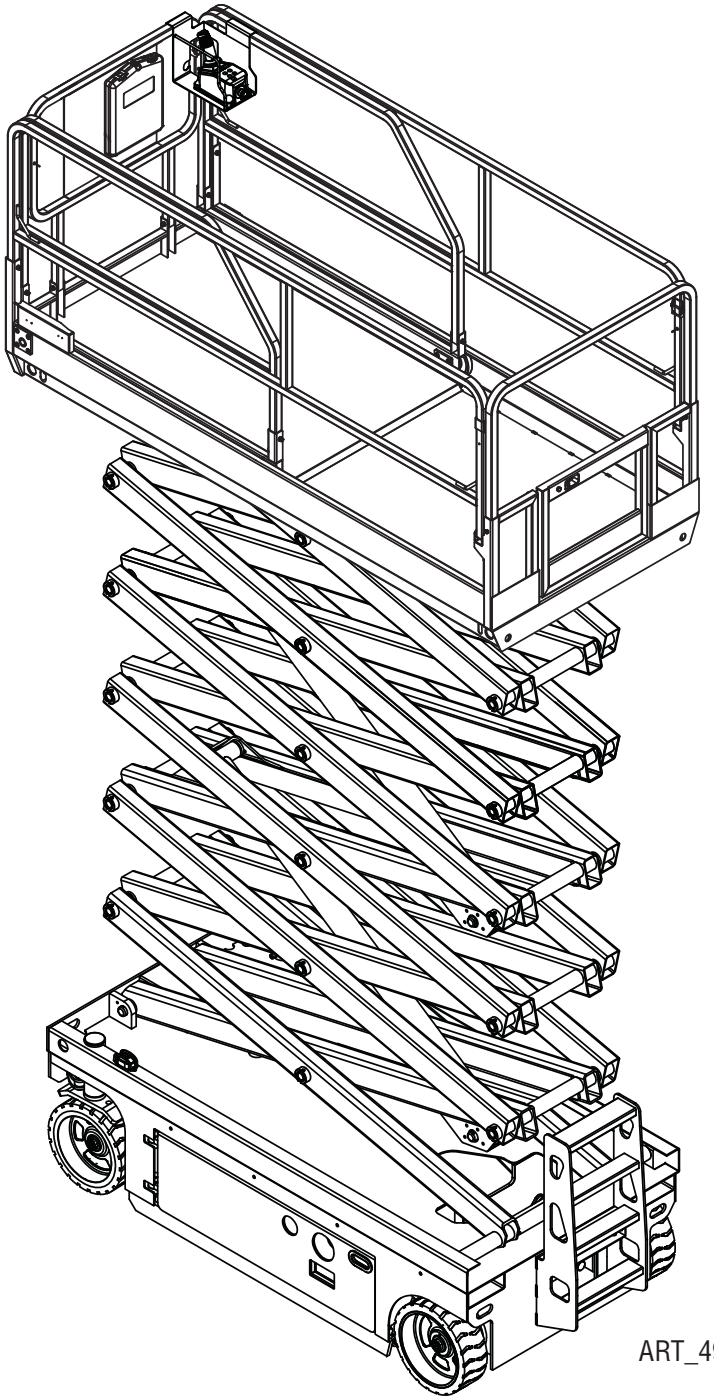
Service & Parts Manual

SE Series Slab Scissors



ART_4908

This manual applies to machines ANSI A92.20-2020 and CSA B354.6-2019.

1930SE Serial Number Range 16402100 - Up
2632SE Serial Number Range 16500900 - Up
3346SE Serial Number Range 16600600 - Up
4046SE Serial Number Range 16701300 - Up
4555SE Serial Number Range 16801400 - Up

Part # 95918
November 2026

Revision History

Date	Reason for Update
January 2022	New Release
December 2024	Updated 6V and 12V battery diagram
September 2025	Added “Lift & Steer Pressure Test” on page 34.
November 2025	Added 41137 to page 129.
November 2026	Added 44599 to page 125.

MEC Aerial Work Platforms

1401 S. Madera Avenue, Kerman, CA 93630 USA
Toll Free: 1-877-632-5438
Phone: 1-559-842-1500
Fax: 1-559-842-1520
info@MECawp.com
www.MECawp.com

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Service Introduction

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

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

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

MEC Operator Policy

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

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

DANGER

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

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

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

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

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

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

MEC Aerial Work Platforms

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Toll Free: 1-877-632-5438
Phone: 1-559-842-1500
Fax: 1-559-842-1520
info@MECawp.com
www.MECawp.com

Safety Symbols & General Safety Tips

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

DANGER	**RED and the word DANGER – Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**
WARNING	**ORANGE and the word WARNING – Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**
CAUTION	**YELLOW with alert symbol and the word CAUTION – Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.**
CAUTION	**YELLOW without alert symbol and the word CAUTION – Indicates a potentially hazardous situation which, if not avoided, may result in property damage.**
NOTICE	**GREEN and the word NOTICE – Indicates operation or maintenance information.**

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

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

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

Specifications - 1930SE, 2632SE, 3346SE

		1930SE		2632SE		3346SE	
Working Height*	Indoor	25 ft	7.8 m	32.2 ft	10 m	38.8 ft	12 m
	Outdoor	25 ft	7.8 m	26 ft	8 m	32 ft	10 m
Platform Height	Indoor	19 ft	5.8 m	26.2 ft	8 m	32.8 ft	10 m
	Outdoor	19 ft	5.8 m	20 ft	6.1 m	26 ft	8 m
Maximum Drive Height		19 ft	5.8 m	26.2 ft	8 m	32.8 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		43.3 in	1.1 m	43.5 in	1.11 m	43.5 in	1.11 m
Toeboard Height		6 in	15 cm	6 in	15 cm	6 in	15 cm
Machine Weight** (Unloaded)		3,440 lb	1,560 kg	4,870 lb	2,210 kg	5,670 lb	2,570 kg
Maximum Lift Capacity		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	Indoor	2 Persons		2 Persons		2 Persons	
	Outdoor	1 Person		1 Person		1 Person	
Manual Force	Indoor	90 lbs	400 N	90 lbs	400 N	90 lbs	400 N
	Outdoor	45 lbs	200 N	45 lbs	200 N	45 lbs	200 N
Length-Stowed (Overall)		74 in	1.86 m	97 in	2.46 m	97 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		0.625 in	1.6 cm	0-0.7 in	2 cm	0-0.7 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		1,180 lb	535 kg	1,600 lb	725 kg	1,900 lb	860 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		38 ft-lbs / 51 Nm dry		65 ft-lbs / 88 Nm dry		65 ft-lbs / 88 Nm dry	
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, 210 Ah		Four 6-Volt deep cycle, 210 Ah	
Chassis Inclination		1.5 Side	3.0 Inline	1.5 Side	3.0 Inline	1.5 Side	3.0 Inline

Meets applicable requirements of ANSI A92.20-2018.
*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*	Indoor	44.7 ft	13.6 m	51 ft	15.7 m
	Outdoor	36 ft	11 m	41 ft	12.5 m
Platform Height	Indoor	38.7 ft	11.8 m	45 ft	13.7 m
	Outdoor	30 ft	9.2 m	35 ft	10.7 m
Maximum Drive Height		38.7 ft	11.8 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)		7,000 lb	3,180 kg	7,600 lb	3,450 kg
Maximum Lift Capacity		550 lb	250 kg	500 lb	227 kg
Deck Extension Capacity		1 Person / 250 lb (113 kg)		1 Person / 250 lb (113 kg)	
Maximum Occupants	Indoor	2 Persons		2 Persons	
	Outdoor	1 Person		1 Person	
Manual Force	Indoor	90 lbs	400 N	90 lbs	400 N
	Outdoor	45 lbs	200 N	45 lbs	200 N
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		2,250 lb	1,020 kg	2,400 lb	1,090 kg
Occupied Floor Pressure		255 psf	1,240 kg/m^2	194 psf	947 kg/m^2
Maximum Operating Wind Speed		28 mph, 12.5 m/sec (45 km/h)		28 mph, 12.5 m/sec (45 km/h)	
Tire Size		15 × 5 inch/381 × 127 mm		15 × 5 inch/381 × 127 mm	
Wheel Bolt Torque		65 ft-lbs / 88 Nm dry		65 ft-lbs / 88 Nm dry	
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	
Chassis Inclination		1.5 Side	3.0 Inline	1.5 Side	3.0 Inline

Meets applicable requirements of ANSI A92.20-2018.
*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.

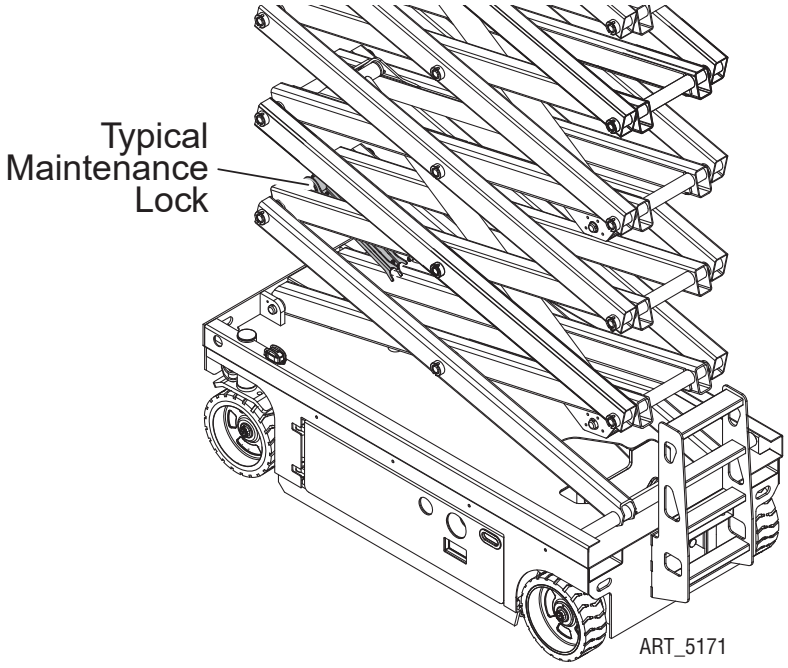
1. Raise the platform approximately just high enough to rotate the Maintenance Lock into place.
2. Lift the Maintenance Lock, move it to the center of the scissor arm, then rotate it up to a vertical position.

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.

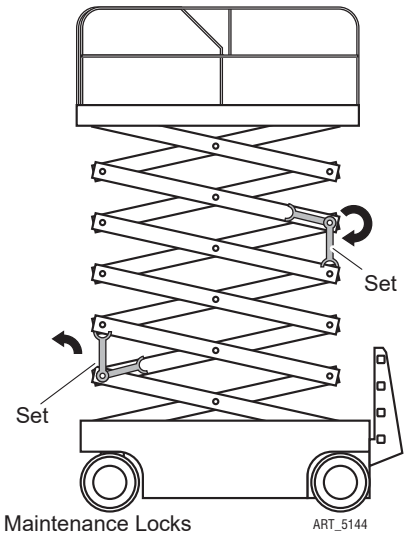
Setting The Maintenance Locks

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.

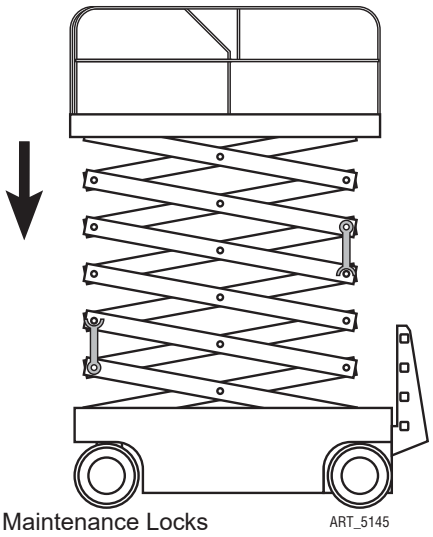
CAUTION

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

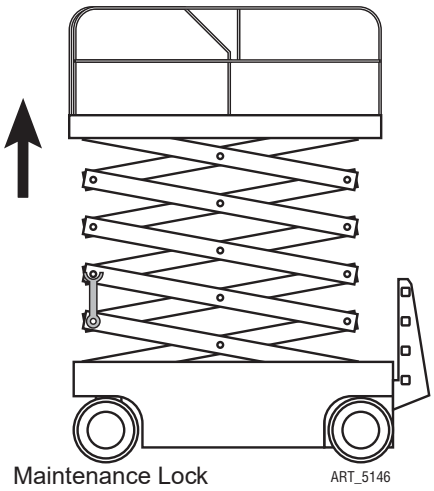
CAUTION

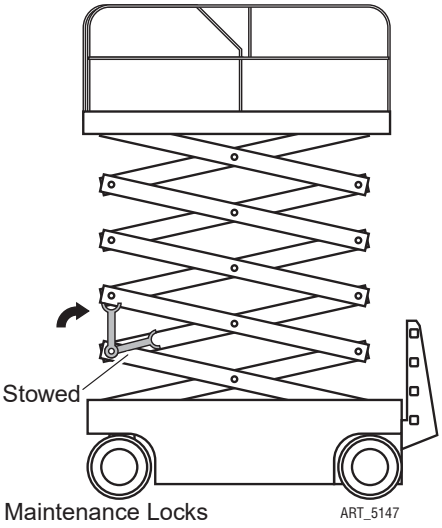
BOTH Maintenance Locks must be stowed before lowering the platform

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

1. Raise the platform approximately 1 ft / 0.3 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

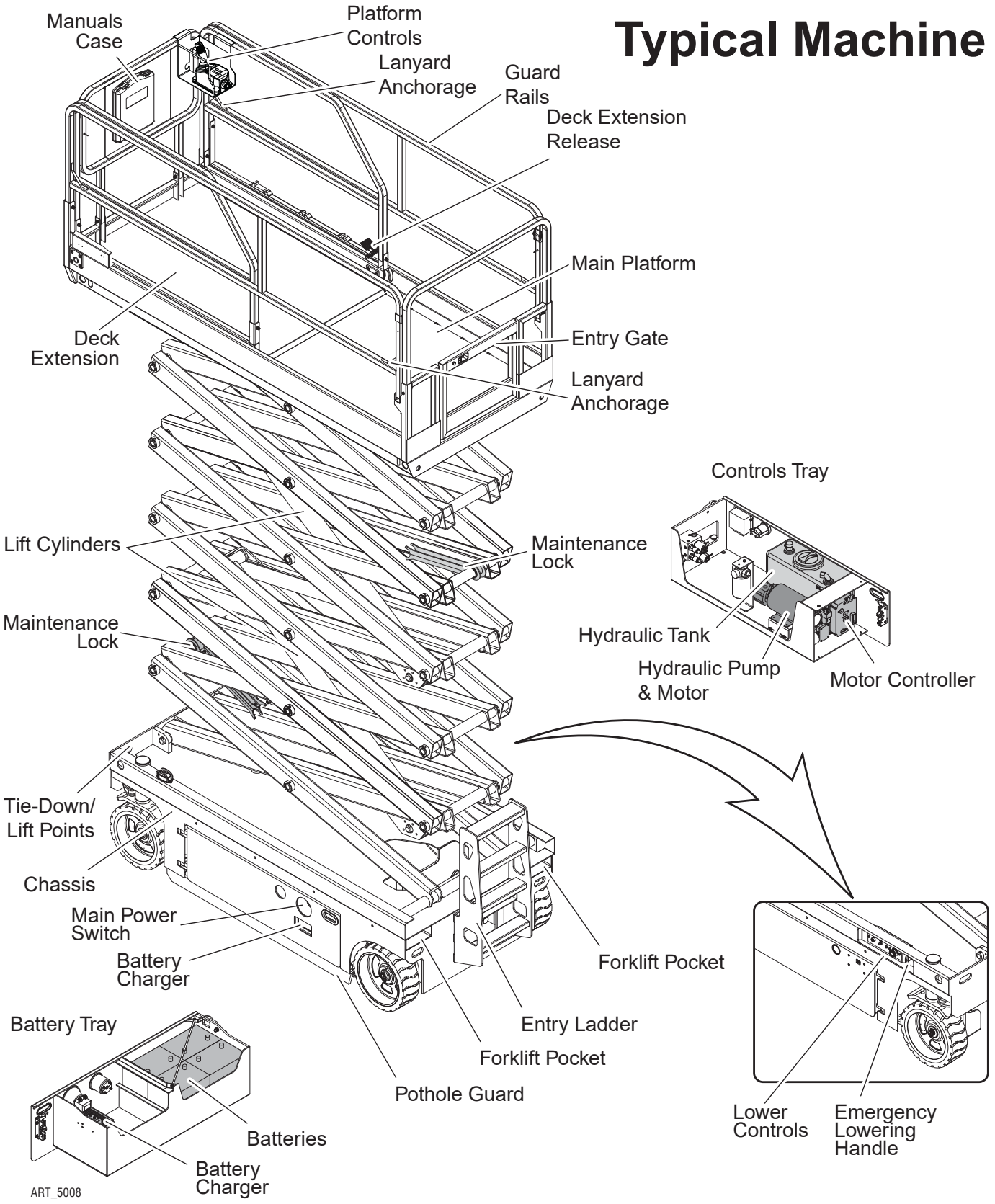
FAILURE TO PERFORM PREVENTIVE MAINTENANCE AT RECOMMENDED INTERVALS MAY RESULT IN THE UNIT BEING OPERATED WITH A DEFECT THAT COULD RESULT IN INJURY OR DEATH OF THE OPERATOR.

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

Typical Machine



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

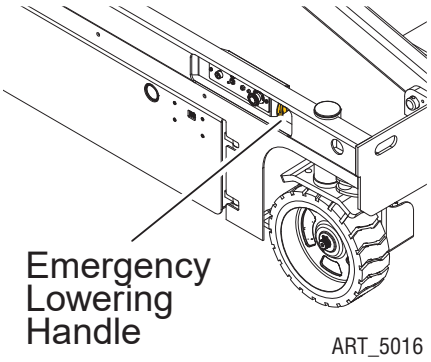


ART_3353

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

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

Emergency Lowering



ART_5016

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.

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:

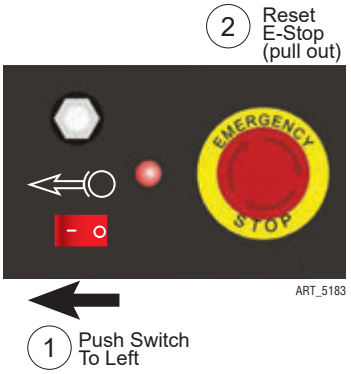
- 1930SE - 0.5 mph
- 2632SE, 3346SE, 4046SE, 4555SE - 2.5 MPH (4 km/h)

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.

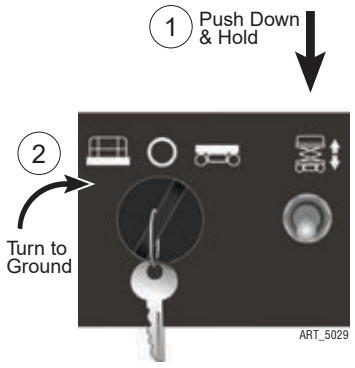


Resetting Brakes

- 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.

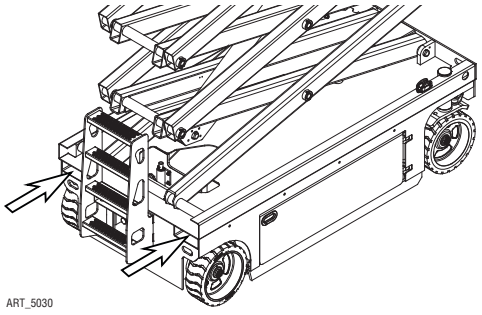
Before driving or winching the machine:
- Attach the machine to a winch.
- Remove all machine tie downs. Remove wheel chocks.

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.

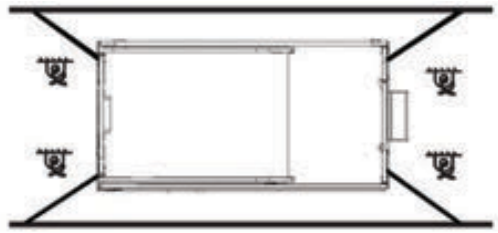

ART_5030

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.

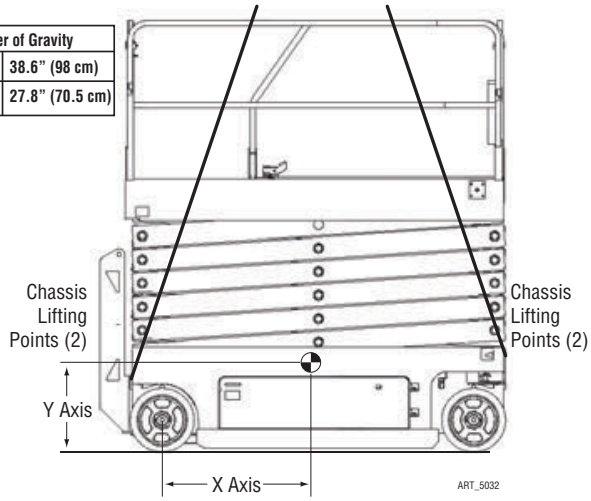
WARNING

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

Center of Gravity	
X Axis	38.6" (98 cm)
Y Axis	27.8" (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.

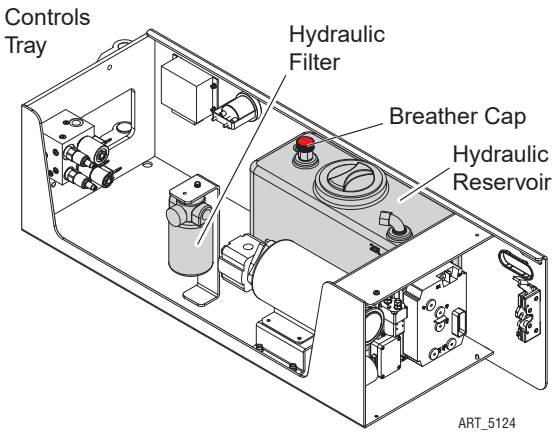
1. Check the tire surface and sidewalls for cuts, cracks and unusual wear.
2. Check each wheel for damage, bends and cracks.
3. Check each wheel bolt for proper torque (38 ft-lbs/51 Nm dry).

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!

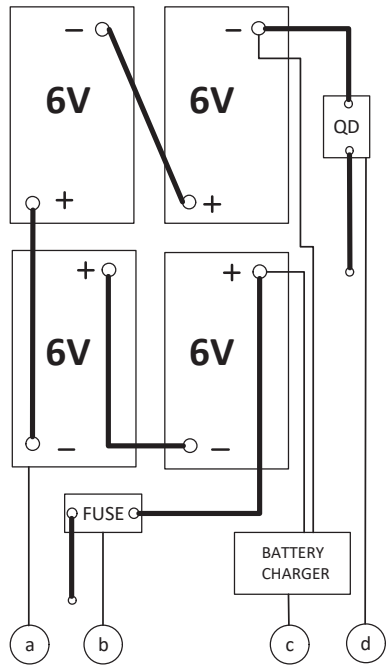
1. Put on protective clothing and eye wear.
2. Open the Battery Module.
3. Be sure that the battery cable connections are free of corrosion.

