879	Harness, Travel Switch 3346SE , 4046SE	1
	41888	Harness, Travel Switch 4555SE	1
16	41863	Harness, Ground Control Panel	1
17	REF	ECU Modular (Refer to page 77)	
18	REF	Hour Meter (Refer to page 77)	
19	REF	Horn (Refer to page 77)	
20	REF	Alarm (Refer to page 77)	
21	REF	Drive Motor (Refer to page 61)	
22	REF	Drive Controller (Refer to page 85)	
23	REF	Motor (Refer to page 77)	
24	REF	DC Contactor (Refer to page 85)	
25	REF	Fuse 300A (Refer to page 85)	
26	REF	Battery (Refer to page 73)	
27	REF	Charger (Refer to page 73)	
28	REF	Power Switch (Refer to page 73)	
29	REF	Platform Control Box (Refer to page 129)	
30	REF	Pressure Sensor (Refer to page 133)	
31	REF	Angle Sensor (Refer to page 103)	
32	REF	Level Sensor (Refer to page 87)	
33	REF	Travel Switch, Lift Up/Down (Refer to page 87)	
34	REF	Travel Switch, Pothole (Refer to page 69)	
35	REF	Beacon (Refer to page 55 or page 57)	
36	REF	Ground Control Panel Assembly (Refer to page 93)	
37	REF	Function Manifold (Refer to page 145)	