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.

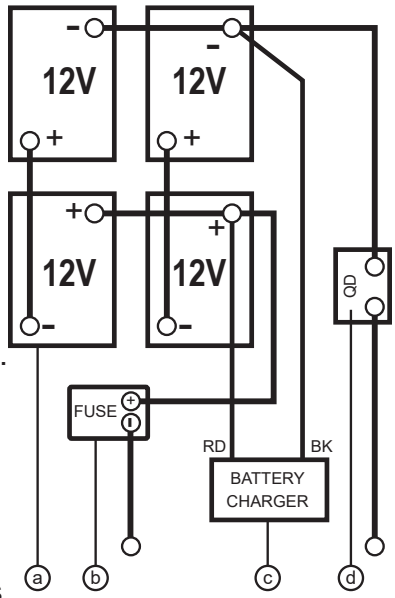
- **Result:** The charger should operate and begin charging the batteries.
- **Result:** If simultaneously, the charger alarm sounds and the LEDs blink, consult the Troubleshooting section for charger flash code troubleshooting.

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

ART_5859



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

ART_5120

Electrical Wiring

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

WARNING

ELECTROCUTION / BURN HAZARD. CONTACT WITH ELECTRICALLY CHARGED CIRCUITS COULD RESULT IN DEATH OR SERIOUS INJURY.

REMOVE ALL RINGS, WATCHES AND OTHER JEWELRY.

1. Inspect the 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.

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.

Test the Indoor/Outdoor

Note: Perform this test from the ground with the platform controller. Do not stand in the platform. Make sure there is safe height clearance and no overhead obstruction or electrical power wires.

1. Turn the key switch to ground control position.
2. Turn the Indoor/Outdoor switch to Outdoor position.
3. Move up and hold the platform up / down switch. Raise the platform to the highest position and

measure the platform height.
- **Result:** The platform height shall not exceed 19 ft/5.8 m (1930SE), 20 ft/6.1 m (2632SE), 26 ft/8 m (3346SE), 30 ft/9.2 m (4046SE), 35 ft/10.7 m (4555SE).

4. Turn the Indoor/Outdoor switch to Indoor position.
5. Move up and hold the platform up / down switch. Raise the platform to the highest position and measure the platform height
   - **Result:** The platform height shall not exceed 19 ft/5.8 m (1930SE), 26.2 ft/8 m (2632SE), 32.8 ft/10 m (3346SE), 38.7 ft/11.8 m (4046SE), 45 ft/13.7 m (4555SE).
6. Turn the Indoor/Outdoor switch to Outdoor position.
   - **Result:** The alarm should sound.
7. Turn the Indoor/Outdoor switch to Indoor position fully lower the platform.
8. Turn the key switch to platform control position.
9. Turn the Indoor/Outdoor switch to Outdoor position.
10. Press the lift function select button.
11. Press and hold the function enable switch on the control handle.
12. Slowly move the control handle in the direction indicated by the yellow arrow. Raise the platform to the highest position and measure the platform height
    - **Result:** The platform height shall not exceed 19 ft/5.8 m (1930SE), 20 ft/6.1 m (2632SE), 26 ft/8 m (3346SE), 30 ft/9.2 m (4046SE), 35 ft/10.7 m (4555SE).
13. Turn the Indoor/Outdoor switch to Indoor position
14. Press and hold the function enable switch on the control handle.
15. Slowly move the control handle in the direction indicated by the yellow arrow. Raise the platform to the highest position and measure the platform height
    - **Result:** The platform height shall not exceed 19 ft/5.8 m (1930SE), 26.2 ft/8 m (2632SE), 32.8 ft/10 m (3346SE), 38.7 ft/11.8 m (4046SE), 45 ft/13.7 m (4555SE).
16. Turn the Indoor/Outdoor switch to Outdoor position.
    - **Result:** The alarm should sound.

Turn the indoor/outdoor switch to indoor position. Fully lower the platform.

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

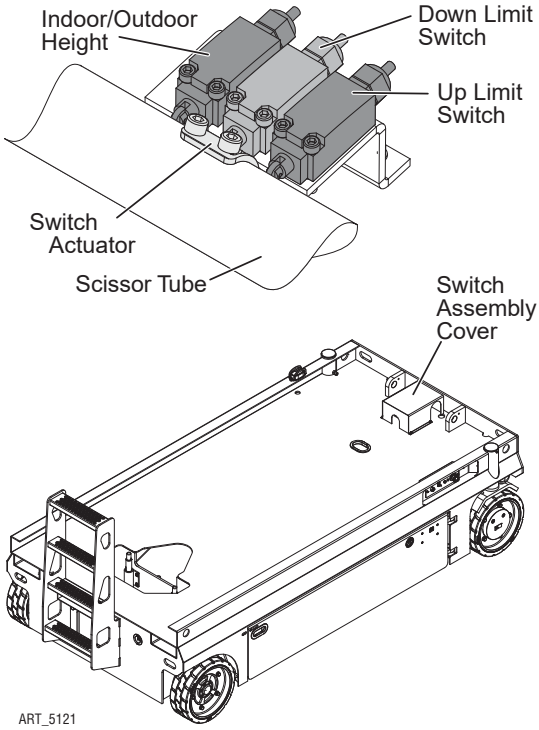
Maintaining the module tray latch components in good condition is essential to good performance and service life. Failure to detect worn out latch components may result in module trays opening unexpectedly, creating an unsafe operating condition.

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.

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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.

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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.

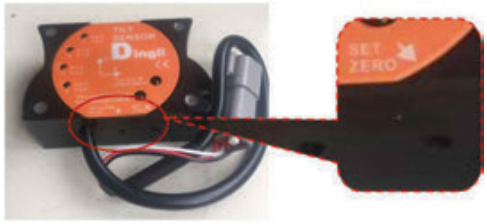
Calibration Instructions

The Platform Overload Sensing System may require calibration in the event of a malfunction or after the replacement of an Overload System component. Proper and correct calibration of the Overload system is critical for normal and trouble-free machine operation. Read and understand the instructions before beginning the calibration process.

Calibrate Tilt Sensor

1. Park the machine on flat level surface.

Note: Calibrating the level sensor requires that the machine be perfectly level on both the X and Y axis. An inclinometer should be used when ensuring level. Machine power must be on.



ART_5860

2. Using the diagram below, locate the “SET ZERO” button located on the side of the sensor. Press and hold the “SET ZERO” button until the LEDs alternate red and green flashes. Release the button
3. Press the “SET ZERO” button three times. The LEDs will turn off then only the green LED will illuminate. Calibration is complete.

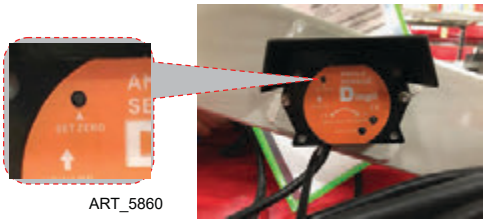
Calibrate Height Sensor

Note: Calibrate Overload System must be performed after calibrating height sensor to ensure proper and trouble-free machine operation.

1. Refer to the diagram below. Elevate the platform until the round scissor tube is exactly as the chart below specifies from the end of the slide channel, measuring on the top of the slide channel.
2. Referring to the diagram below, locate the height sensor, located inside the scissor beams. Press and hold the “SET ZERO” button until the two LEDs alternate red and green flash alternately. Release the button.
3. Press the “SET ZERO” button three times. If done correctly, the red light will flash followed by the green light flash followed by the green light illuminating solid. HEIGHT CALIBRATION COMPLETE.


ART_5860

MODEL	DISTANCE
MICRO26	7 in / 178mm
1930SE	6.75 in / 171mm
2632SE	8.5 in / 216mm
3346SE	9 in / 229mm
4046SE	9.25 in / 235mm
4555SE	11.5 in / 292mm


ART_5860

Calibrate Overload System

Note: The platform **will lift automatically** once the calibration has been initiated. Be sure that there are **no overhead obstructions** when choosing a location on which to calibrate the overload system.

Note: If a safety concern arises anytime during the automated lift/lower sequence, press the Emergency Stop switch immediately. The procedure can be restarted once the it is safe to do so.

Empty Platform Sequence

1. Park the machine on flat level surface. Machine power must be on. Ensure that the platform is completely empty and there are no 'extra' items attached to the platform or guard rails that may add weight to the platform beyond that of an empty platform.
2. Turn the key switch to the Platform position. This will prevent the platform from lifting during the next step.
3. Using the lower Lift Switch (located on the lower control panel) perform the following sequence of up and down movement of the toggle switch. Do not operate the switch so slowly as to hold the switch more than 2.5 seconds or the sequence will be terminated.
   a. Down 5 times
   b. Up 1 time
   c. Down 5 times
   d. Up 1 time
   e. Down 1 time
   f. Up 1 time
   g. Down 3 times
4. The process will be complete when the platform returns to the fully lowered and the horn stops sounding. Cycle Emergency Stop power and continue to the Loaded calibration steps.

Loaded Platform Sequence

1. Park the machine on flat level surface. Machine power must be on. Ensure that the platform is completely empty and there are no 'extra' items attached to the platform or guard rails that may add weight to the platform beyond that of an empty platform.
2. Place weight in the center of the platform equal to rated platform capacity (MICRO26/1930SE/2632SE/4555SE - 500LBS), (3346SE - 750LBS), (4046SE - 550LBS).
3. Turn the key switch to the Platform position. This will prevent the platform from lifting during the next step.
4. Using the lower Lift Switch (located on the lower control panel) perform the following sequence of up and down movement of the toggle switch. Do not operate the switch so slowly as to hold the switch more than 2.5 seconds or the sequence will be terminated.
   a. Down 5 times
   b. Up 1 time
   c. Down 5 times
   d. Up 1 time
   e. Down 5 time
5. The process will be complete when the platform returns to the fully lowered and the horn stops sounding. Once the Empty and the Loaded sequences are complete, the Platform Overload Calibration is complete. Remove weight from platform.

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.

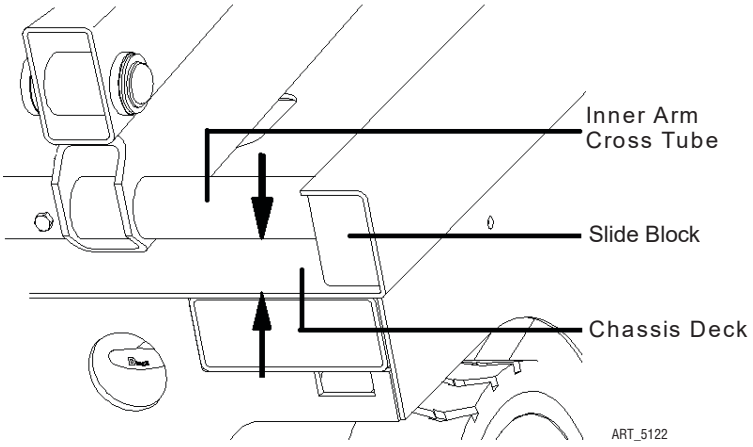
Perform all checks listed on Pre-Start Inspection and the Frequent Inspection, then check all items listed on the Annual Inspection Report. See specific instructions below.

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.

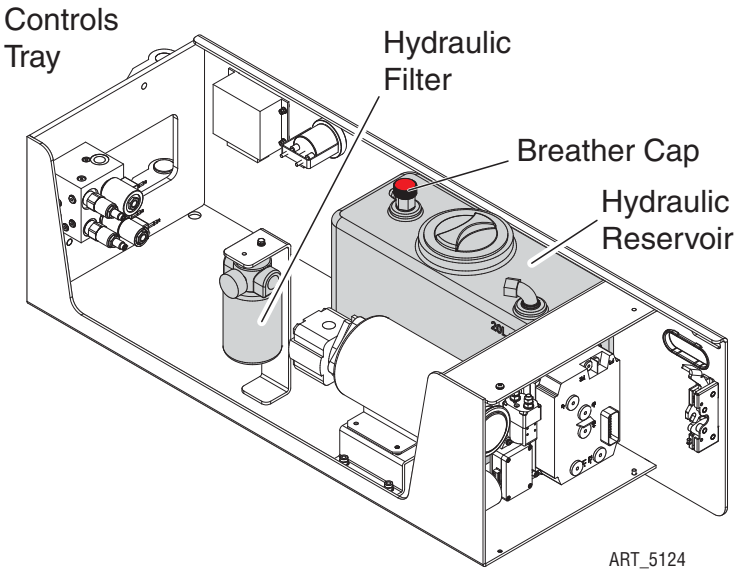
Hydraulic Oil Inspection/replacement

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.

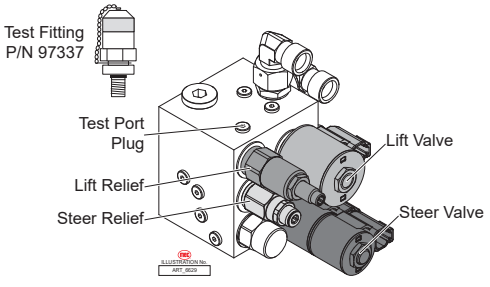
CAUTION

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.

Lift & Steer Pressure Test

Prepare For Pressure Test

Clean dirt and debris from the area around the test port plug. Remove Port Plug from manifold and insert Test Fitting (part number 43843) in place and tighten. After completing test and adjustments, remove the Test Fitting and reinstall the Port Plug.



Lift Pressure Test

Hydraulic Relief Valve Settings

Circuit	PSI	Bar
Lift	2175	150

Operate lift while pulling the Emergency Down Cable simultaneously. Record highest pressure within 5 seconds. Refer to table for Lift Pressure.

Steer Pressure Test

Hydraulic Relief Valve Settings

Circuit	PSI	Bar
Steer	1160	80

Pull the Joystick Enable Trigger then press and hold the right steer button until the pressure reaches the highest point (approximately 6 seconds). Refer to table for Steer Pressure.

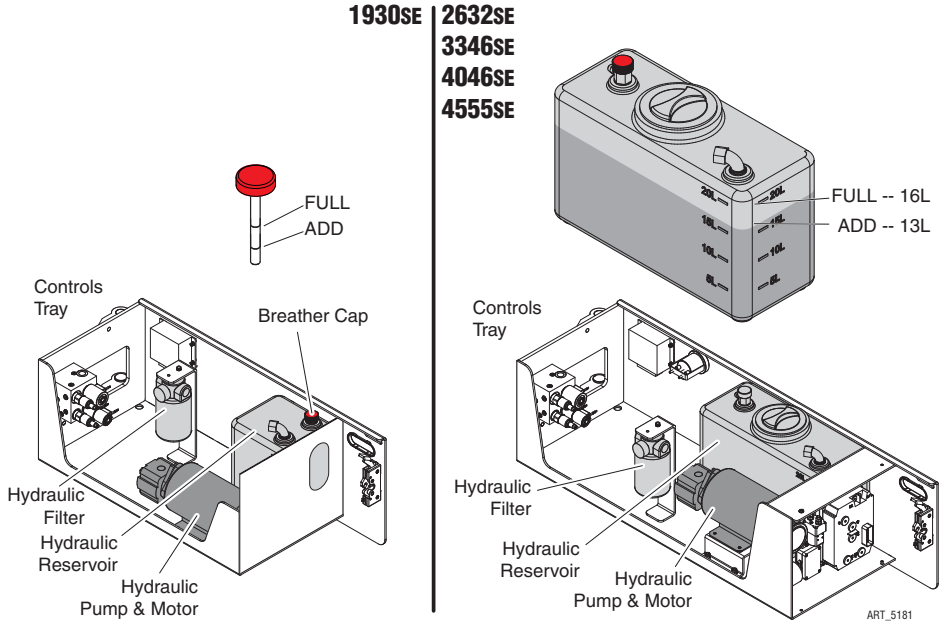
Adjust Relief Valve Setting

Refer to the Function Manifold diagram above for relief valve location.
Loosen the Jam Nut and turn the valve inner stem to change the pressure setting.

- Clockwise to increase pressure
- Counterclockwise to decrease pressure

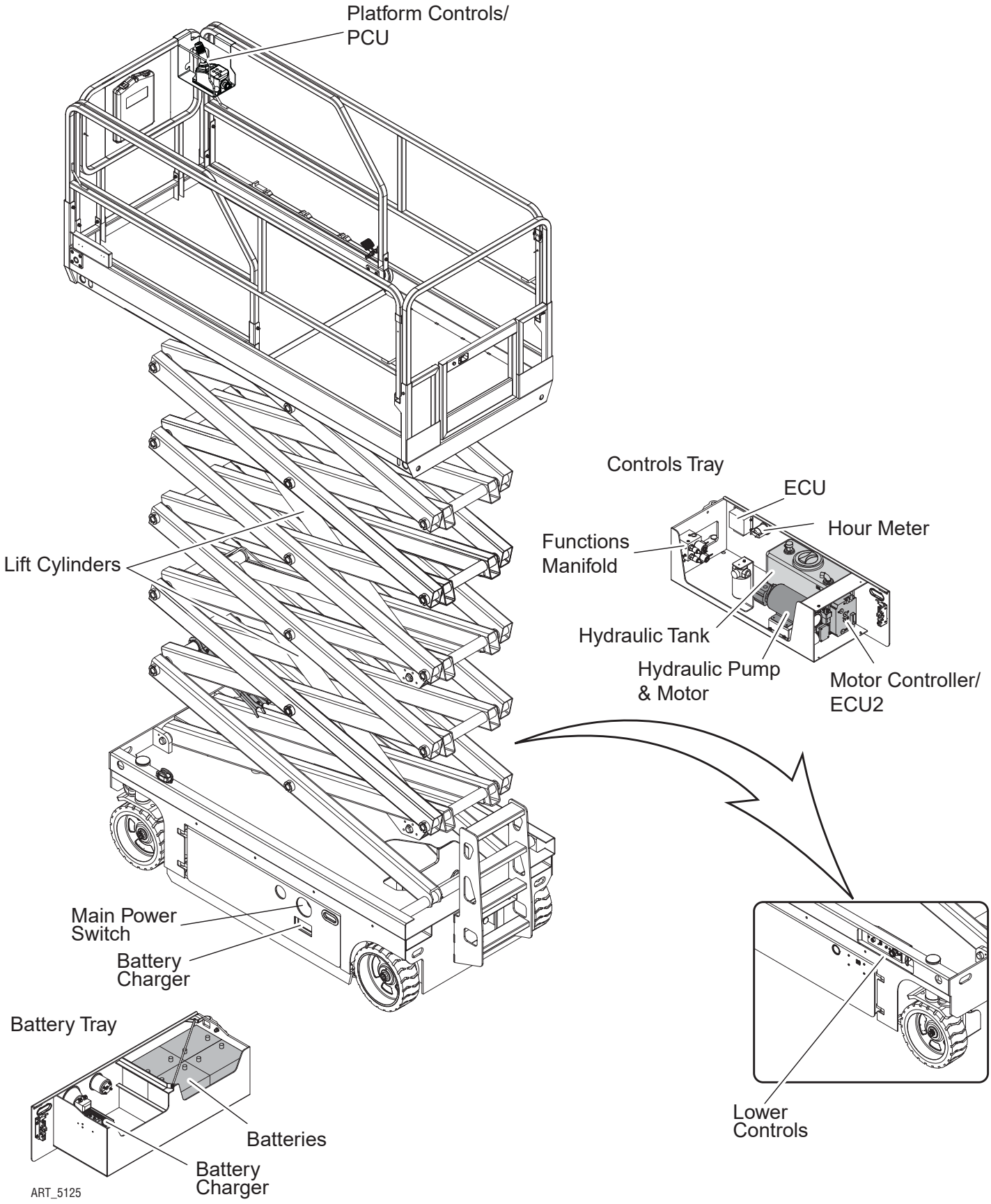
Lubrication

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



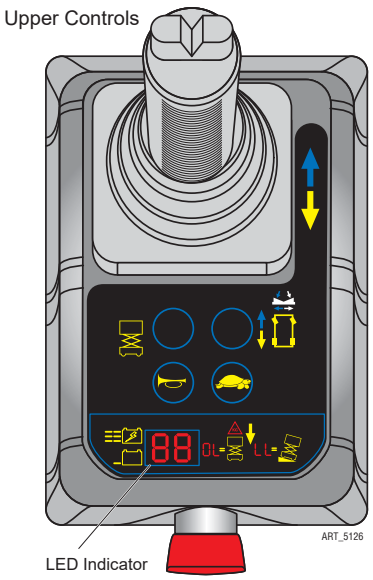
No.	Item	Specification	Frequency
1	Hydraulic Reservoir	Mobile Fluid DTE 10, DTE 13 M, or AW32 Do not substitute other fluids as pump damage may result. Check as shown above with platform in the stowed position. Fill as needed.	Routine Maintenance Check hydraulic oil level every week Scheduled Maintenance 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	Micro19	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)	Micro19	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.

Option Code For Machines		
Model	**Older**	**With Overload (Yellow Gate)**
MICRO19®	To Serial #16900460 58 From Serial #16900461 62	E2
MICRO19XD®	N/A	E3
MICRO26®	N/A	27
1930SE	58	--
2632SE, 3346SE, 4046SE, 4555SE	30, 26	A7
MME20, MME25	N/A	A7

Parameter Adjustment

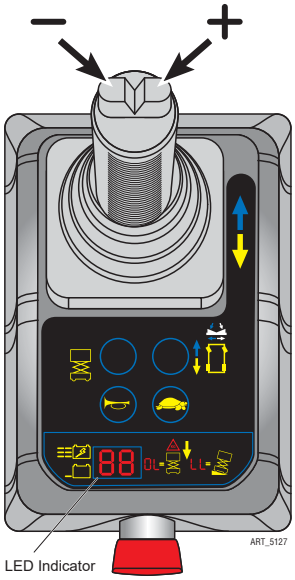
WARNING

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.

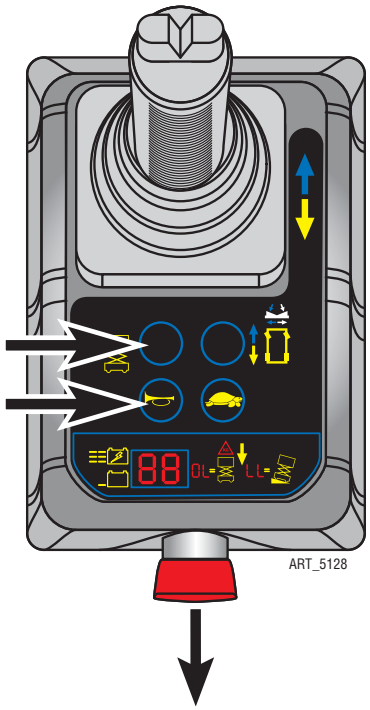
Change the setting by using the Steer Buttons on top of the control handle. The right button increases the setting. The left button decreases the setting.

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.

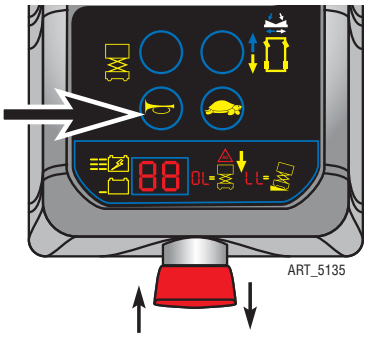


4. “PS” and the current Lift Speed setting will alternate on the LED Indicator.



Refer to the following pages for individual operating adjustments.

Saving New Values

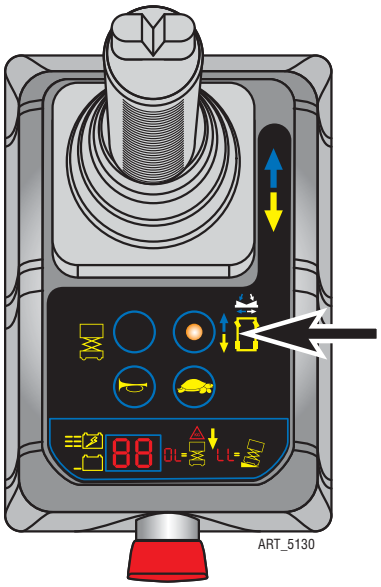


New values must be saved immediately after adjustment.

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.

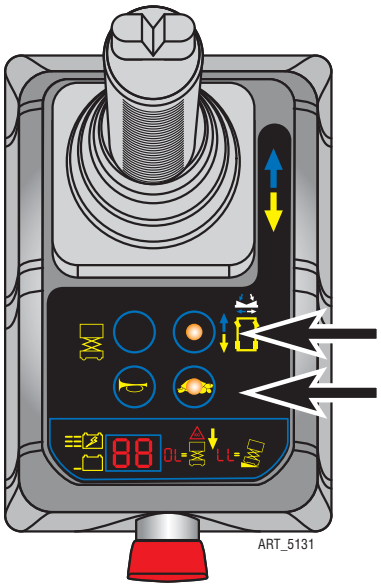
High Drive Speed



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).

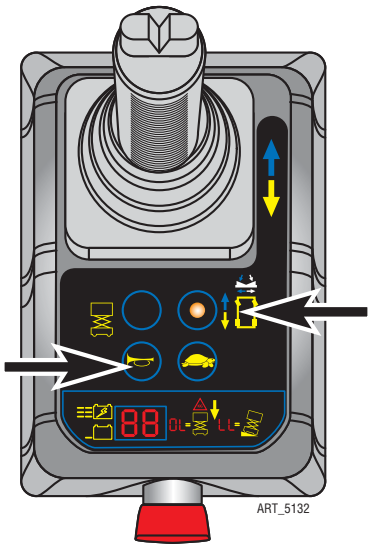
1. Press the Drive Mode Select button. The button will light up, indicating this mode is active.
2. Press and hold the Low Speed Mode Select button (turtle icon). The button will light up, and the LED Indicator will show the present setting.
3. Adjust the speed using the steer left and steer right buttons 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.



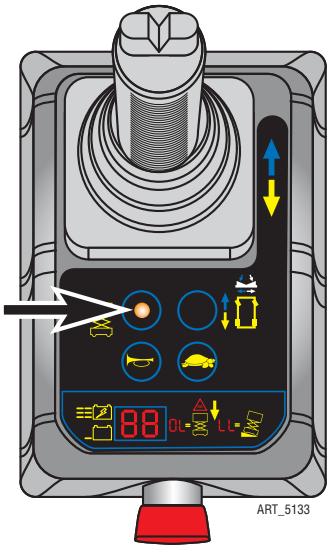
1. Press the Drive Mode Select button. The button will light up, indicating this mode is active.
2. Press and hold the Low Speed Mode Select button (turtle icon). The button will light up, indicating this mode is active.
3. Adjust the speed using the steer left and steer right buttons on top of the Control 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 41 for “Saving New Values“).

Lift Speed

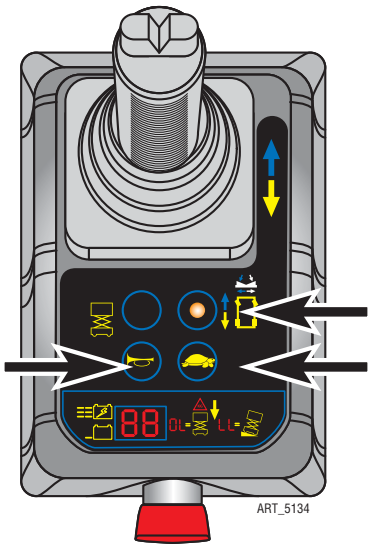
This parameter controls the speed at which the platform elevates.



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 41 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 41 for “Saving New Values“).