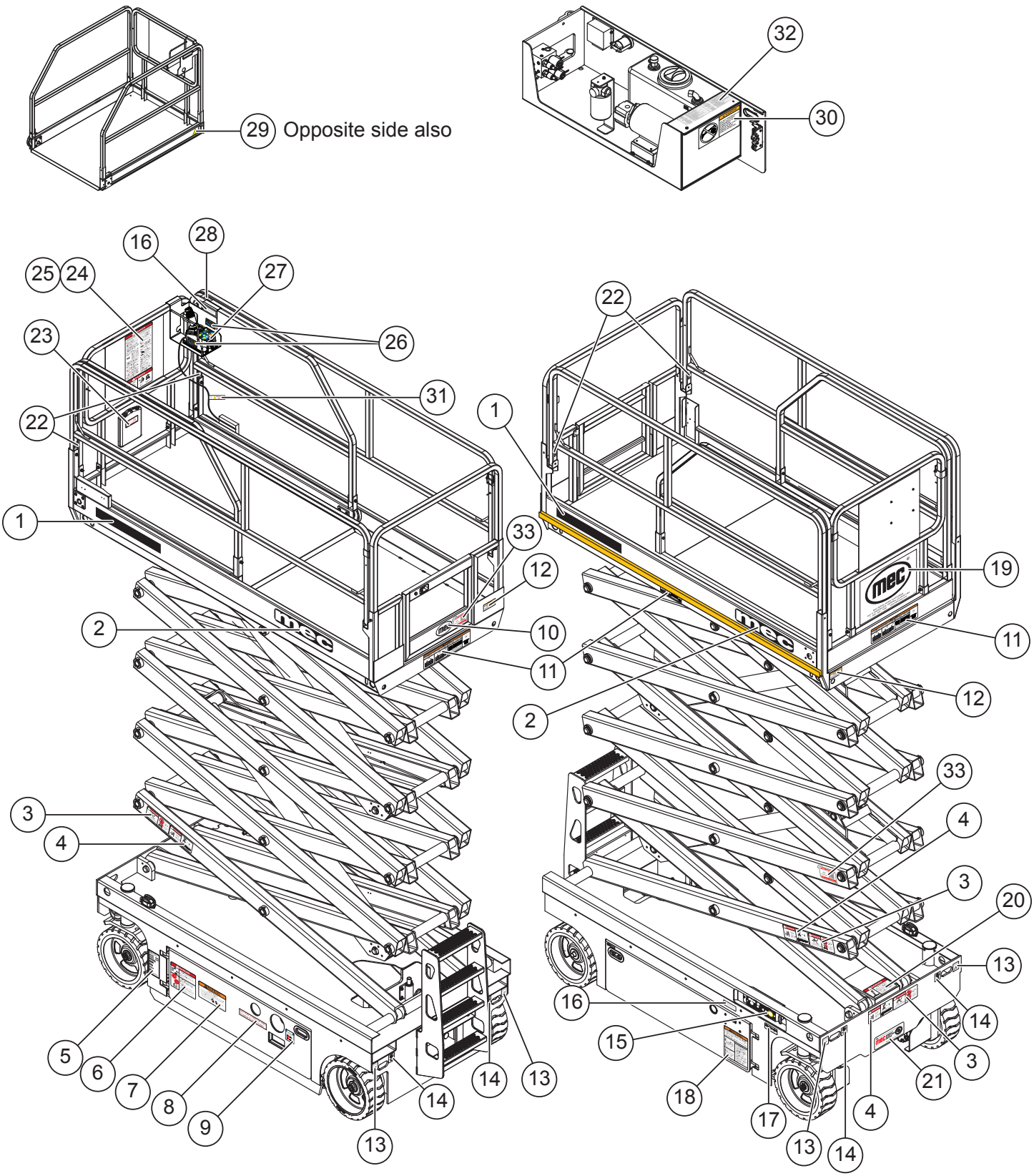
REF - Reference

Decal Locations - 1930SE



1 1930SE 94255 Qty. - 2	2 mec 94114 Qty. - 2	3  41748 Qty. - 2	4  41646 Qty. - 3	5  94113 Qty. - 1
6  41641 Qty. - 1	7  41905 Qty. - 1	8  41666 Qty. - 1	9  94659 Qty. - 1	10 mec 94115 Qty. - 1
11  43869 Qty. - 2	12  95225 Qty. - 4	13  41635 Qty. - 4	14  41634 Qty. - 4	15  41667 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  41632 Qty. - 1	28  41640 Qty. - 1	29  91850 Qty. - 2	30  94778 Qty. - 1
31  90732 Qty. - 1	32  43879 Qty. - 1	33  95256 Qty. - 2		

Decal Locations - 2632SE, 3346SE



1

94256 Qty. - 2

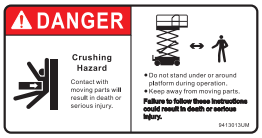
2

94114 Qty. - 2

3

41748 Qty. - 3

4



41646 Qty. - 3

5

94113 Qty. - 1

6

41641 Qty. - 1

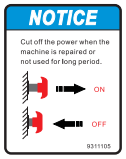
7

42293 Qty. - 1

8

94659 Qty. - 1

9

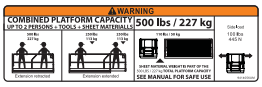


41637 Qty. - 1

10

94115 Qty. - 1

11



41851 Qty. - 3

12

94263 Qty. - 2

13

41635 Qty. - 4

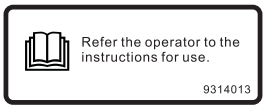
14

41634 Qty. - 4

15

41631 Qty. - 1

16



41639 Qty. - 2

17

41636 Qty. - 1

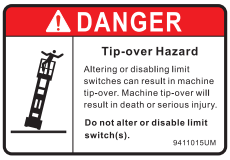
18

41649 Qty. - 1

19

90719 Qty. - 1

20



41642 Qty. - 1

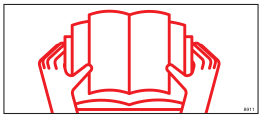
21

94423 Qty. - 1

22

41648 Qty. - 4

23

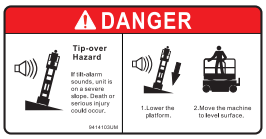


8911 Qty. - 1

24

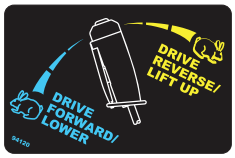
41652 Qty. - 1

25



41647 Qty. - 1

26



94120 Qty. - 2

27

41632 Qty. - 1

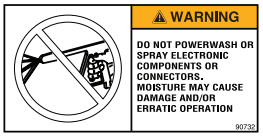
28

41640 Qty. - 1

29

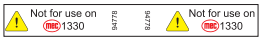
91850 Qty. - 2

30



90732 Qty. - 1

31



94778 Qty. - 1

32

43879 Qty. - 1

33

95257 Qty. - 2

1

94257 Qty. - 2

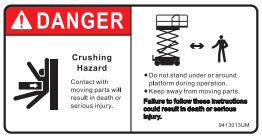
2

94114 Qty. - 2

3

41748 Qty. - 3

4



41646 Qty. - 3

5

94113 Qty. - 1

6

41641 Qty. - 1

7

41583 Qty. - 1

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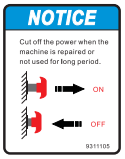
94659 Qty. - 1