Hydraulic Schematic - 1930SE

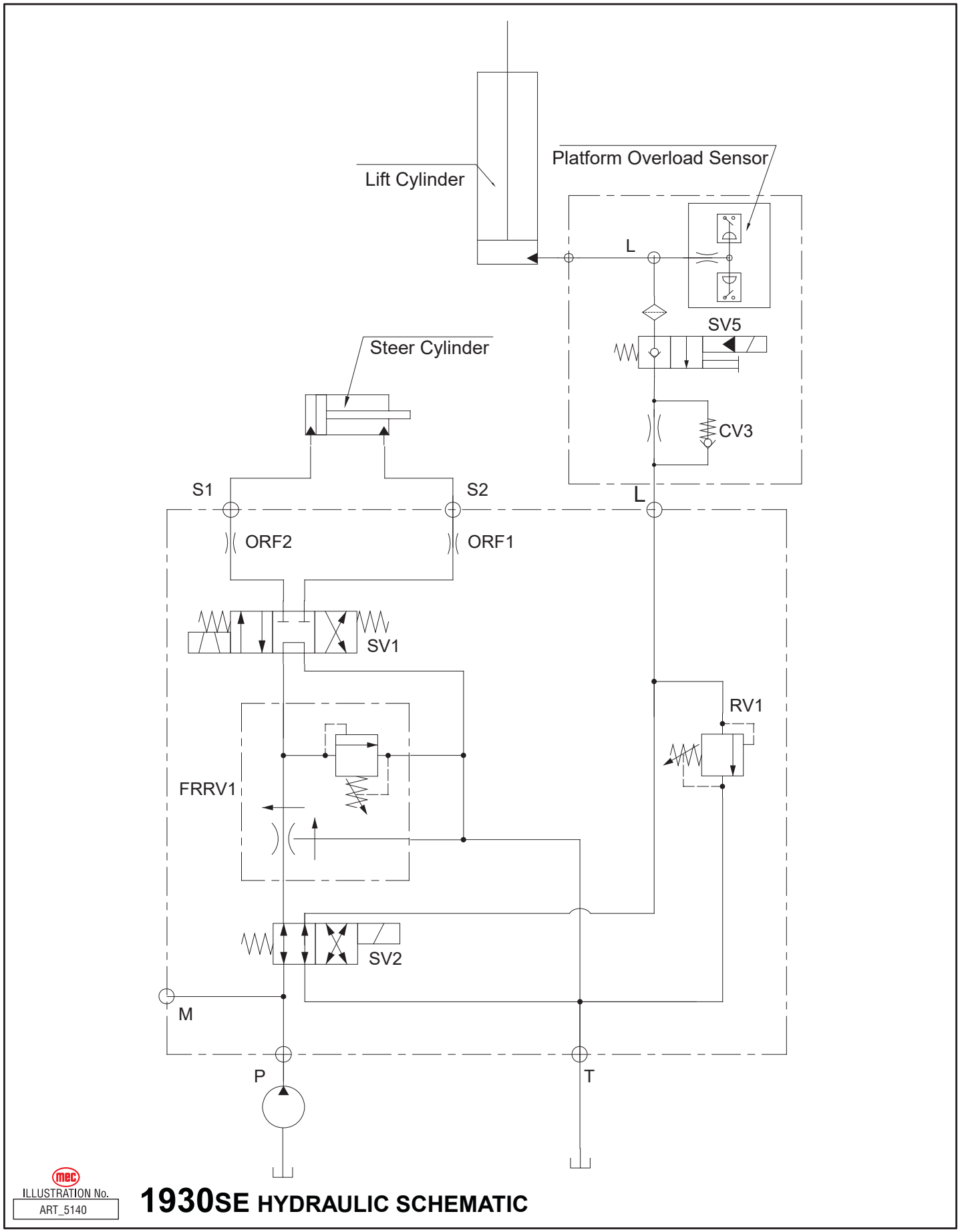


ILLUSTRATION No. ART_5140

1930SE HYDRAULIC SCHEMATIC

Hydraulic Components - 1930SE

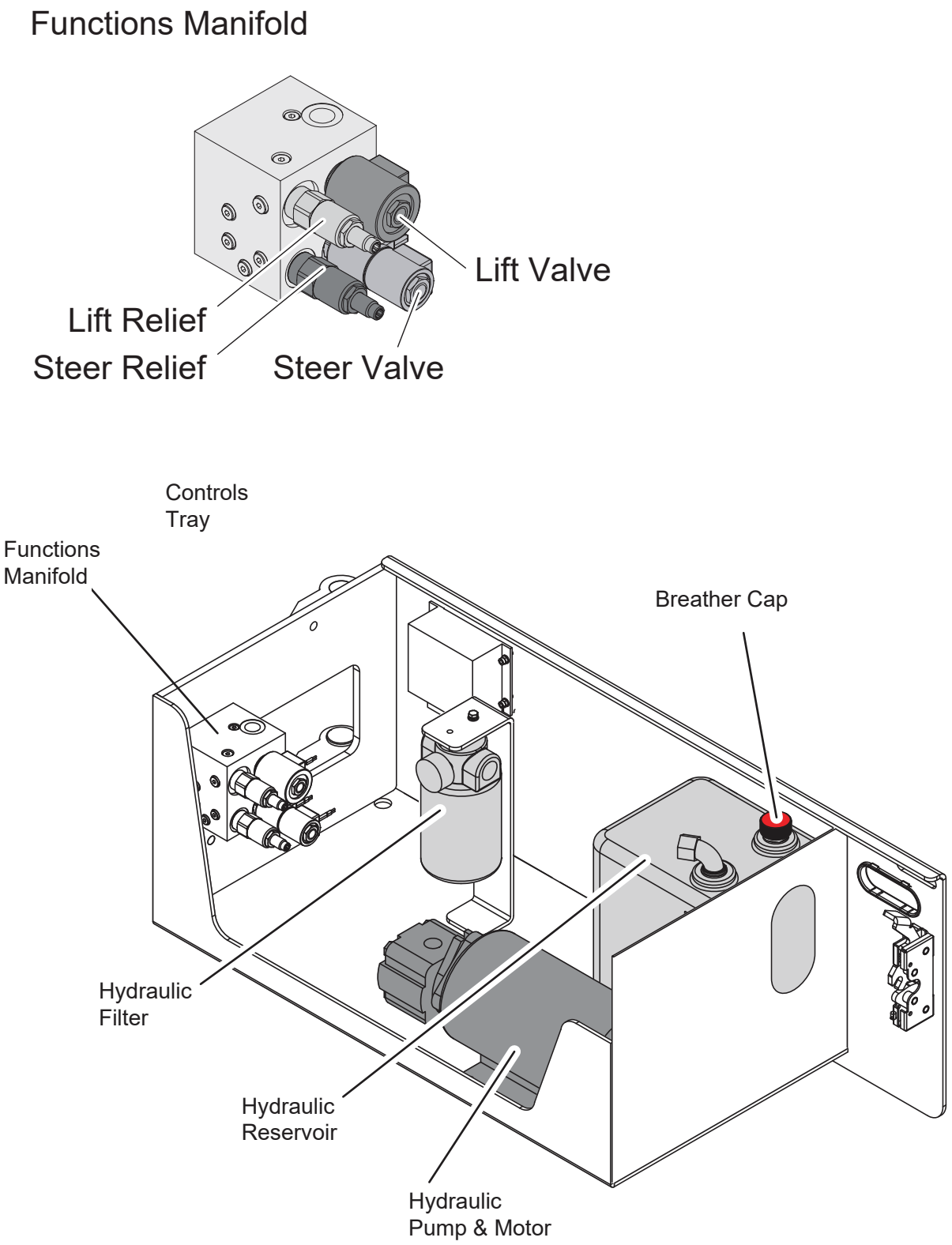


ILLUSTRATION No. ART_5136

1930SE HYDRAULIC COMPONENTS

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

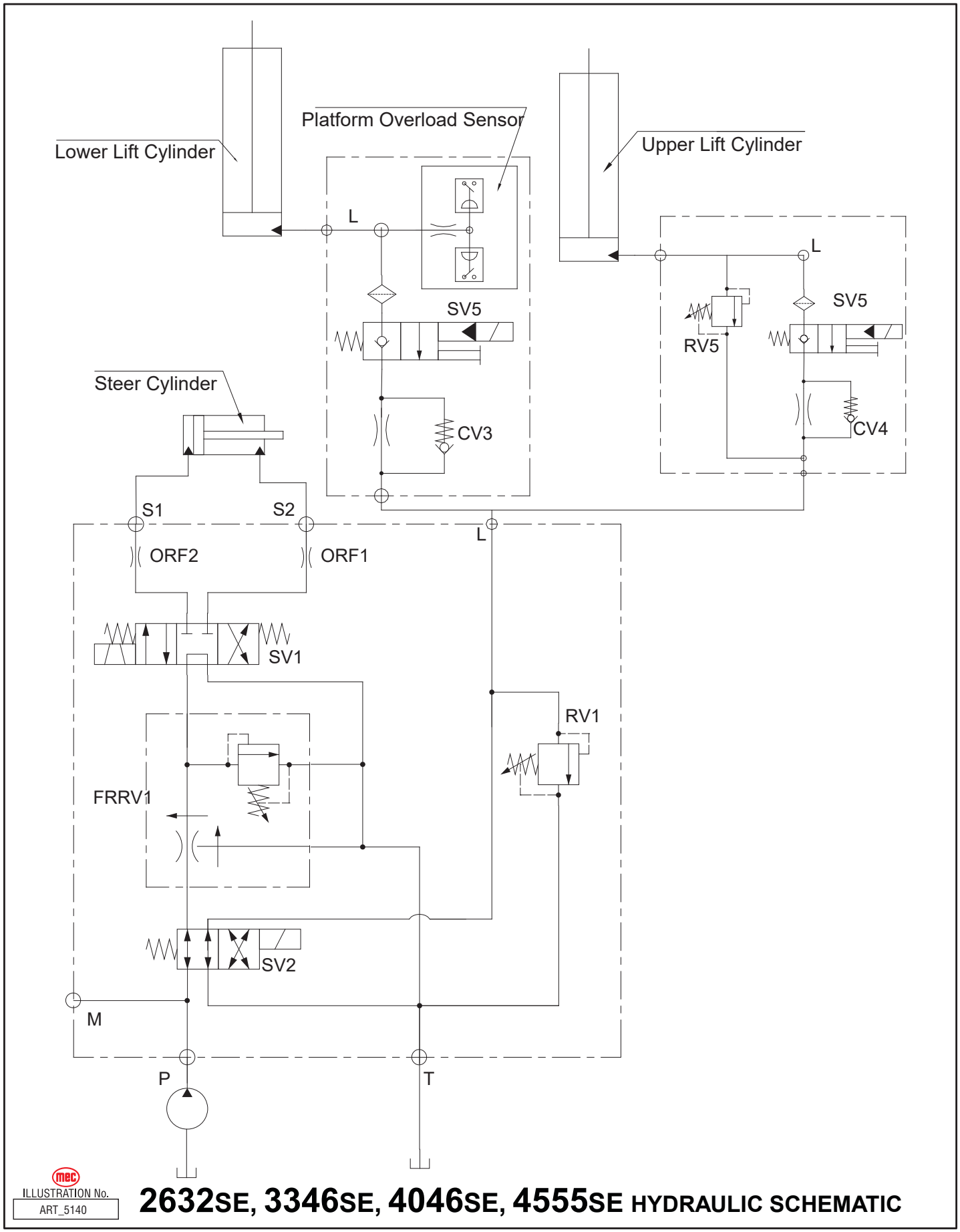


ILLUSTRATION No. ART_5140

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

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

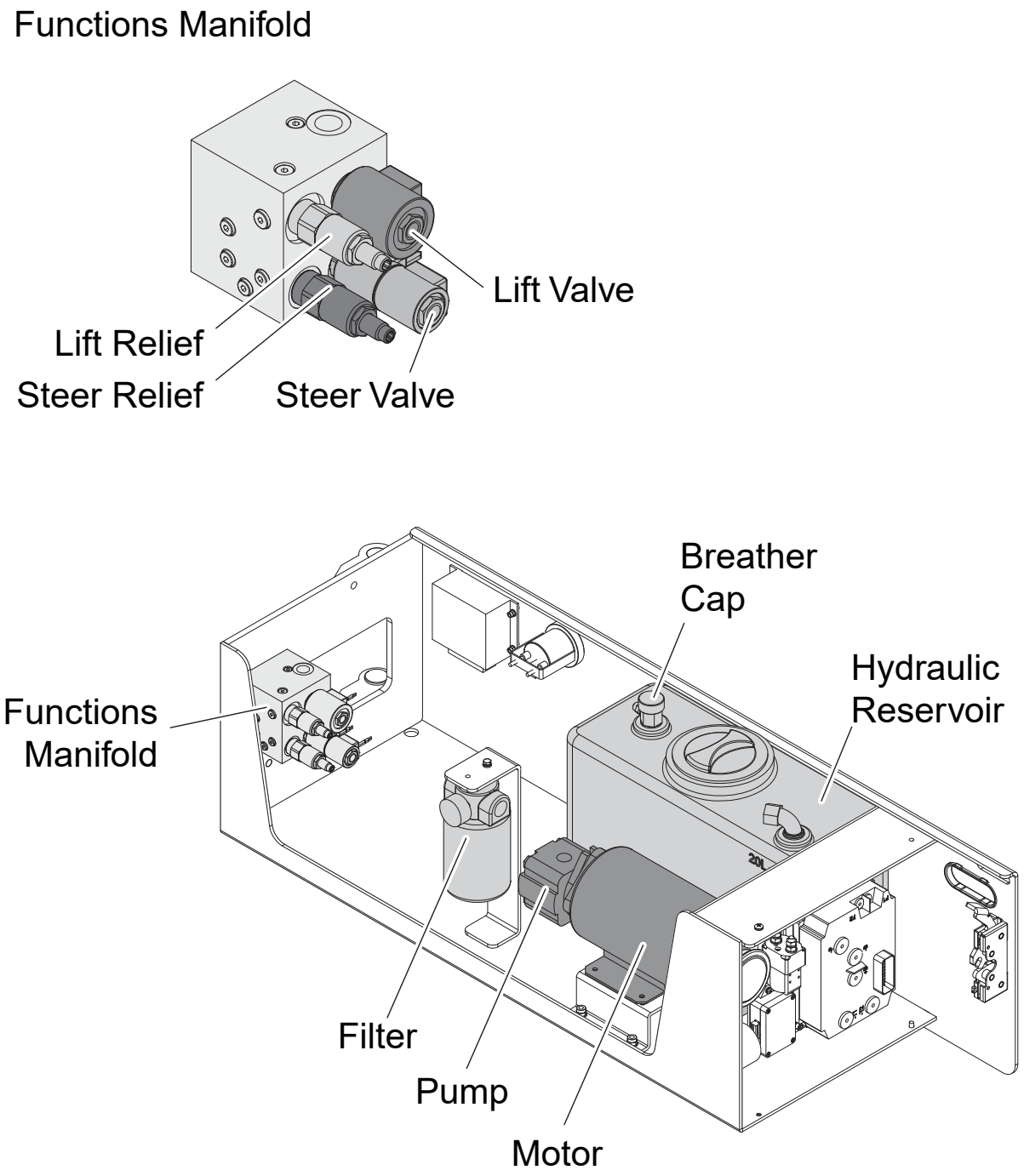


ILLUSTRATION No. ART_5136

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

Function Valves

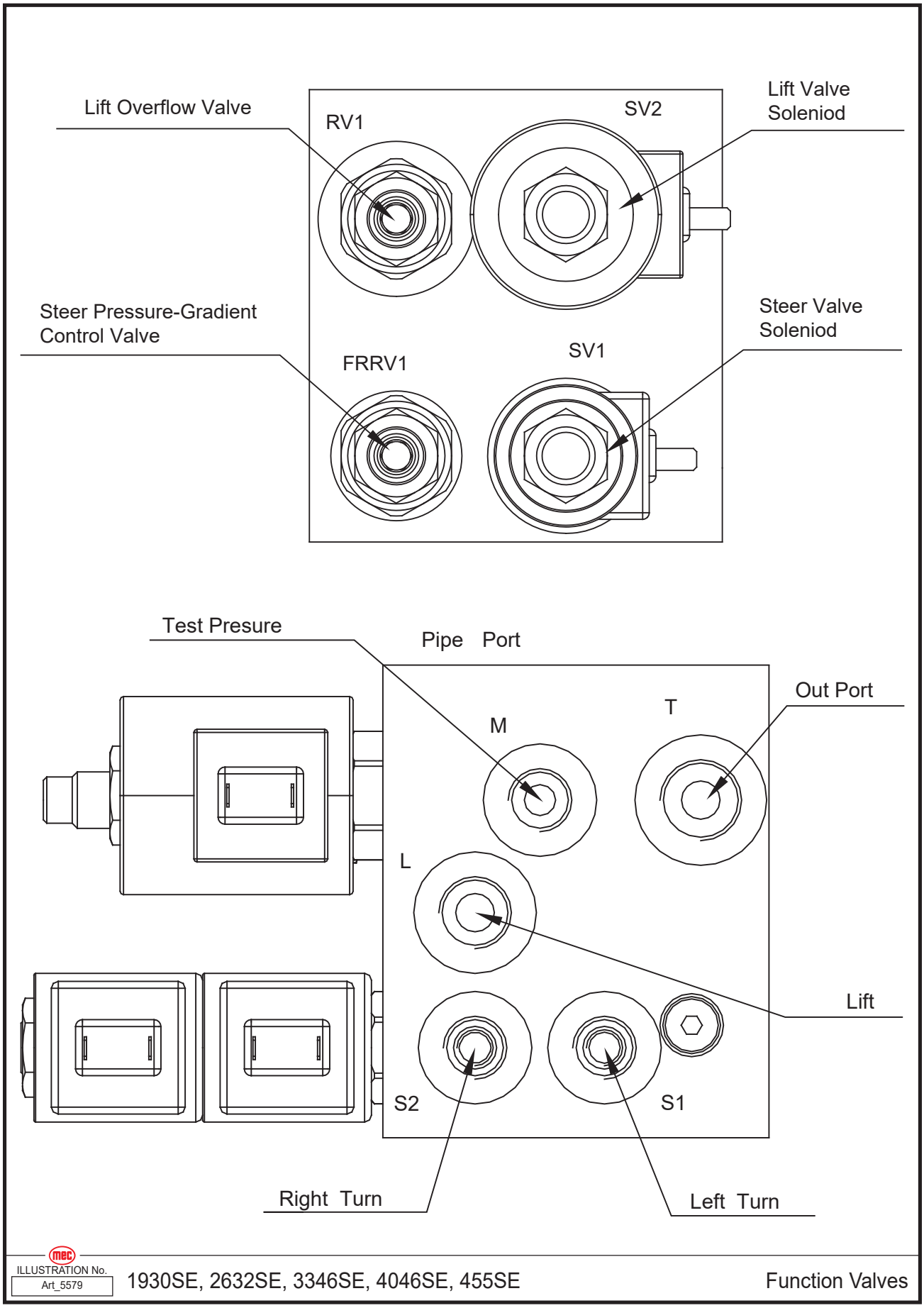
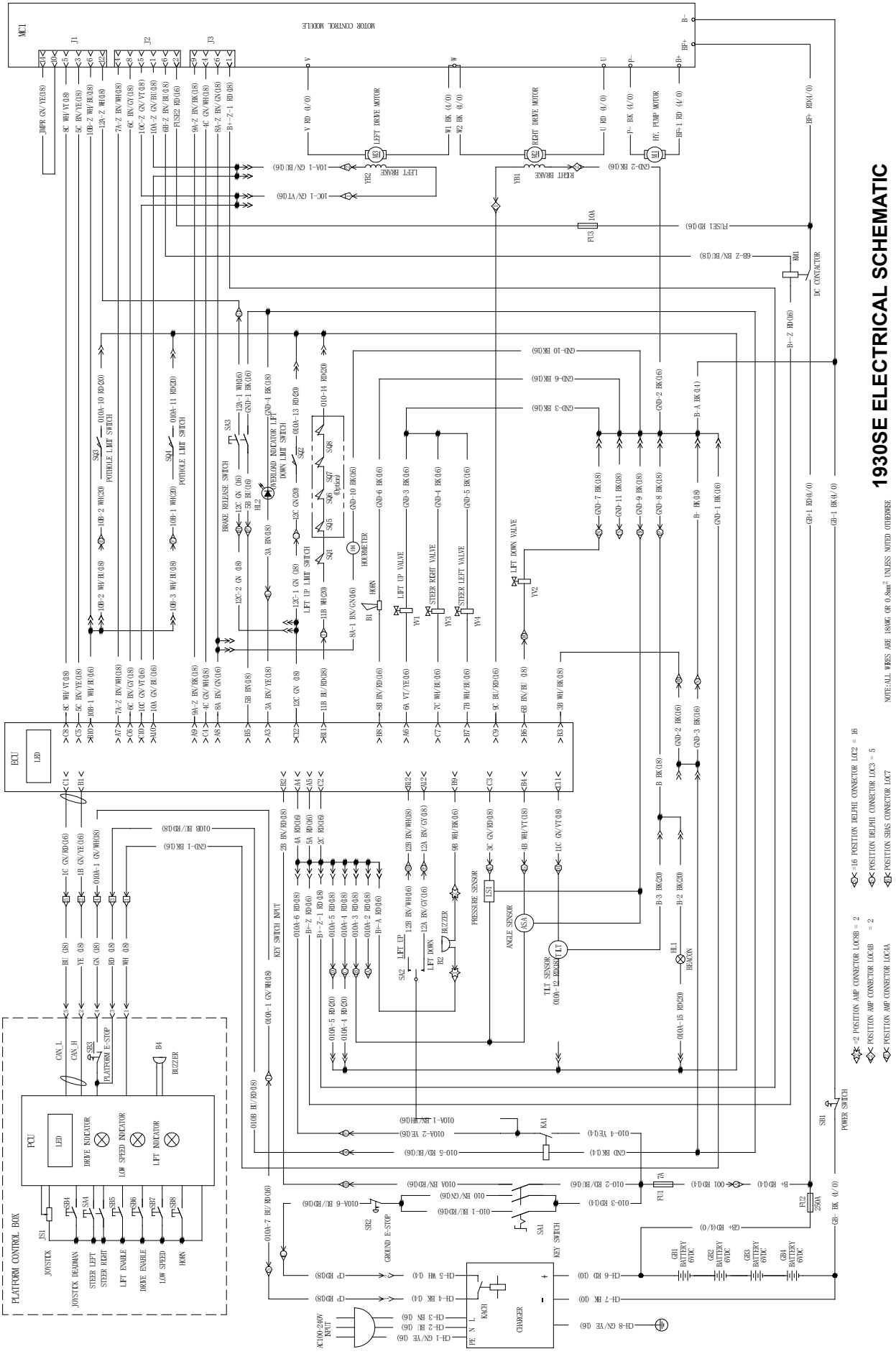


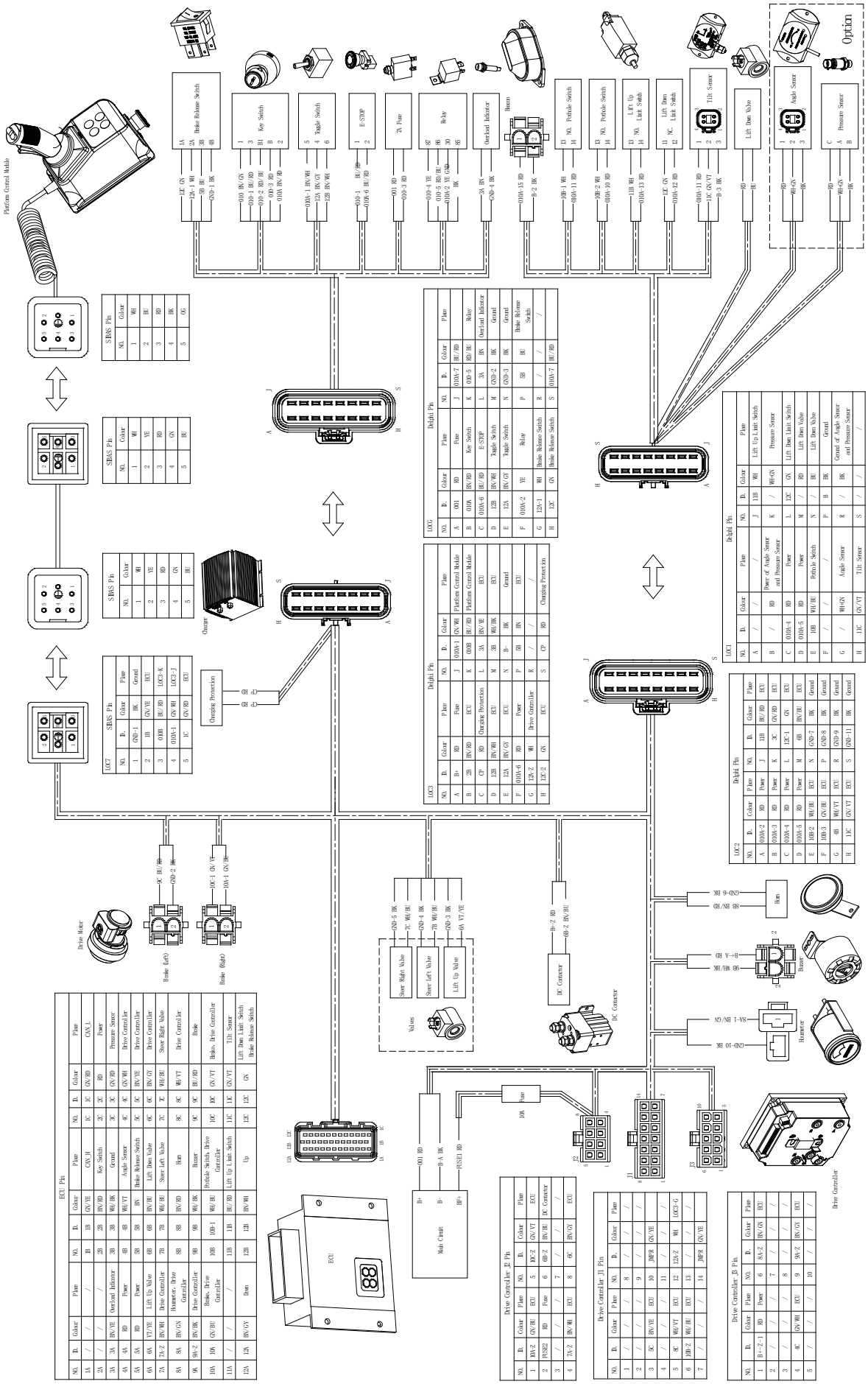
ILLUSTRATION No. Art_5579

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

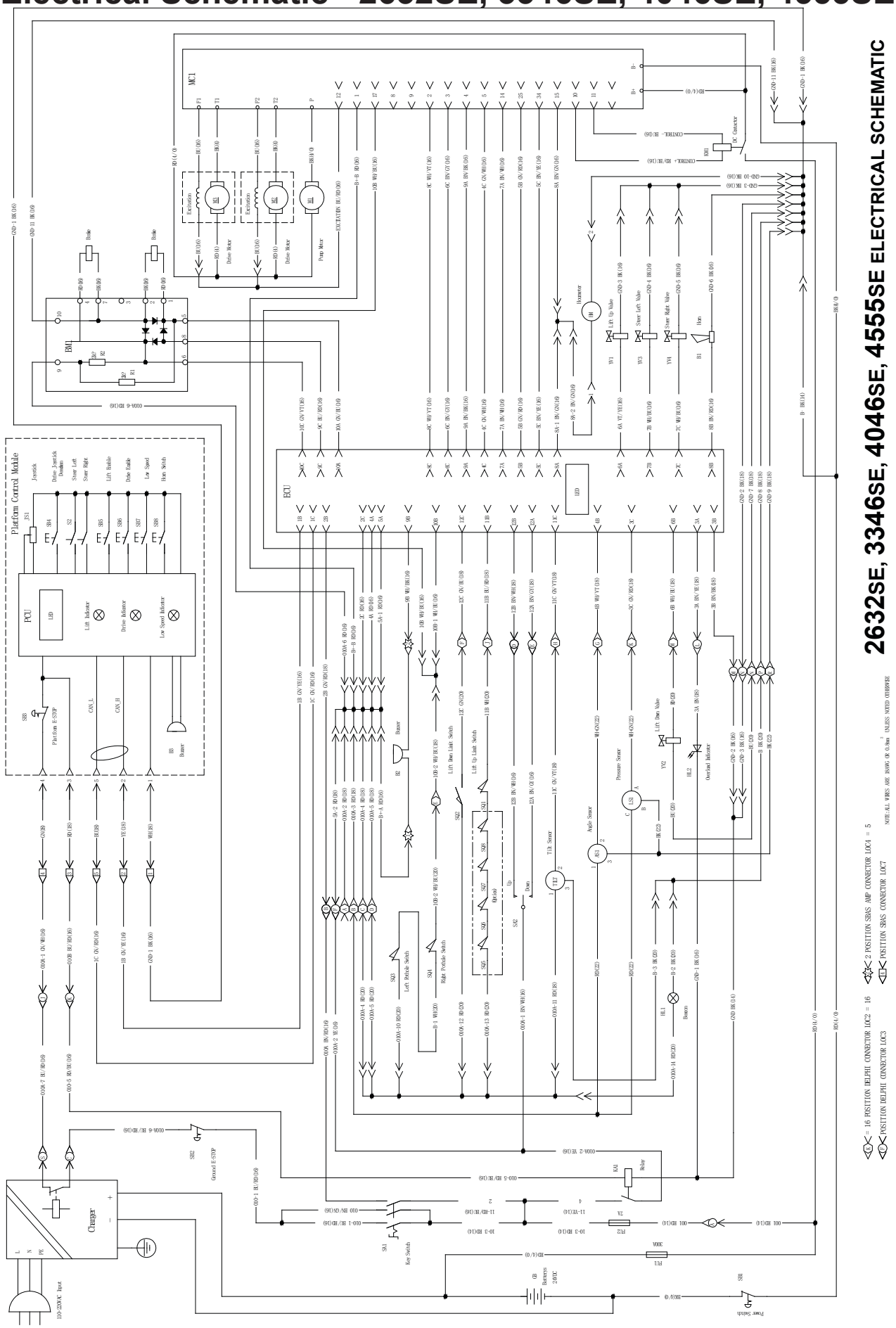
Electrical Schematic - 1930SE



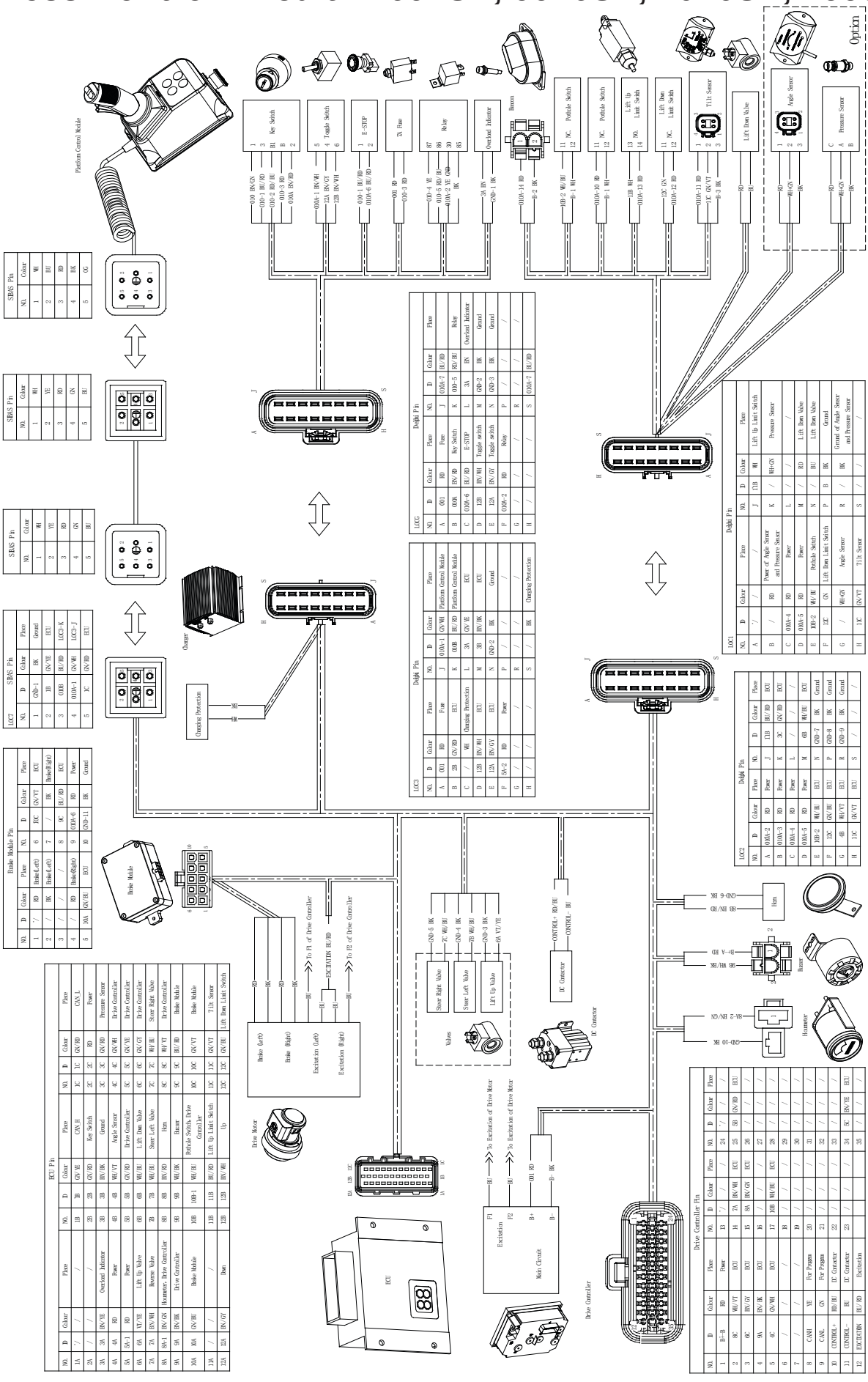
Harness Control Circuit - 1930SE



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



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



Wiring Diagram

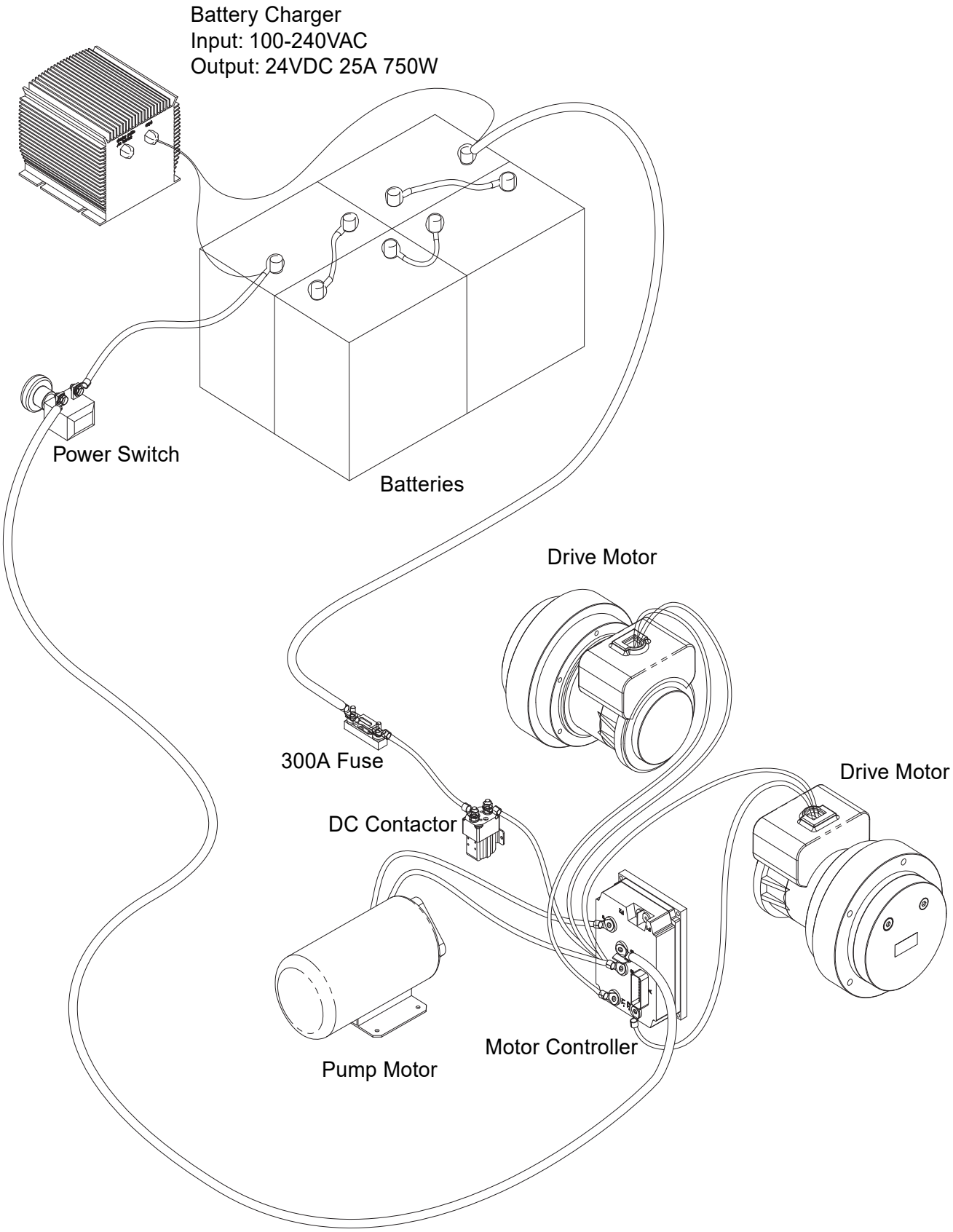


ILLUSTRATION No.
ART_5143

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

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Parts Introduction

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

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

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

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

Steer Linkage and Wheels Assembly - 1930SE

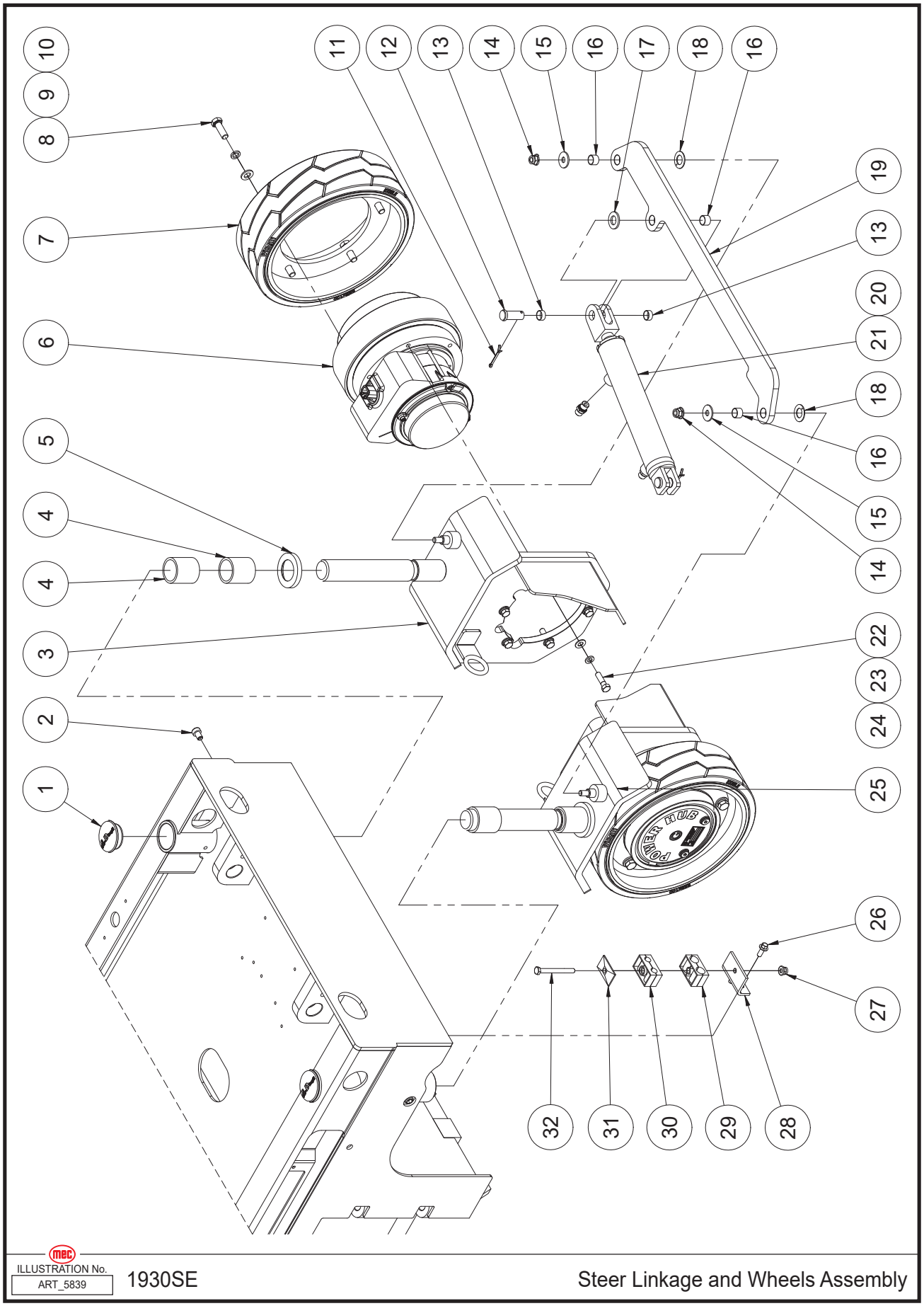


ILLUSTRATION No. ART_5839

1930SE

Steer Linkage and Wheels Assembly

Item	Part Number	Description	Qty.
1	43554	Cover	2
2	41794	Screw	2
3	44886	Steer Yoke Weldment	1
4	43556	Bearing	4
5	43557	Washer	2
6	43558	Drive Motor Assembly	2
--	43559	Motor	1
--	43560	Reducer	1
--	43561	Brake	1
7	44302	Wheel	2
8	50236	Screw HHCS M12-1.50 × 35	10
9	53148	WSHR M12 Spring Washer	10
10	50003	WSHR M12 Standard Flat Washer	10
11	43563	Cotter Pin	2
12	41321	Pin	2
13	41225	Bearing	4
14	50311	Nut NNYL M10-1.50 Flange	2
15	53375	WSHR M10 Flat Fender Washer	2
16	41210	Bearing	4
17	43564	Washer	1
18	41222	Bearing	2
19	44553	Tie Rod	1
20	43076	Straight Fitting	2
21	41593	Steer Cylinder Assembly	1
--	41594	Seal Kit	1
22	53376	Screw HHCS 3/8-16 × 1 3/8	12
23	53316	WSHR 3/8 Spring Washer	12
24	53317	WSHR 3/8 Standard Flat Narrow Washer	12
25	44887	Steer Yoke Weldment	1
26	53257	Screw HHCS M08-1.25 × 20 Serrated Flange	2
27	50313	Nut NNYL M08-1.25 Flange	1
28	41425	Hose Clamp Support	1
29	43520	Hose Clamp	1
30	41416	Hose Clamp	1
31	41415	Base Plate	1
32	50018	Screw HHCS M08-1.25 × 80	1

Steer Linkage and Wheels Assembly - 2632SE, 3346SE, 4046SE, 4555SE

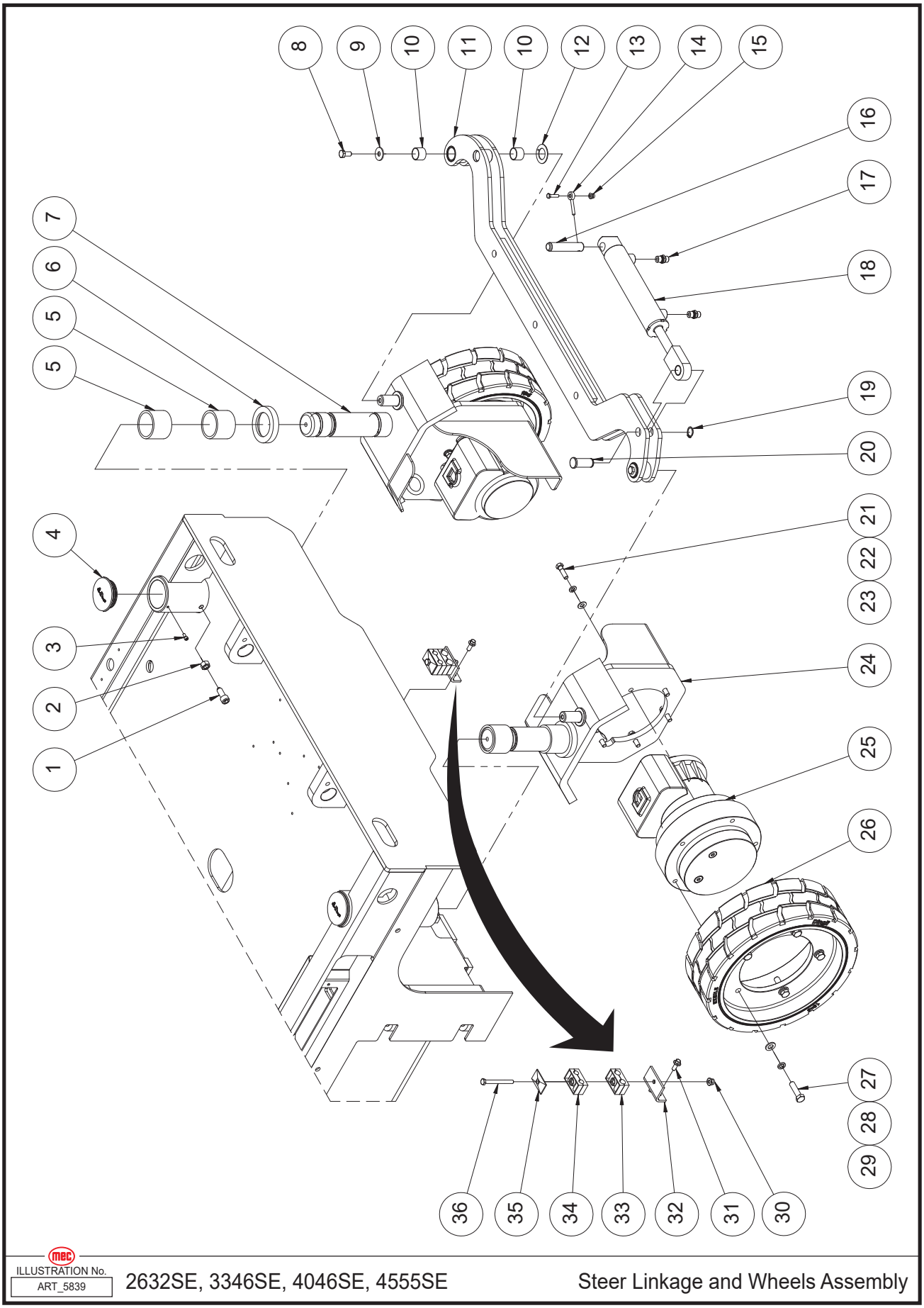


ILLUSTRATION No. ART_5839 2632SE, 3346SE, 4046SE, 4555SE Steer Linkage and Wheels Assembly

Item	Part Number	Description	Qty.
1	41376	Screw	2
2	50590	Nut NHEX M12-1.75	2
3	53116	Screw SHCS M05-0.80 × 12	2
4	41010	Cover	2
5	41011	Bearing	4
6	41013	Washer	2
7	44925	Steer Yoke Weldment	1
8	44926	Pin	2
9	44927	Washer	2
10	41046	Bearing	4
11	41391	Tie Rod Weldment (2632SE)	1
	41393	Tie Rod Weldment (3346SE, 4046SE)	1
	41394	Tie Rod Weldment (4555SE)	1
12	41019	Bearing	2
13	50117	Screw HHCS M06-1.00 × 25	1
14	42449	Pin	1
15	50568	Nut NNYL M06-1.00 Flange	1
16	41007	896-20085 Pin	1
17	43076	Straight Fitting	2
18	44928	Steer Cylinder Assembly	1
--	41388	Seal Kit	1
19	43574	Circlips	1
20	41009	Pin	1
21	53376	Screw HHCS 3/8-16 × 1 3/8	12
22	53316	WSHR 3/8 Spring Washer	12
23	53317	WSHR 3/8 Standard Flat Narrow Washer	12
24	44929	Steer Yoke Weldment	1
25	41380	Drive Motor Assembly	2
--	41381	Reducer	1
--	41382	Motor	1
--	41383	Brake	1
26	41027	Wheel	2
27	53052	Screw HHCS M12-1.50 × 45	10
28	53148	WSHR M12 Spring Washer	10
29	50003	WSHR M12 Standard Flat Washer	10
30	50313	Nut NNYL M08-1.25 Flange	1
31	53257	Screw HHCS M08-1.25 × 20 Serrated Flange	2
32	41425	Hose Clamp Support	1
33	43520	Hose Clamp	1
34	41416	Hose Clamp	1
35	41415	Base Plate	1
36	50018	Screw HHCS M08-1.25 × 80	1

Pothole Protection Assembly - 1930SE

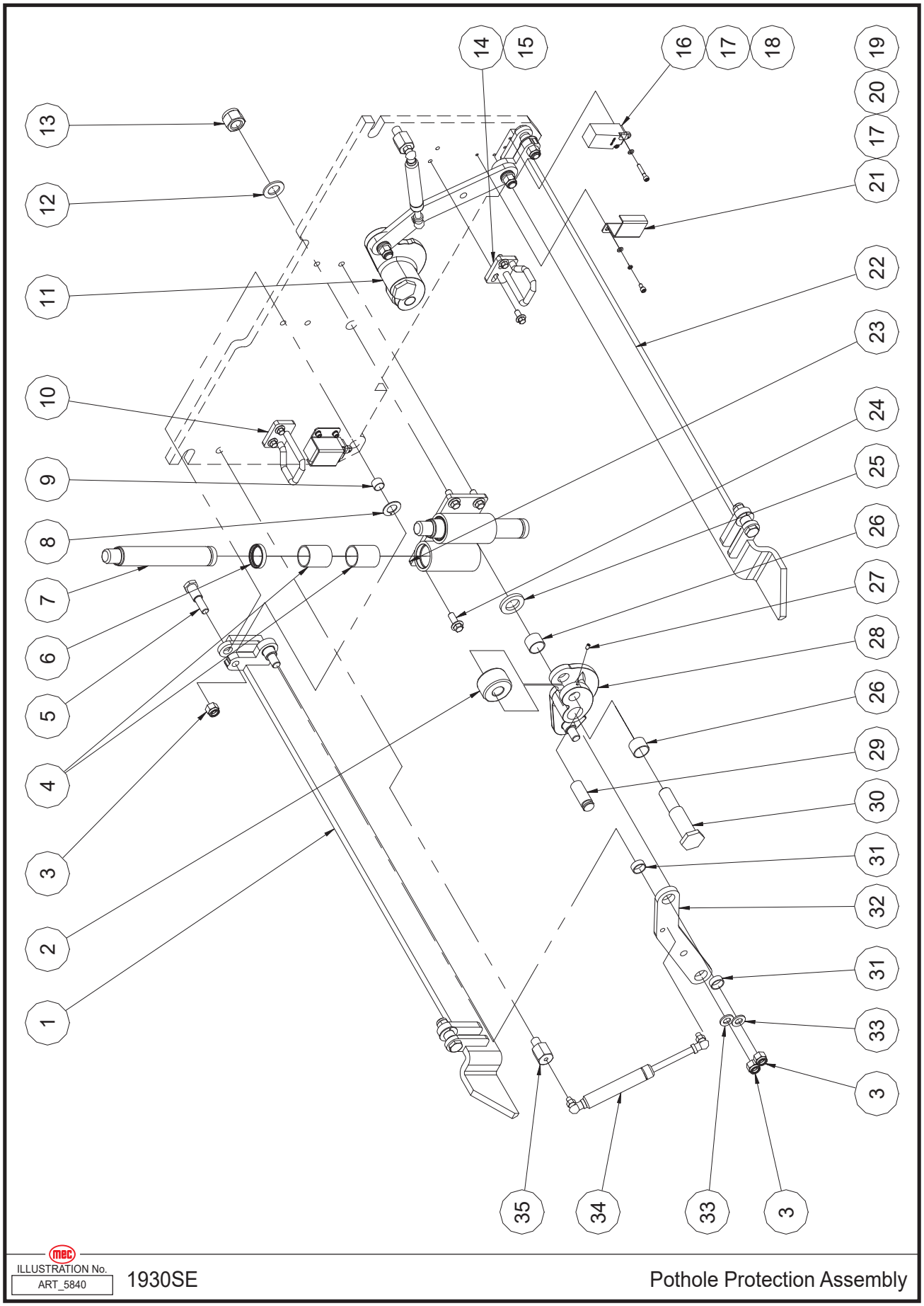


ILLUSTRATION No. ART_5840 1930SE Pothole Protection Assembly

Item	Part Number	Description	Qty.
1	44888	Pothole Guard Weldment	1
2	41049	Roller	2
3	50050	Nut NNYL M12 × 1.75	8
4	43568	Bearing	4
5	41604	Pin	4
6	44889	Seal	2
7	43569	Pothole Hole Pusher Assembly	2
8	41222	Bearing	4
9	41210	Bearing	4
10	41807	Lock Clasp	1
11	47093	Linkage Weldment	1
12	50005	WSHR M20 Standard Flat Washer	2
13	50052	Nut NNYL M20 × 2.50	2
14	41808	Lock Clasp	1
15	53194	Screw HHCS M08-1.25 × 16 Serrated Flange	4
16	41036	Limit Switch	2
17	53038	WSHR M05 Standard Flat Washer	8
18	53171	Screw SHCS M05-0.80 × 30	4
19	53173	Screw SHCS M05-0.80 × 10	4
20	53043	WSHR M05 Spring Washer	4
21	41035	Switch Cover	2
22	44890	Pothole Guard Weldment	1
23	44891	Pothole Guide	1
24	50429	Screw HHCS M10-1.50 × 25 Serrated Flange	4
25	41040	Washer	2
26	41046	Bearing	4
27	53283	Set Screw M05-0.80 × 10 Cone Point	2
28	47092	Linkage Weldment	1
29	41048	Pin	2
30	41047	Pin	2
31	41214	Bearing	4
32	44892	Pothole Link Plate	2
33	50003	WSHR M12 Standard Flat Washer	4
34	41045	Gas Shock	2
35	43573	Gas Shock Strut	2

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

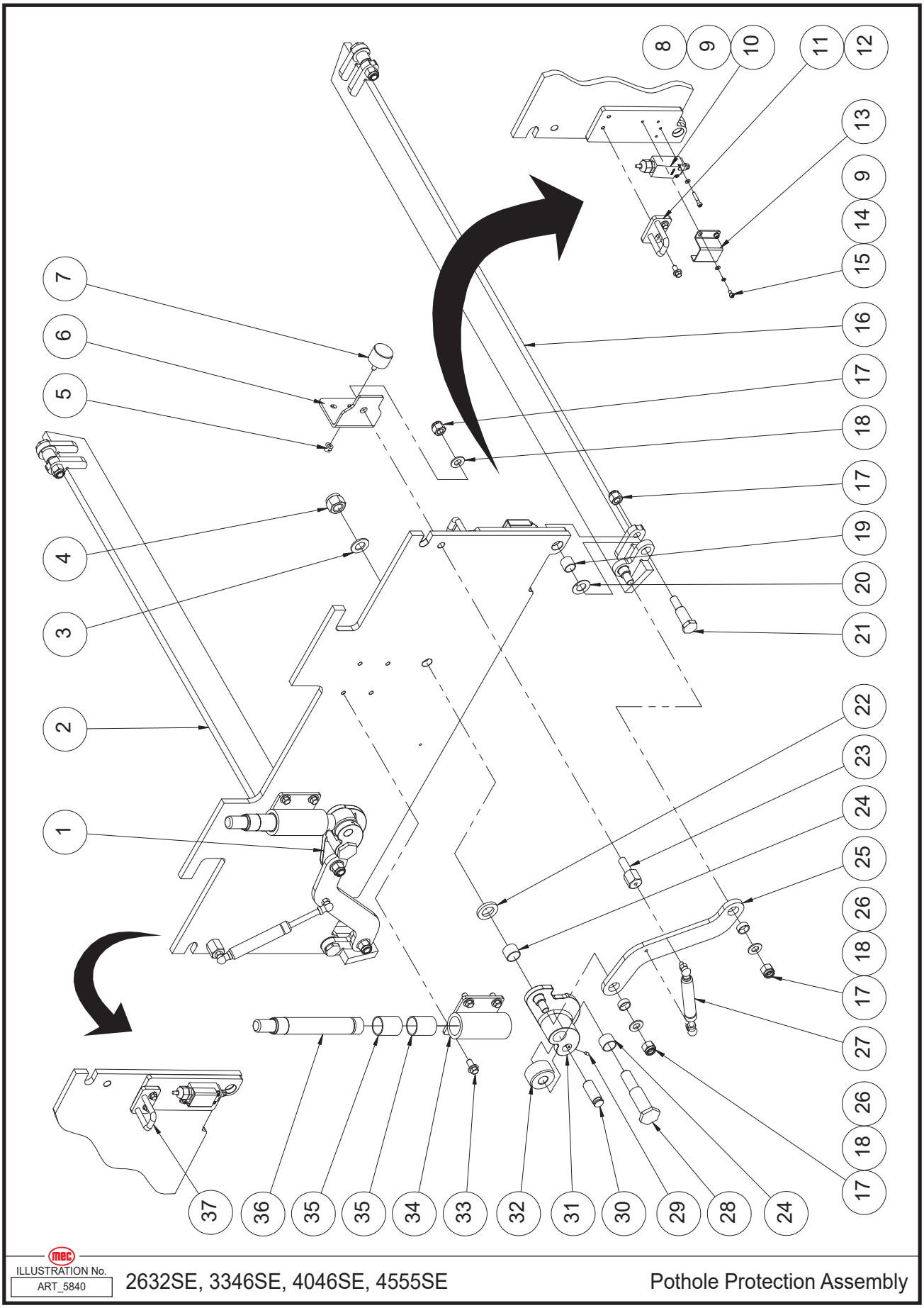


ILLUSTRATION No. ART_5840

2632SE, 3346SE, 4046SE, 4555SE

Pothole Protection Assembly

Item	Part Number	Description	Qty.
1	47092	Linkage Weldment (2632SE, 3346SE, 4046SE)	1
	41030	Linkage Weldment (4555SE)	1
2	41401	Pothole Guard Weldment (2632SE, 3346SE, 4046SE)	1
	44930	Pothole Guard Weldment (4555SE)	1
3	50005	WSHR M20 Standard Flat Washer	2
4	50052	Nut NNYL M20 × 2.50	2
5	50313	Nut NNYL M08-1.25 Flange (4555SE)	2
6	44931	Mounting Plate (4555SE)	2
7	44932	Bumper (4555SE)	2
8	53171	Screw SHCS M05-0.80 × 30	4
9	53038	WSHR M05 Standard Flat Washer	8
10	41036	Limit Switch	2
11	41033	Lock Clasp	1
12	53194	Screw HHCS M08-1.25 × 16 Serrated Flange	4
13	41035	Switch Cover	2
14	53043	WSHR M05 Spring Washer	4
15	53173	Screw SHCS M05-0.80 × 10	4
16	41402	Pothole Guard Weldment (2632SE, 3346SE, 4046SE)	1
	44933	Pothole Guard Weldment (4555SE)	1
17	50303	Nut NNYL M14 × 2.00	10
18	53049	WSHR M14 Standard Flat Washer	6
19	41037	Bearing	4
20	41038	Bearing	4
21	41039	Pin	4
22	41040	Washer	2
23	41044	Gas Shock Strut	2
24	41046	Bearing	4
25	41396	Pothole Link Plate (2632SE)	2
	41398	Pothole Link Plate (3346SE, 4046SE)	2
	41042	Pothole Link Plate (4555SE)	2
26	41214	Bearing	4
27	41045	Gas Shock	2
28	41047	Pin	2
29	53283	Set Screw M05-0.80 × 10 Cone Point	2
30	41048	Pin	2
31	47093	Linkage Weldment (2632SE, 3346SE, 4046SE)	1
	41041	Linkage Weldment (4555SE)	1
32	41049	Roller	2
33	53433	Screw HHCS M10-1.50 × 20 Serrated Flange	8
34	41395	Pothole Guide (2632SE)	1
	41050	Pothole Guide (3346SE, 4046SE, 4555SE)	2
35	43568	Bearing	4
36	44934	Pothole Hole Pusher Assembly (2632SE, 3346SE, 4046SE)	2
	44935	Pothole Hole Pusher Assembly (4555SE)	2
37	41031	Lock Clasp	1

Battery Pack Module - 1930SE

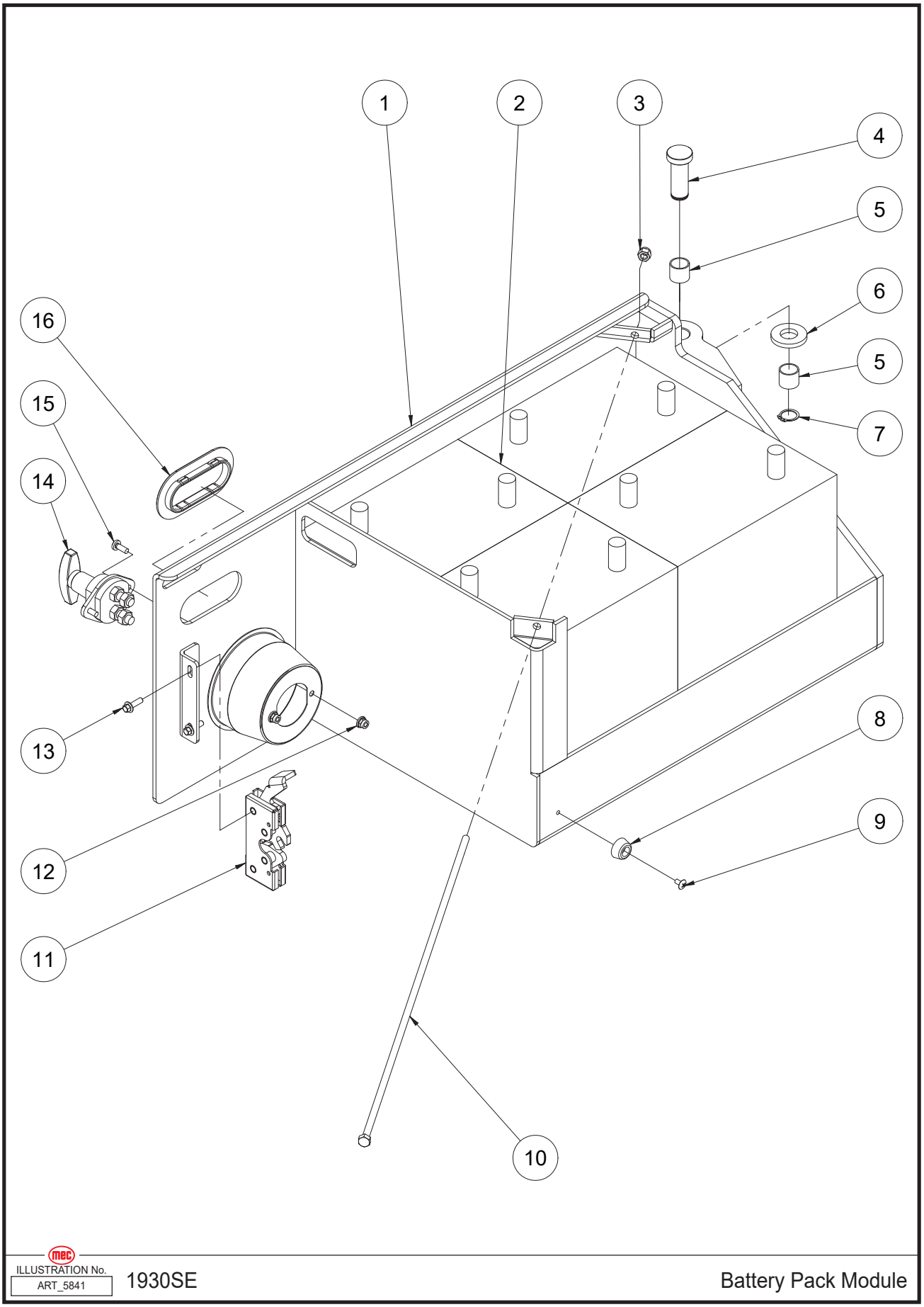


ILLUSTRATION No. ART_5841 1930SE Battery Pack Module

Item	Part Number	Description	Qty.
1	41815	Battery Tray Weldment	1
2	44893	Battery	4
3	50048	Nut NNYL M08 × 1.25	1
4	41813	Hinge Pin	2
5	41037	Bearing	4
6	41814	Washer	2
7	43574	Circlips	2
8	41120	Bumper	1
9	53265	Screw THMS M05-0.80 × 10	1
10	43575	Threaded Rod	1
11	42896	Latch (Left)	1
12	50568	Nut NNYL M06-1.00 Flange	2
13	53255	Screw HHCS M06-1.00 × 20 Serrated Flange	2
14	41607	Power Switch	1
15	53231	Screw PHMS M06-1.00 × 16	2
16	41068	Handle Hole Ring	1