9

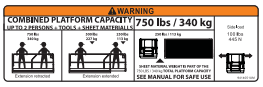


41637 Qty. - 1

10

94115 Qty. - 1

11



41850 Qty. - 3

12

94264 Qty. - 2

13

41635 Qty. - 4

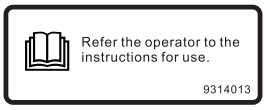
14

41634 Qty. - 4

15

41631 Qty. - 1

16



41639 Qty. - 2

17

41636 Qty. - 1

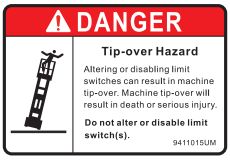
18

41649 Qty. - 1

19

90719 Qty. - 1

20



41642 Qty. - 1

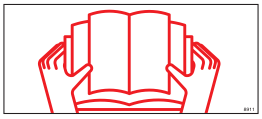
21

94423 Qty. - 1

22

41648 Qty. - 4

23



8911 Qty. - 1

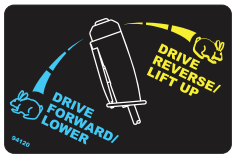
24

41652 Qty. - 1

25

41647 Qty. - 1

26



94120 Qty. - 2

27

41632 Qty. - 1

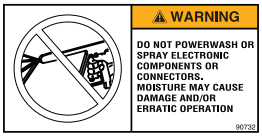
28

41640 Qty. - 1

29

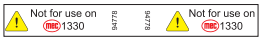
91850 Qty. - 2

30



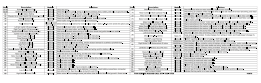
90732 Qty. - 1

31



94778 Qty. - 1

32

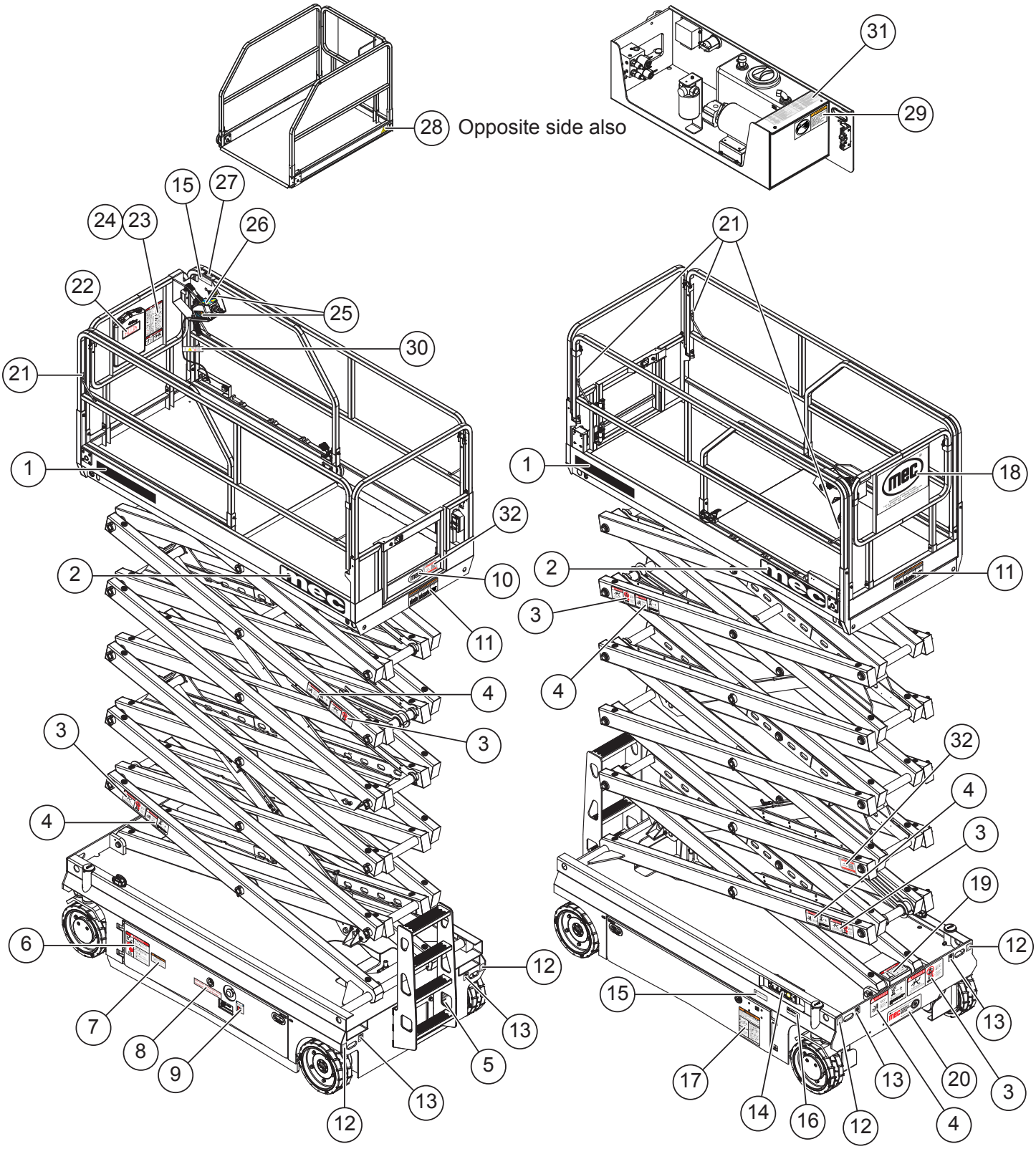


43879 Qty. - 1

33

95258 Qty. - 1

Decal Locations - 4046SE, 4555SE



1

4046SE

94258 Qty. - 2

2

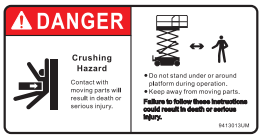
mec

94114 Qty. - 2

3

41748 Qty. - 5

4



41646 Qty. - 5

5

94113 Qty. - 1

6

41641 Qty. - 1

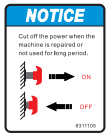
7

41644 Qty. - 1

8

94659 Qty. - 1

9



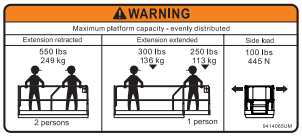
41637 Qty. - 1

10

mec

94115 Qty. - 1

11



41665 Qty. - 2

12

41635 Qty. - 4

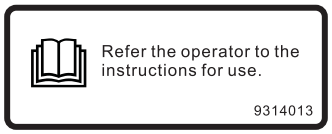
13

41634 Qty. - 4

14

41631 Qty. - 1

15



41639 Qty. - 2

16

41636 Qty. - 1

17

41649 Qty. - 1

18

90719 Qty. - 1

19

41642 Qty. - 1

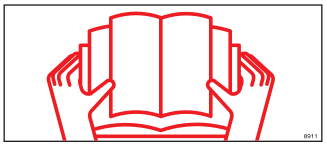
20

94423 Qty. - 1

21

41648 Qty. - 4

22



8911 Qty. - 1

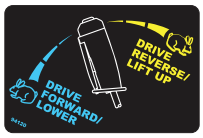
23

41652 Qty. - 1

24

41647 Qty. - 1

25



94120 Qty. - 2

26

41632 Qty. - 1

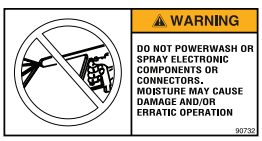
27

41640 Qty. - 1

28

91850 Qty. - 2

29



90732 Qty. - 1