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

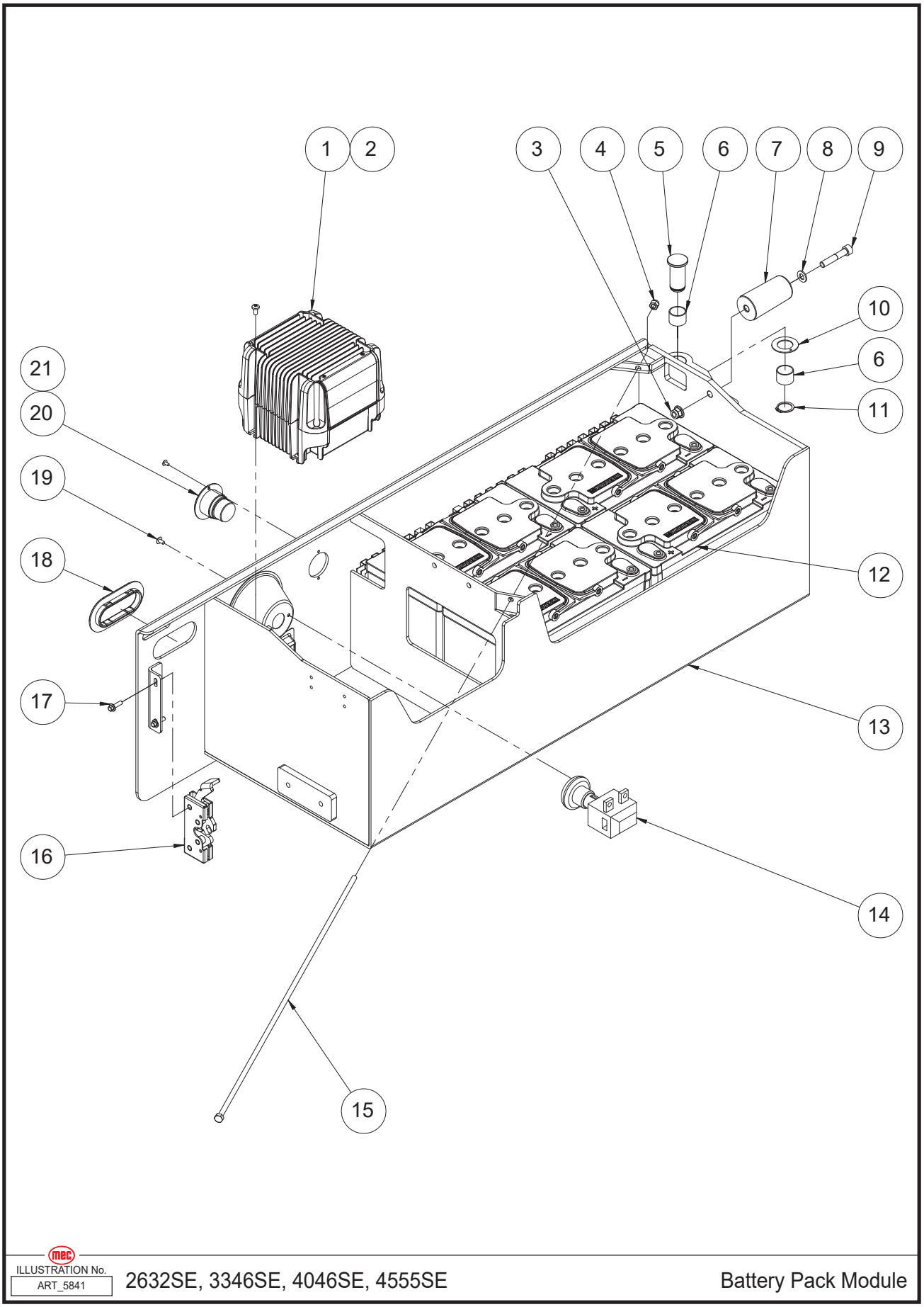


ILLUSTRATION No. ART_5841 2632SE, 3346SE, 4046SE, 4555SE Battery Pack Module

Item	Part Number	Description	Qty.
1	42903	Charger	1
2	53318	Screw PHMS M06-1.00 × 12	4
3	50311	Nut NNYL M10-1.50 Flange	1
4	50048	Nut NNYL M08 × 1.25	1
5	41060	Hinge Pin	2
6	41046	Bearing	4
7	41062	Bumper	1
8	50002	WSHR M10 Standard Flat Washer	1
9	50519	Screw SHCS M10-1.50 × 55	1
10	41019	Bearing	2
11	44936	Circlips	2
12	44893	Battery (2632SE)	4
	44937	Battery (3346SE, 4046SE, 4555SE)	4
13	41585	Battery Tray Weldment (2632SE)	1
	41816	Battery Tray Weldment (3346SE, 4046SE)	1
	44938	Battery Tray Weldment (4555SE)	1
14	42071	Power Switch	1
15	41408	Threaded Rod (2632SE, 3346SE)	1
	41066	Threaded Rod (4046SE, 4555SE)	1
16	42896	Latch (Left)	1
17	53255	Screw HHCS M06-1.00 × 20 Serrated Flange	2
18	41068	Handle Hole Ring	1
19	53265	Screw THMS M05-0.80 × 10	2
20	41575	Plug	1
21	53263	Screw THMS M04-0.70 × 8	2

Power Unit Module - 1930SE

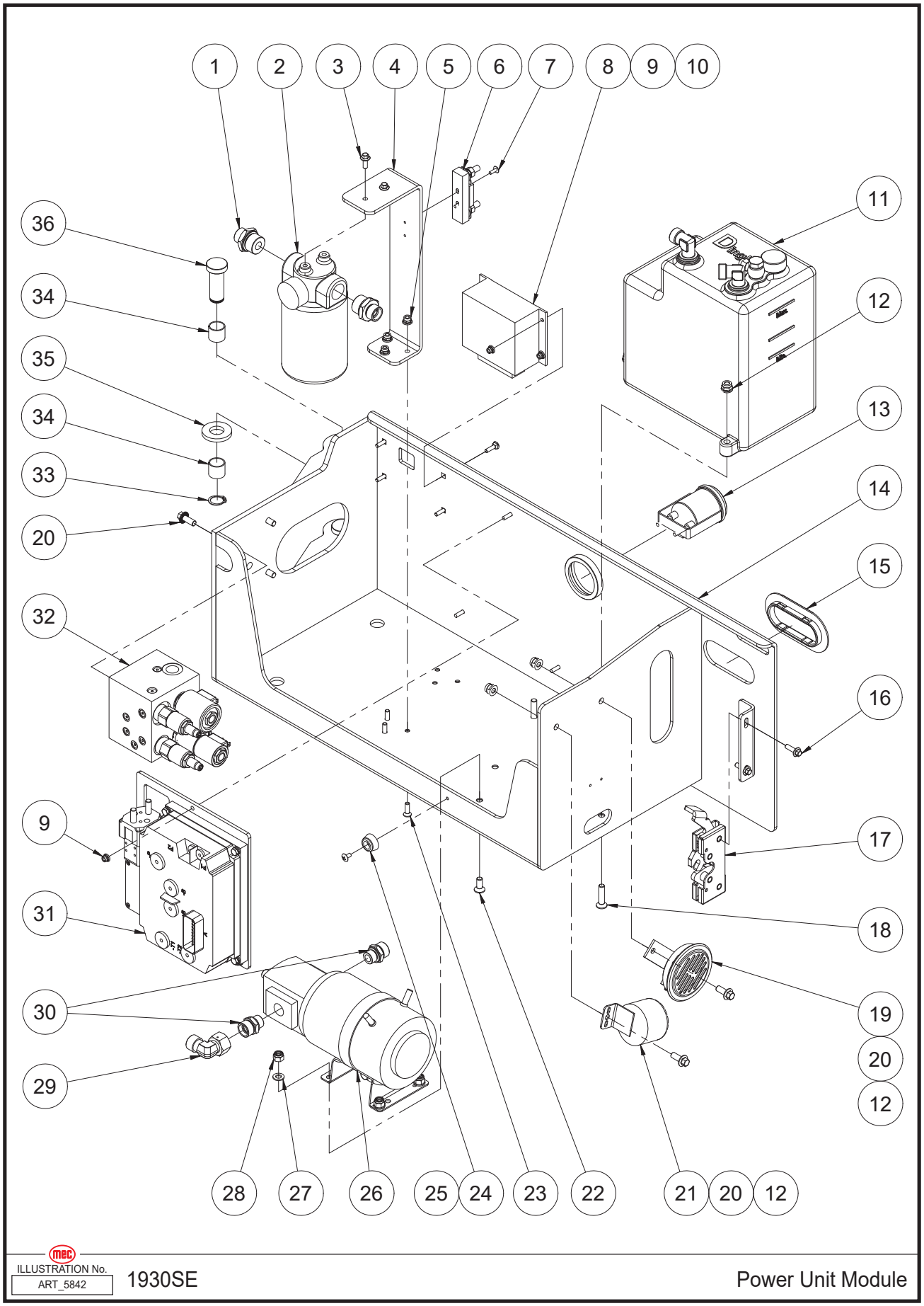


ILLUSTRATION No. ART_5842 1930SE Power Unit Module

Item	Part Number	Description	Qty.
1	43576	Straight Fitting	2
2	41077	Filter Assembly	1
--	41078	Filter Element	1
3	53256	Screw HHCS M06-1.00 × 16 Serrated Flange	2
4	43577	Filter Bracket	1
5	50568	Nut NNYL M06-1.00 Flange	3
6	44894	250A Fuse Assembly	1
--	41827	250A Fuse	1
--	41092	Fuse Seat	1
7	53284	Screw THMS M04-0.70 × 12	2
8	44333	Controller	1
9	53281	Nut NNYL M05-0.80 Flange	7
10	43579	Screw	4
11	REF	Hydraulic Tank Assembly (Refer To page 71)	1
12	50313	Nut NNYL M08-1.25 Flange	4
13	41070	Hour Meter	1
14	41819	Hydraulic Tray Weldment	1
15	41068	Handle Hole Ring	1
16	53255	Screw HHCS M06-1.00 × 20 Serrated Flange	2
17	41067	Latch (Right)	1
18	53071	Screw CSCS M08-1.25 × 35	2
19	41075	Horn	1
20	53257	Screw HHCS M08-1.25 × 20 Serrated Flange	6
21	41074	Alarm	1
22	53282	Screw CSCS M08-1.25 × 20	4
23	50561	Screw CSCS M06-1.00 × 20	3
24	41120	Bumper	1
25	53265	Screw THMS M05-0.80 × 10	1
26	41608	Pump Motor Assembly	1
--	41820	Motor	1
--	41609	Pump	1
27	50048	Nut NNYL M08 × 1.25	4
28	50001	WSHR M08 Standard Flat Washer	4
29	43206	Elbow	1
30	43582	Straight Fitting	2
31	REF	Motor Controller Assembly (Refer To page 75)	1
32	REF	Function Manifold (Refer To page 137)	1
33	43574	Circlips	2
34	41037	Bearing	4
35	41814	Washer	2
36	41813	Hinge Pin	2

REF - Reference

Power Unit Module - 2632SE, 3346SE, 4046SE, 4555SE

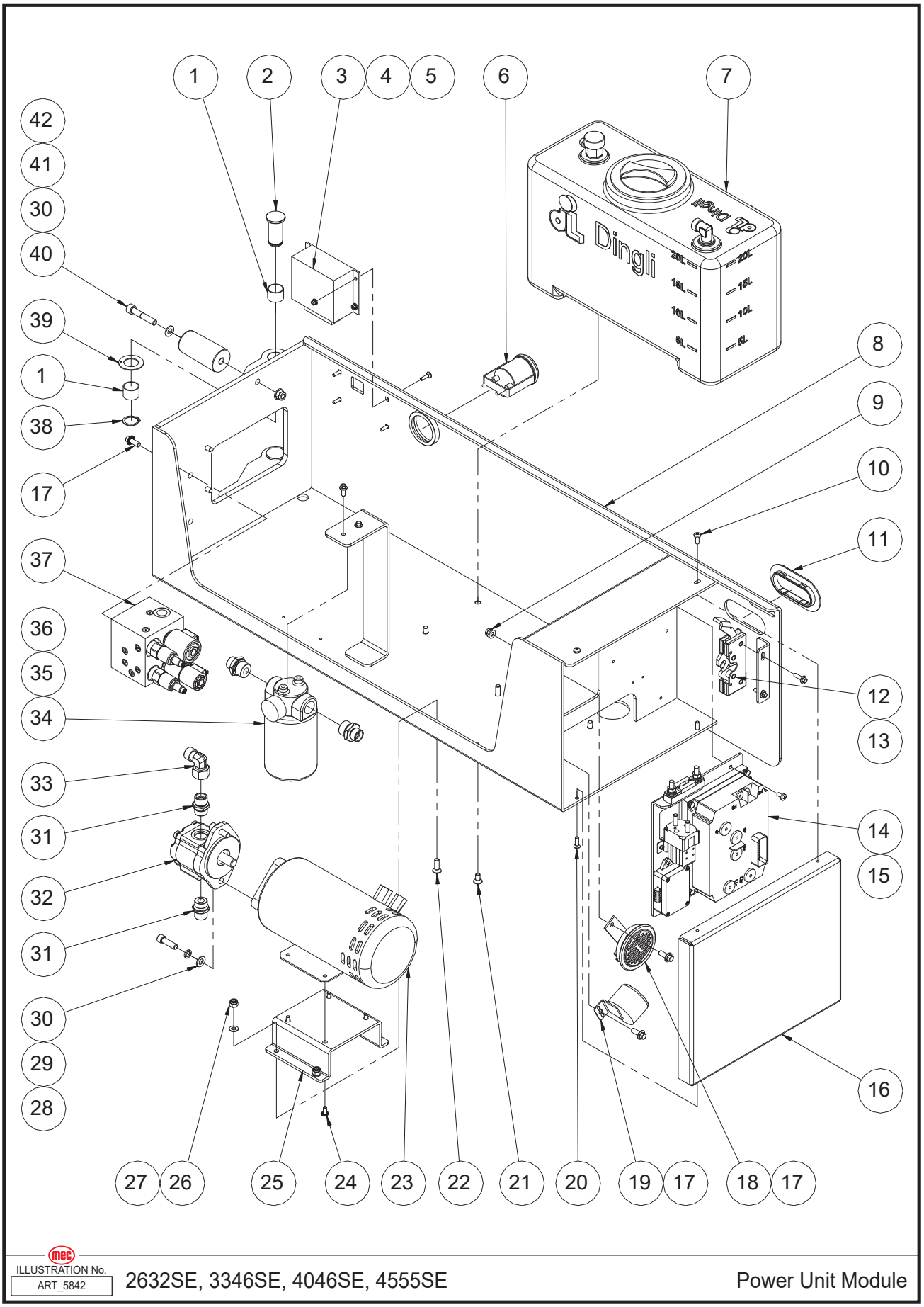


ILLUSTRATION No. ART_5842 2632SE, 3346SE, 4046SE, 4555SE Power Unit Module

Item	Part Number	Description	Qty.
1	41046	Bearing	4
2	41060	Hinge Pin	2
3	44333	Controller	1
4	53281	Nut NNYL M05-0.80 Flange	4
5	43579	Screw	4
6	41070	Hour Meter	1
7	REF	Hydraulic Tank Assembly (Refer To page 73)	1
8	44939	Hydraulic Tray Weldment (2632SE, 3346SE, 4046SE)	1
	41822	Hydraulic Tray Weldment (4555SE)	1
9	50313	Nut NNYL M08-1.25 Flange	1
10	53231	Screw PHMS M06-1.00 × 16	2
11	41068	Handle Hole Ring	1
12	41067	Latch (Right)	1
13	53255	Screw HHCS M06-1.00 × 20 Serrated Flange	2
14	REF	Motor Controller Assembly (Refer To page 77)	1
15	53318	Screw PHMS M06-1.00 × 12	4
16	41073	Cover	1
17	53257	Screw HHCS M08-1.25 × 20 Serrated Flange	6
18	41075	Horn	1
19	41074	Alarm	1
20	50561	Screw CSCS M06-1.00 × 20	2
21	53434	Screw CSCS M08-1.25 × 16	4
22	53435	Screw CSCS M08-1.25 × 25	4
23	41411	Motor (2632SE)	1
	41076	Motor (3346SE, 4046SE, 4555SE)	1
24	53273	Screw HHCS M06-1.00 × 14 Serrated Flange	4
25	41410	Motor Bracket	1
26	50048	Nut NNYL M08 × 1.25	4
27	50001	WSHR M08 Standard Flat Washer	4
28	53315	Screw SHCS 3/8-24 × 1 1/4	2
29	53054	WSHR M10 Spring Washer	2
30	50002	WSHR M10 Standard Flat Washer	3
31	43205	Straight Fitting	2
32	41426	Pump	1
33	43206	Elbow	1
34	41077	Filter Assembly	1
--	41078	Filter Element	1
35	43576	Straight Fitting	2
36	53256	Screw HHCS M06-1.00 × 16 Serrated Flange	2
37	REF	Function Manifold (Refer To page 137)	1
38	44936	Circlips	2
39	41019	Bearing	2
40	50519	Screw SHCS M10-1.50 × 55	1
41	41062	Bumper	1
42	50311	Nut NNYL M10-1.50 Flange	1

REF - Reference

Hydraulic Tank Assembly - 1930SE

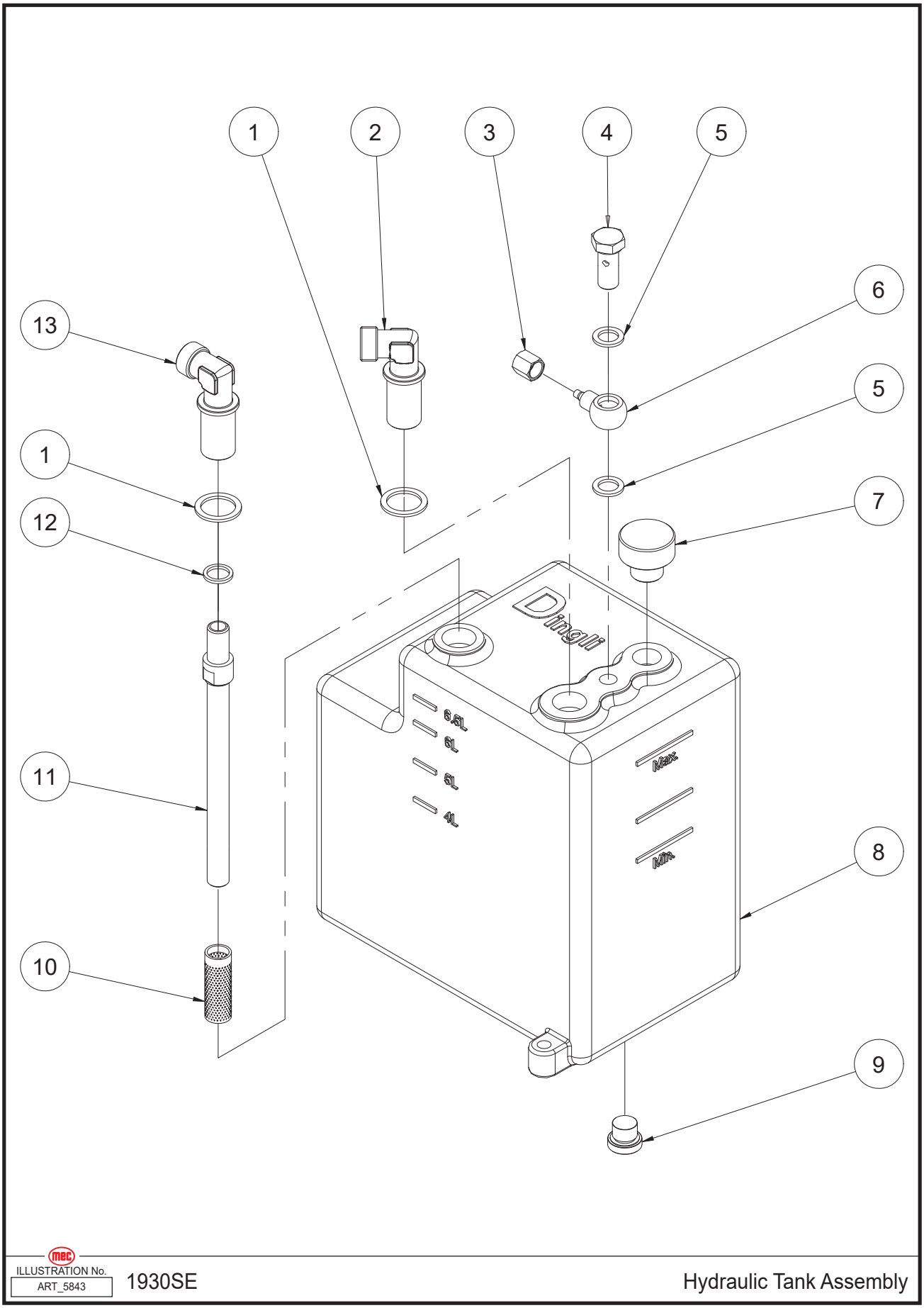


ILLUSTRATION No. ART_5843 1930SE Hydraulic Tank Assembly

Item	Part Number	Description	Qty.
1	41412	Washer	2
2	41085	Fitting	1
3	41413	Nut	1
4	41166	Fitting	1
5	44002	Washer	2
6	41167	Fitting	1
7	41082	Breather	1
8	41823	Tank	1
9	41087	Plug	1
10	41824	Filter	1
11	44568	Suction Pipe Weldment	1
12	44567	Seal Washer	1
13	41826	Fitting	1

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

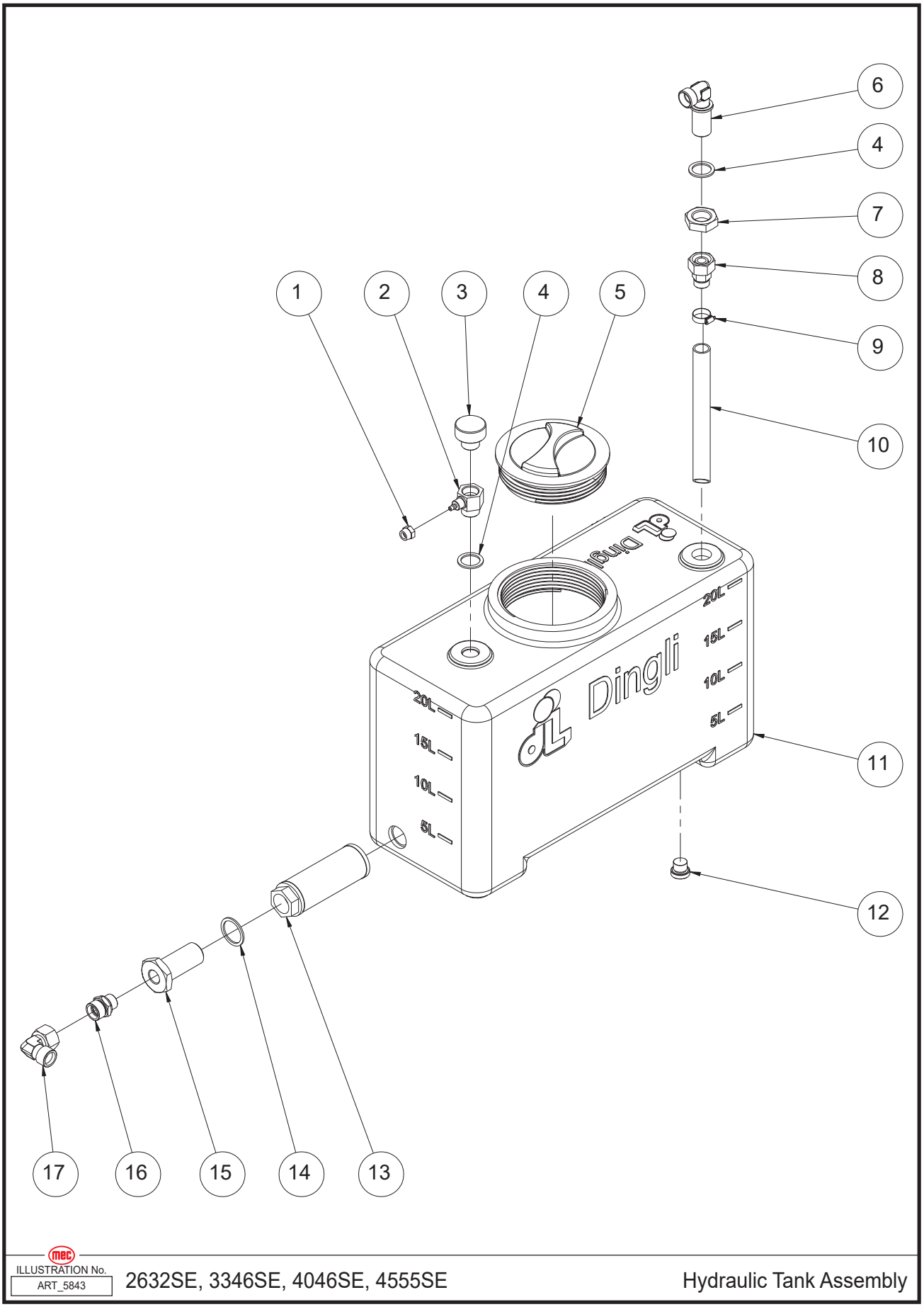


ILLUSTRATION No. ART_5843 2632SE, 3346SE, 4046SE, 4555SE Hydraulic Tank Assembly

Item	Part Number	Description	Qty.
1	41413	Nut	1
2	41090	Fitting	1
3	41082	Breather	1
4	41412	Washer	2
5	41083	Tank Cover	1
6	41085	Fitting	1
7	53436	Nut NHEX M22-1.50, Thin Nut Chamfered	1
8	43118	Straight Fitting	1
9	44940	Clamp	1
10	44941	Hose	1
11	41088	Tank	1
12	41087	Plug	1
13	41086	Filter	1
14	41428	Seal Washer	1
15	41089	Fitting	1
16	43582	Straight Fitting	1
17	43206	Elbow	1

Motor Controller Assembly - 1930SE

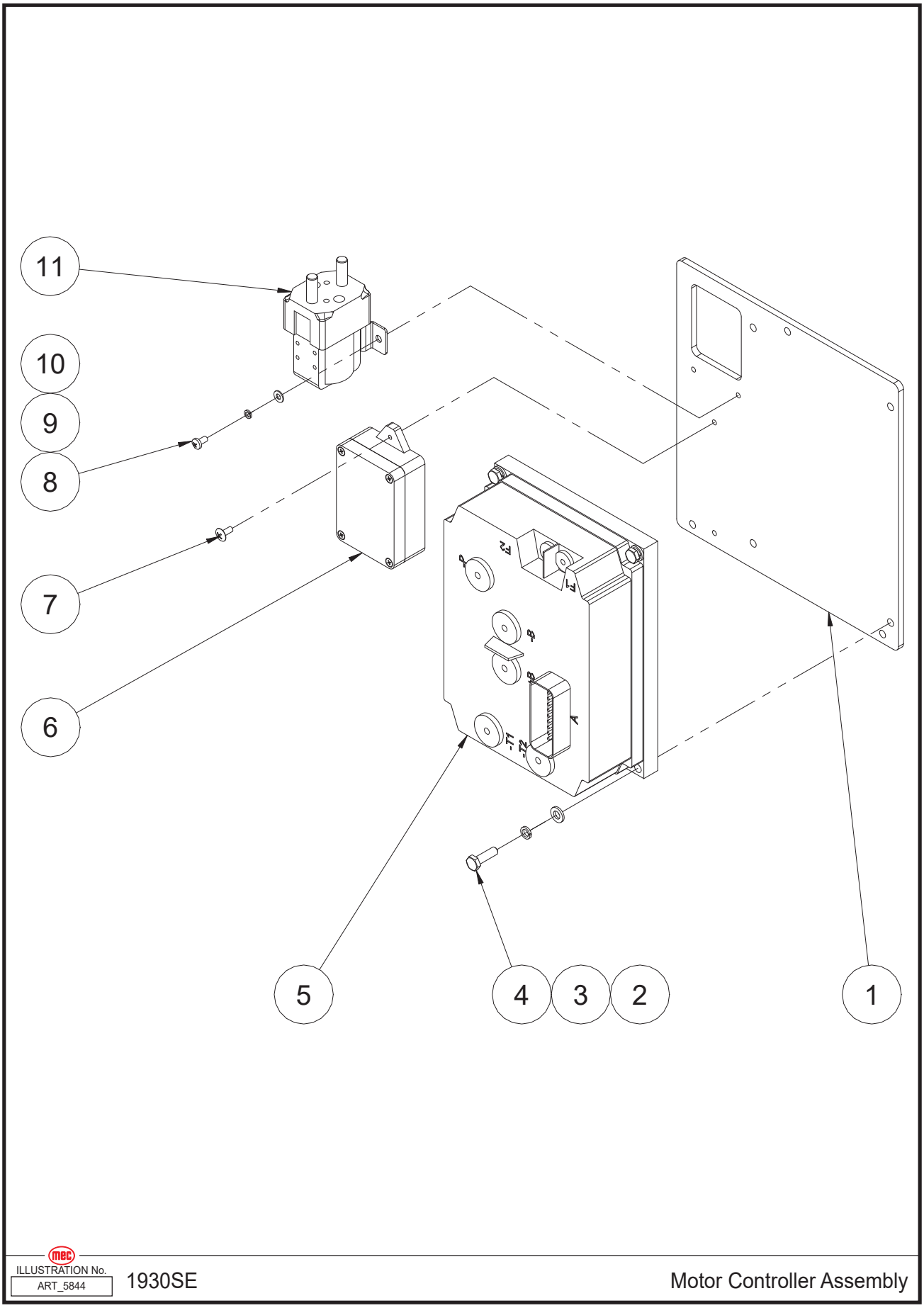


ILLUSTRATION No. ART_5844 1930SE Motor Controller Assembly

Item	Part Number	Description	Qty.
1	43584	Mounting Plate	1
2	50000	WSHR M06 Standard Flat Washer	4
3	53046	WSHR M06 Spring Washer	4
4	50028	Screw HHCS M06-1.00 × 20	4
5	41093	Motor Controller	1
6	41094	Brake Module	1
7	53348	Screw THMS M04-0.70 × 10	2
8	53276	Screw PHMS M04-0.70 × 8	2
9	53062	WSHR M04 Spring Washer	2
10	50284	WSHR M04 Standard Flat Washer	2
11	41331	DC Contactor	1

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

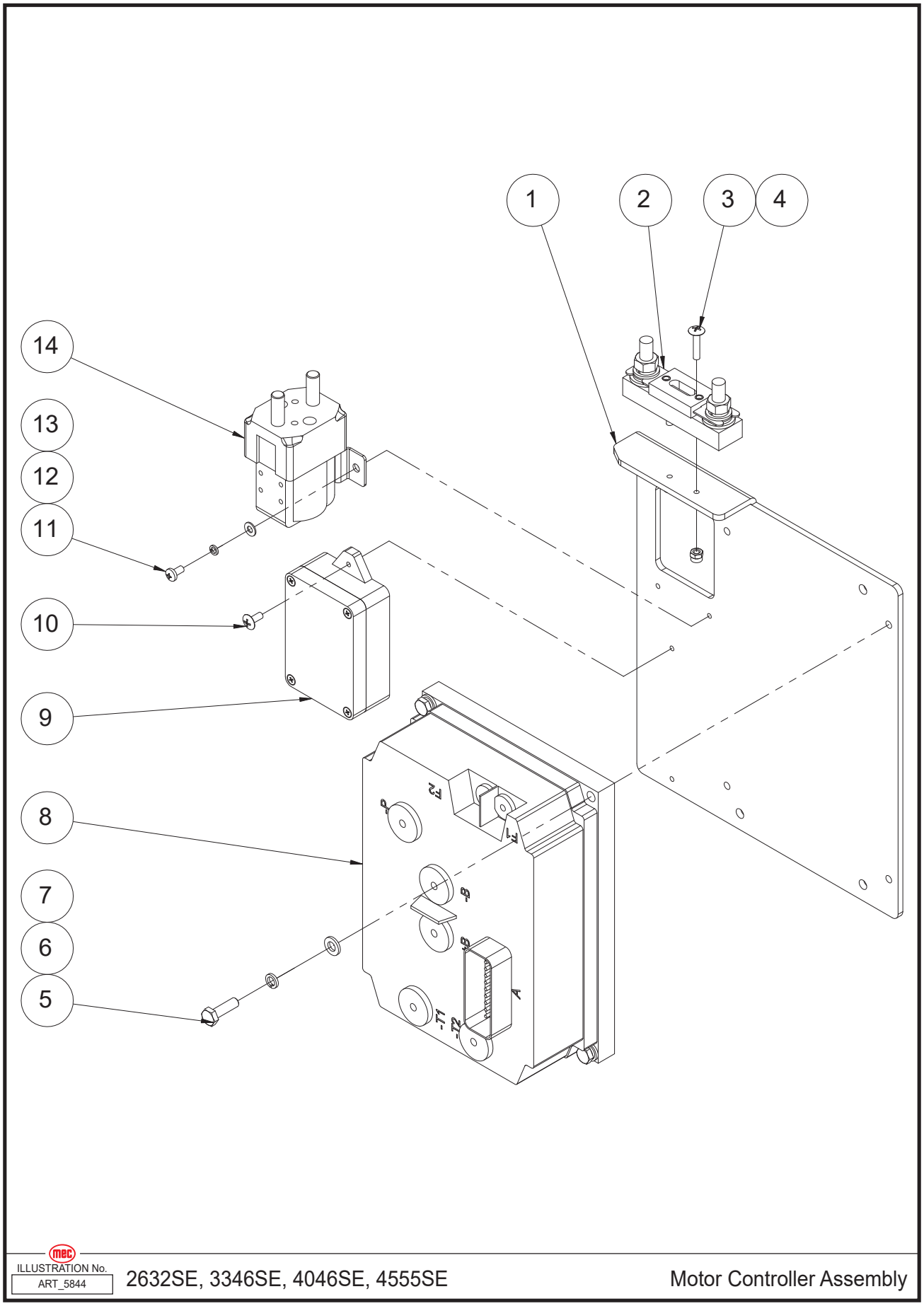


ILLUSTRATION No. ART_5844 2632SE, 3346SE, 4046SE, 4555SE Motor Controller Assembly

Item	Part Number	Description	Qty.
1	41427	Mounting Plate	1
2	43578	300A Fuse Assembly	1
--	41091	300A Fuse	1
--	41092	Fuse Seat	1
3	53437	Screw THMS M04-0.70 × 20	2
4	50285	Nut NNYL M04 × 0.70	2
5	50028	Screw HHCS M06-1.00 × 20	4
6	53046	WSHR M06 Spring Washer	4
7	50000	WSHR M06 Standard Flat Washer	4
8	41093	Motor Controller	1
9	41094	Brake Module	1
10	53348	Screw THMS M04-0.70 × 10	2
11	53276	Screw PHMS M04-0.70 × 8	2
12	53062	WSHR M04 Spring Washer	2
13	50284	WSHR M04 Standard Flat Washer	2
14	41331	DC Contactor	1

Rear Wheel and Ladder - 1930SE

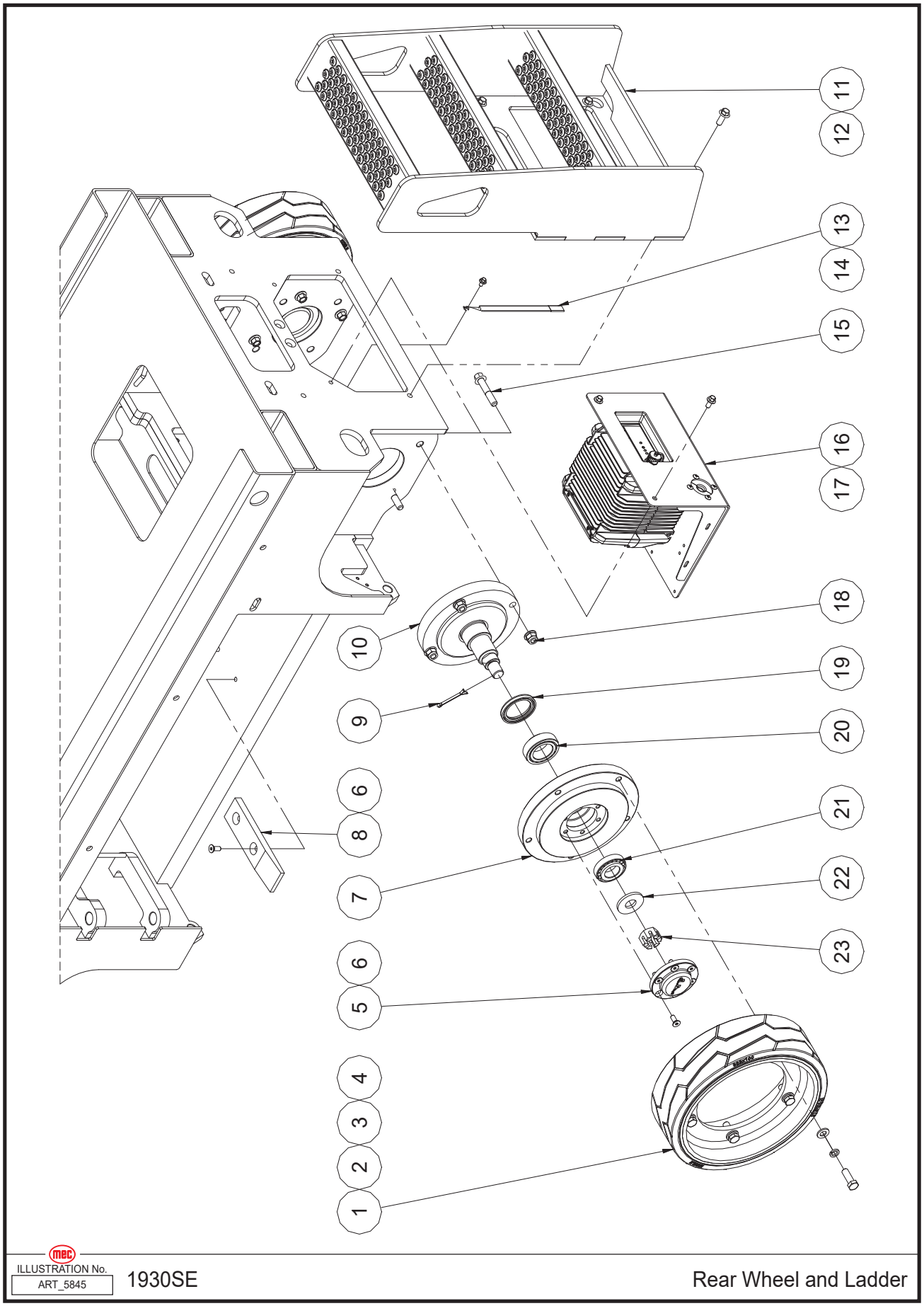


ILLUSTRATION No.
ART_5845

1930SE

Rear Wheel and Ladder

Item	Part Number	Description	Qty.
1	44302	Wheel	2
2	50236	Screw HHCS M12-1.50 × 35	10
3	53148	WSHR M12 Spring Washer	10
4	50003	WSHR M12 Standard Flat Washer	10
5	41328	Cap	2
6	53282	Screw CSCS M08-1.25 × 20	16
7	41025	Bearing Seat	2
8	41002	Spacer	2
9	43585	Cotter Pin	2
10	43586	Spindle	2
11	44921	Ladder (Without Circuit Breaker Bracket)	1
12	50429	Screw HHCS M10-1.50 × 25 Serrated Flange	4
13	41003	Ground Strap	1
14	53260	Screw HHCS M06-1.00 × 10 Serrated Flange	1
15	53290	Screw HHCS M12-1.75 × 65 Flange	8
16	REF	Charger Assembly (Refer To page 83)	1
17	53194	Screw HHCS M08-1.25 × 16 Serrated Flange	2
18	53261	Nut NNYL M12-1.75 Flange	8
19	43588	Seal	2
20	41029	Bearing	2
21	41024	Bearing	2
22	41304	Washer	2
23	53262	Castle Nut M22 × 1.50	2

REF - Reference

Rear Wheel and Ladder - 2632SE, 3346SE, 4046SE, 4555SE

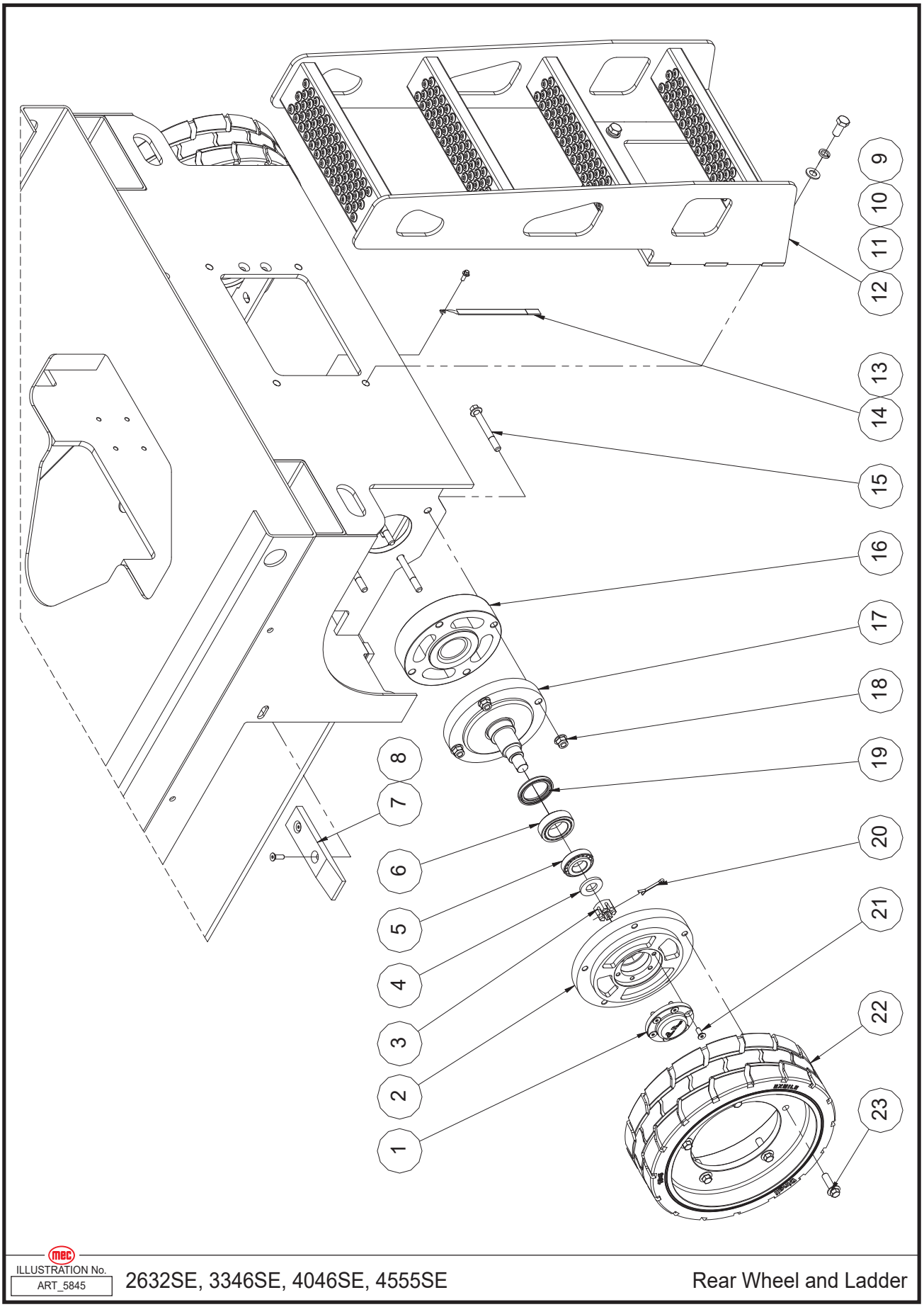


ILLUSTRATION No. ART_5845 2632SE, 3346SE, 4046SE, 4555SE Rear Wheel and Ladder

Item	Part Number	Description	Qty.
1	41328	Cap	2
2	41025	Bearing Seat	2
3	53262	Castle Nut M22 × 1.50	2
4	41304	Washer	2
5	41024	Bearing	2
6	41029	Bearing	2
7	41002	Spacer	2
8	53282	Screw CSCS M08-1.25 × 20	16
9	53047	Screw HHCS M14-2.00 × 35	4
10	53048	WSHR M14 Spring Washer	4
11	53049	WSHR M14 Standard Flat Washer	4
12	41374	Ladder (2632SE)	1
	41464	Ladder (3346SE)	1
	41004	Ladder (4046SE, 4555SE)	1
13	53260	Screw HHCS M06-1.00 × 10 Serrated Flange	1
14	41003	Ground Strap	1
15	53438	Screw HHCS M12-1.75 × 100 Flange	8
16	41021	Terminal Pad	2
17	41022	Spindle	2
18	53261	Nut NNYL M12-1.75 Flange	8
19	43588	Seal	2
20	43585	Cotter Pin	2
21	53282	Screw CSCS M08-1.25 × 20	12
22	41027	Wheel	2
22	50003	WSHR M12 Standard Flat Washer	10
23	53148	WSHR M12 Spring Washer	10
24	53052	Screw HHCS M12-1.50 × 45	10