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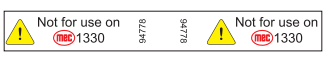


94778 Qty. - 1

31

43879 Qty. - 1

32

95259 Qty. - 2

1

4555 SE

94117 Qty. - 2

2

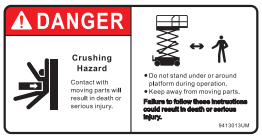
mec

94114 Qty. - 2

3

41748 Qty. - 5

4



41646 Qty. - 5

5

94113 Qty. - 1

6

41641 Qty. - 1

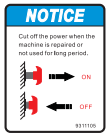
7

41644 Qty. - 1

8

94659 Qty. - 1

9



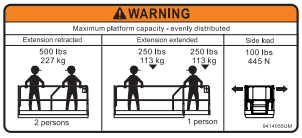
41637 Qty. - 1

10

mec

94115 Qty. - 1

11



41650 Qty. - 2

12

41635 Qty. - 4

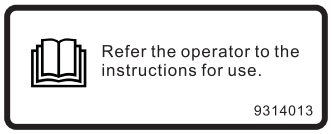
13

41634 Qty. - 4

14

41631 Qty. - 1

15



41639 Qty. - 2

16

41636 Qty. - 1

17

41649 Qty. - 1

18

90719 Qty. - 1

19

41642 Qty. - 1

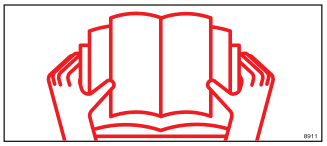
20

94423 Qty. - 1

21

41648 Qty. - 4

22



8911 Qty. - 1

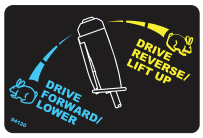
23

41652 Qty. - 1

24

41647 Qty. - 1

25



94120 Qty. - 2

26

41632 Qty. - 1

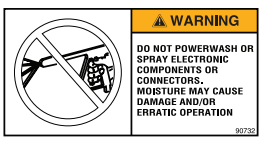
27

41640 Qty. - 1

28

91850 Qty. - 2

29



90732 Qty. - 1

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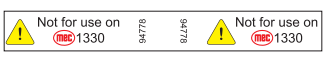

94778 Qty. - 1

31

43879 Qty. - 1

32

95260 Qty. - 2

MEC Parts Order Form

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

Please fill out completely

Date: _____

Account: _____

Bill to: _____

_____

_____

_____

Ordered By: _____

Your Fax No.: _____

Ship to: _____

_____

_____

_____

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

Ship VIA _____
**Fed Ex shipments require Fed Ex account number

Part Number	Description	Quantity	Price

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

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

_____

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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