Charger Assembly - 1930SE Only

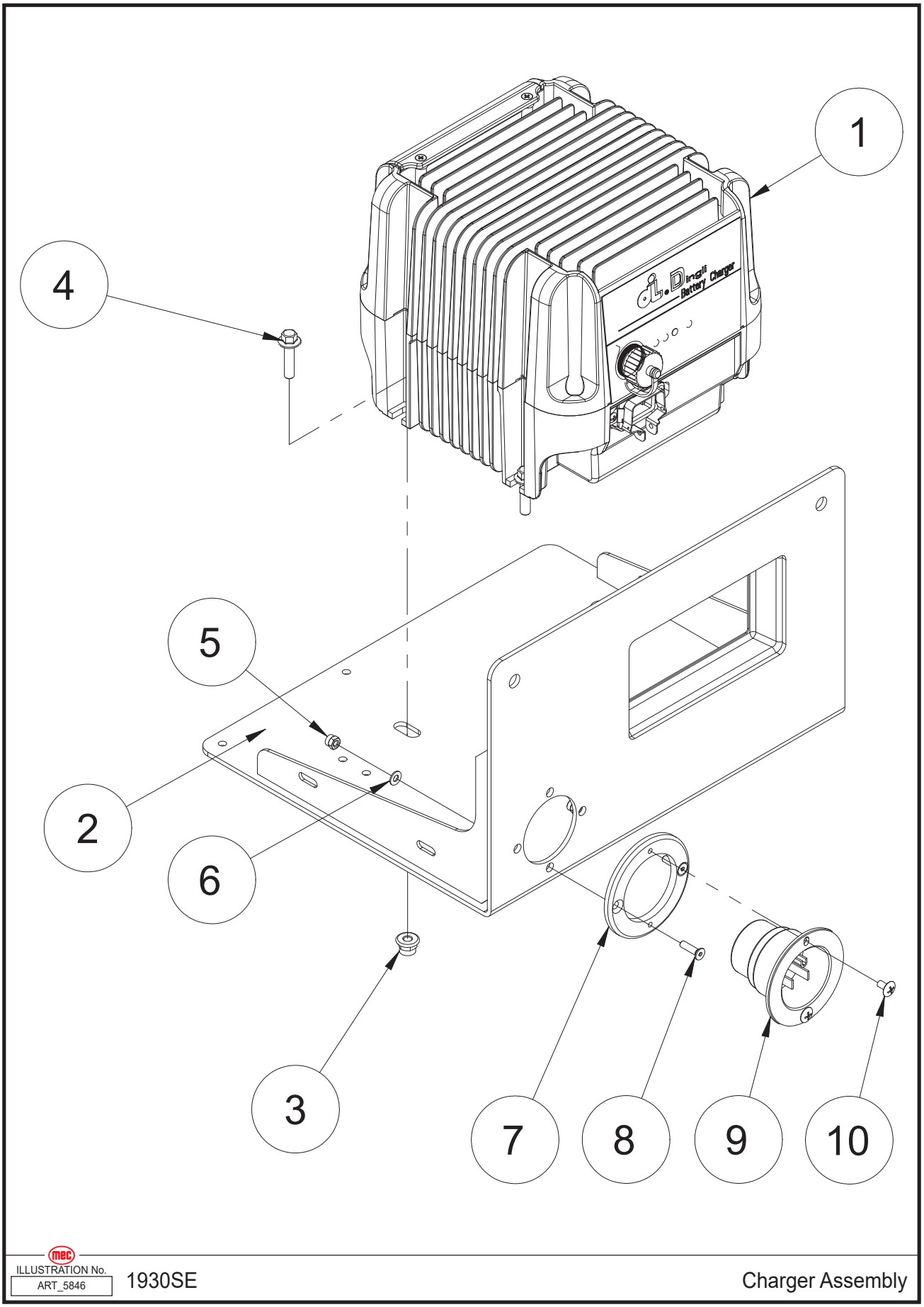


ILLUSTRATION No. ART_5846 1930SE Charger Assembly

Item	Part Number	Description	Qty.
1	42903	Charger	1
2	43590	Charger Bracket Weldment	1
3	50568	Nut NNYL M06-1.00 Flange	4
4	53432	Screw HHCS M06-1.00 × 25 Serrated Flange	4
5	50285	Nut NNYL M04 × 0.70	2
6	50284	WSHR M04 Standard Flat Washer	2
7	43591	Plug Bracket	1
8	53221	Screw CSCS M04-0.70 × 16	2
9	41575	Plug	1
10	53263	Screw THMS M04-0.70 × 8	2

Ground Control and Limit Switch - 1930SE

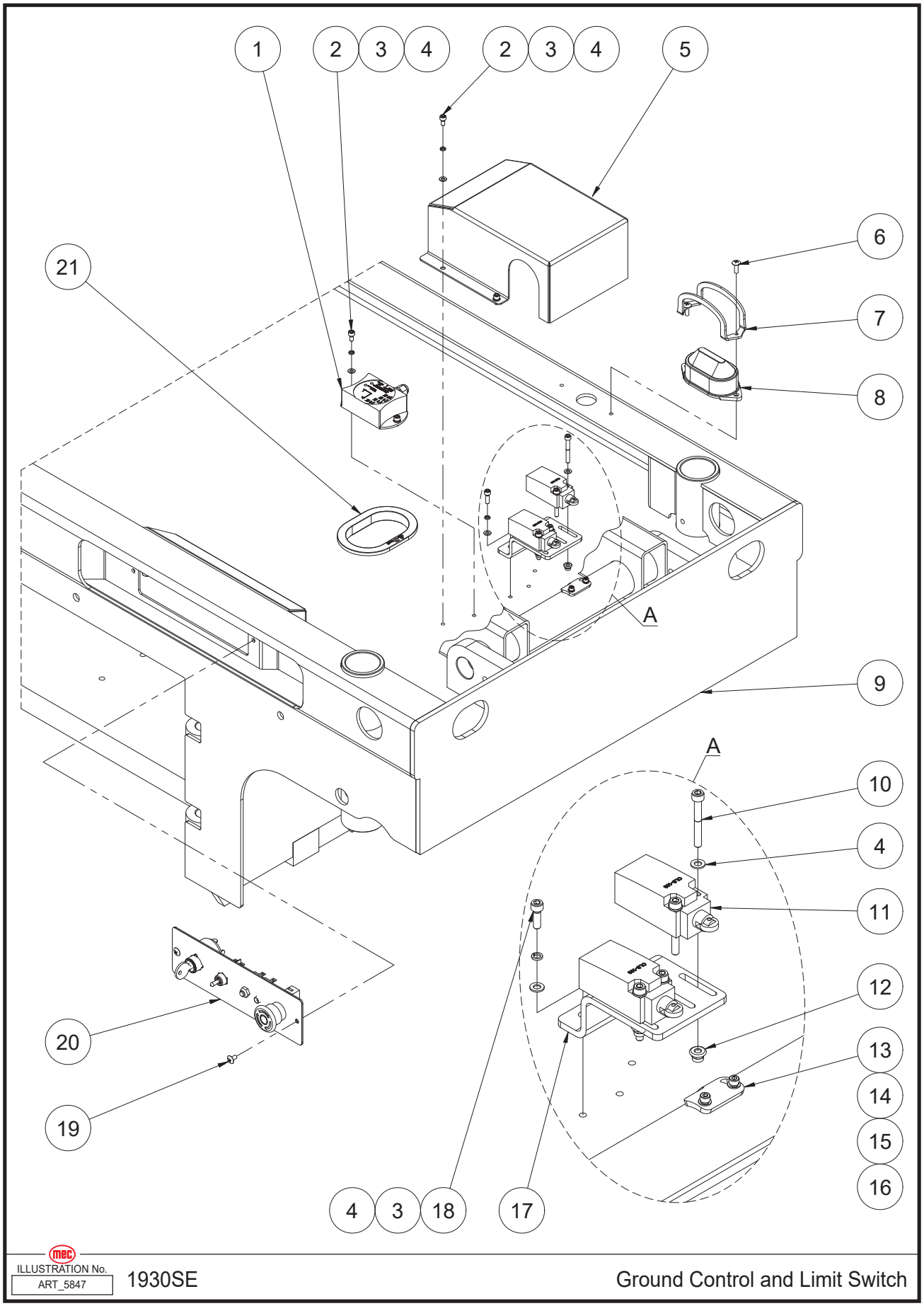


ILLUSTRATION No. ART_5847 1930SE Ground Control and Limit Switch

Item	Part Number	Description	Qty.
1	41098	Tilt Sensor	1
2	53173	Screw SHCS M05-0.80 × 10	6
3	53043	WSHR M05 Spring Washer	8
4	53038	WSHR M05 Standard Flat Washer	12
5	44895	Cover	1
6	53223	Screw THMS M05-0.80 × 16	2
7	41309	Beacon Cover	1
8	41310	Beacon	1
9	44896	Frame Weldment	1
10	53067	Screw SHCS M05-0.80 × 40	4
11	41036	Limit Switch	2
12	53281	Nut NNYL M05-0.80 Flange	4
13	43594	Signal Plate	1
14	50423	Screw SHCS M04-0.70 × 12	2
15	53062	WSHR M04 Spring Washer	2
16	50284	WSHR M04 Standard Flat Washer	2
17	43593	Switch Bracket	1
18	50359	Screw SHCS M05-0.80 × 16	2
19	53265	Screw THMS M05-0.80 × 10	2
20	REF	Ground Control Assembly (Refer To page 89)	1
21	41001	Sheath	1

REF - Reference

Ground Control and Limit Switch - 2632SE, 3346SE, 4046SE, 4555SE

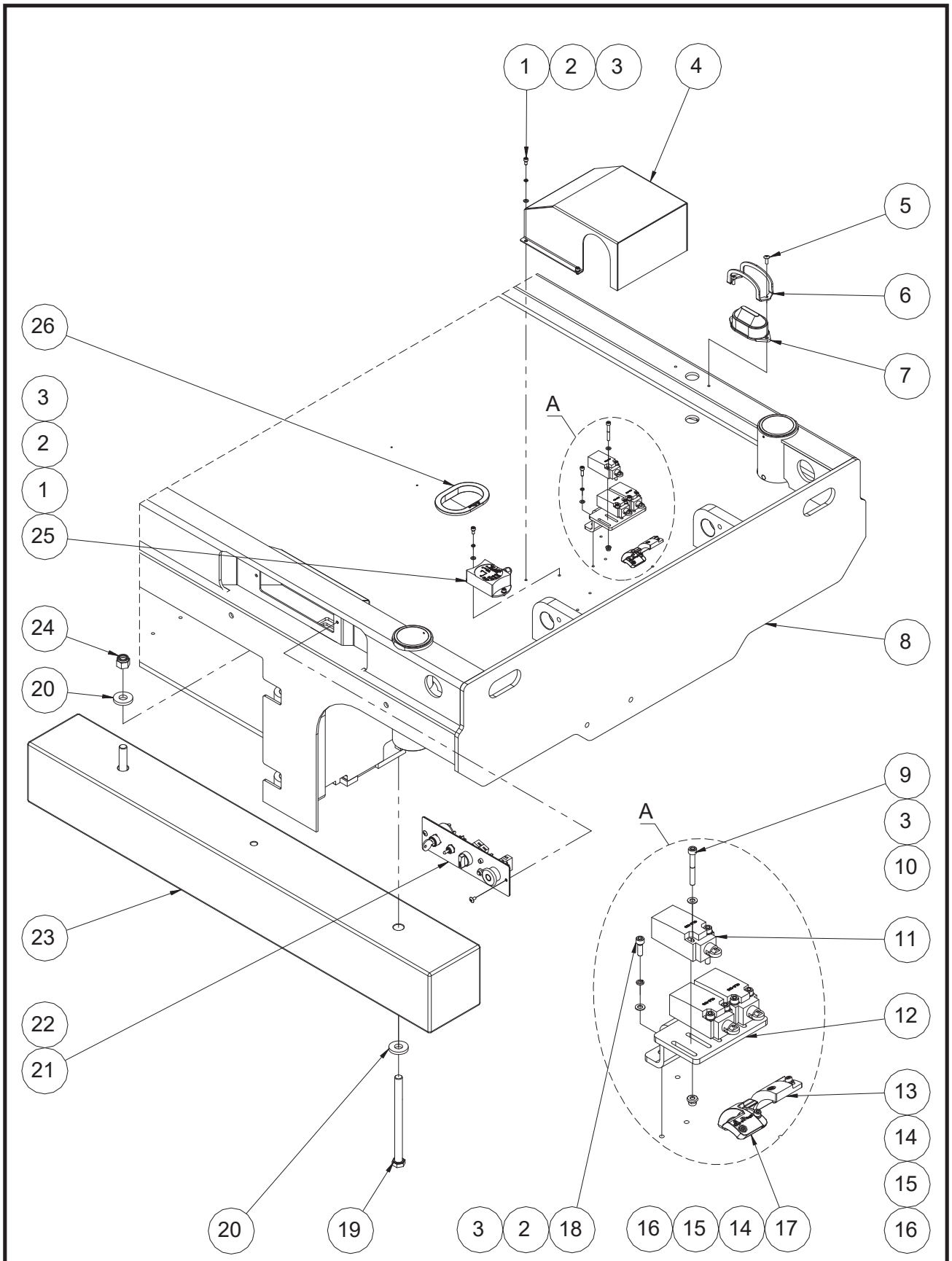


ILLUSTRATION No. ART_5847 2632SE, 3346SE, 4046SE, 4555SE Ground Control and Limit Switch

Item	Part Number	Description	Qty.
1	53173	Screw SHCS M05-0.80 × 10	6
2	53043	WSHR M05 Spring Washer	8
3	53038	WSHR M05 Standard Flat Washer	14
4	44942	Cover	1
5	53223	Screw THMS M05-0.80 × 16	2
6	41309	Beacon Cover	1
7	41310	Beacon	1
8	44943	Frame Weldment (2632SE)	1
	44944	Frame Weldment (3346SE, 4046SE)	1
	43984	Frame Weldment (4555SE)	1
9	53067	Screw SHCS M05-0.80 × 40	6
10	53281	Nut NNYL M05-0.80 Flange	6
11	41036	Limit Switch	3
12	44945	Switch Bracket	1
13	44946	Signal Plate	1
14	50423	Screw SHCS M04-0.70 × 12	4
15	53062	WSHR M04 Spring Washer	4
16	50284	WSHR M04 Standard Flat Washer	4
17	41097	Signal Plate	1
18	50359	Screw SHCS M05-0.80 × 16	2
19	53439	Screw HHCS M16-2.00 × 210 (3346SE, 4046SE)	2
20	44947	Washer 17 (3346SE, 4046SE)	4
21	REF	Ground Control Assembly (Refer To page 91)	1
22	53265	Screw THMS M05-0.80 × 10	2
23	44948	Counterweight 180 (3346SE)	1
	41457	Counterweight 400 (4046SE)	1
24	50051	Nut NNYL M16 × 2.00 (4046SE)	2
25	41098	Tilt Sensor	1
26	41001	Sheath	1

REF - Reference

Ground Control Assembly - 1930SE

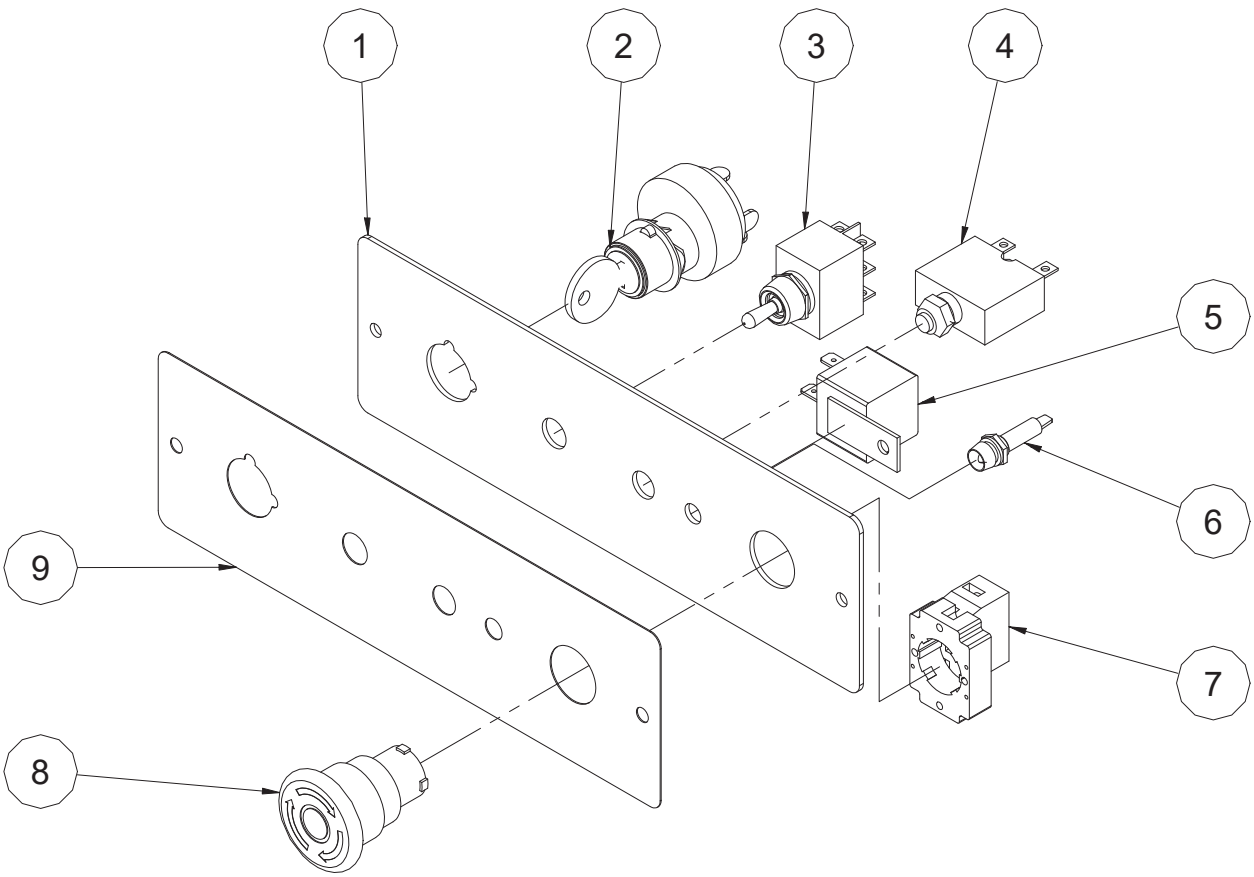


ILLUSTRATION No. ART_5848 1930SE Ground Control Assembly

Item	Part Number	Description	Qty.
1	41423	Ground Control Panel	1
2	41418	Key Switch	1
--	91574	Key	1
3	41419	Toggle Switch	1
4	41420	Circuit Breaker	1
5	41334	Relay	1
6	41421	Indicator	1
7	43097	Base With 1 NO Contact	1
8	43098	Red Mushroom Head	1
9	46231	Decal, Ground Control Panel	1

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

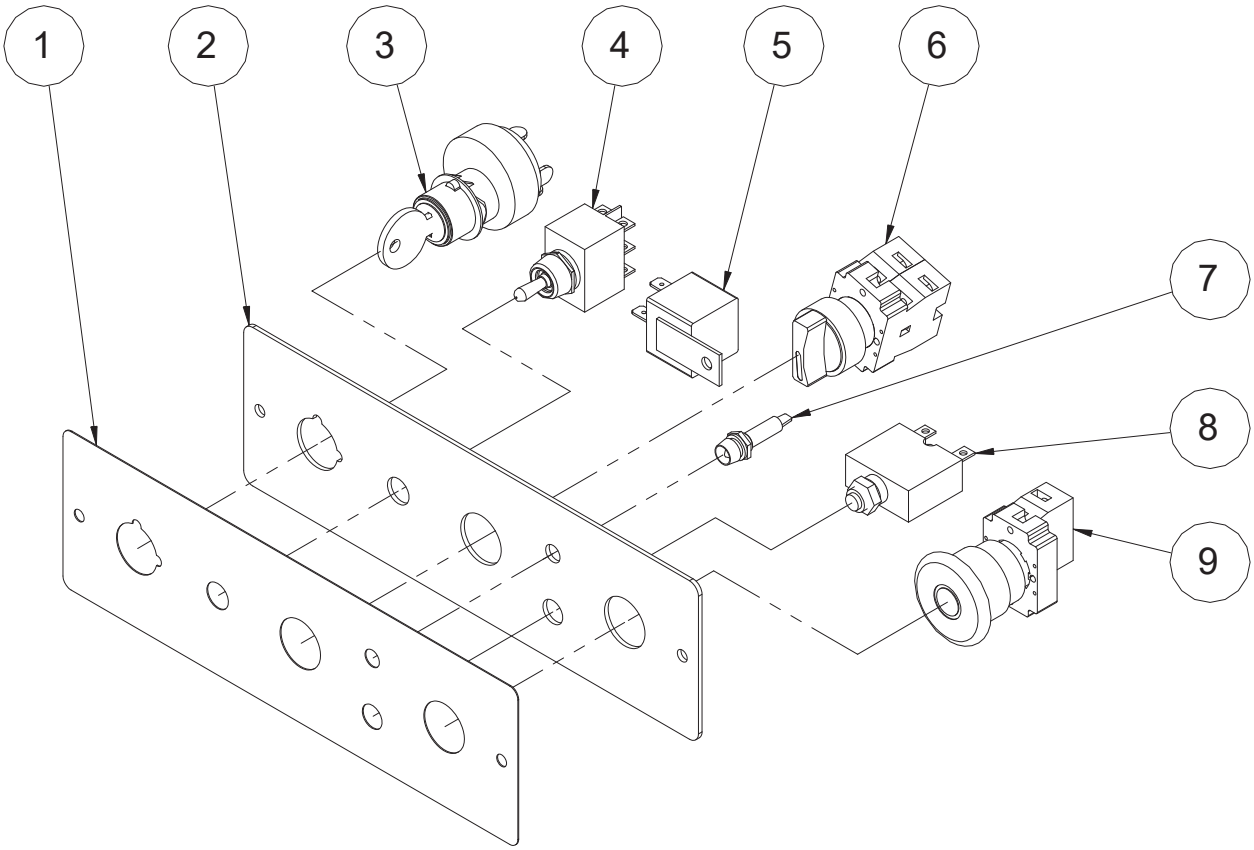


ILLUSTRATION No. ART_5848 2632SE, 3346SE, 4046SE, 4555SE Ground Control Assembly

Item	Part Number	Description	Qty.
1	95364	Decal, Ground Control Panel	1
2	44064	Ground Control Panel	1
3	41418	Key Switch	1
--	91574	Key	1
4	41419	Toggle Switch	1
5	41334	Relay	1
6	43992	Select Switch	1
--	43993	Select Switch Head	1
--	43994	Base With 1 NO Contact	1
--	43096	NC Contact	1
7	41421	Indicator	1
8	41420	Circuit Breaker	1
9	41422	Emergency Stop Switch	1
--	43097	Base With 1 NC Contact	1
--	43098	Red Mushroom Head	1

Scissor Assembly - 1930SE

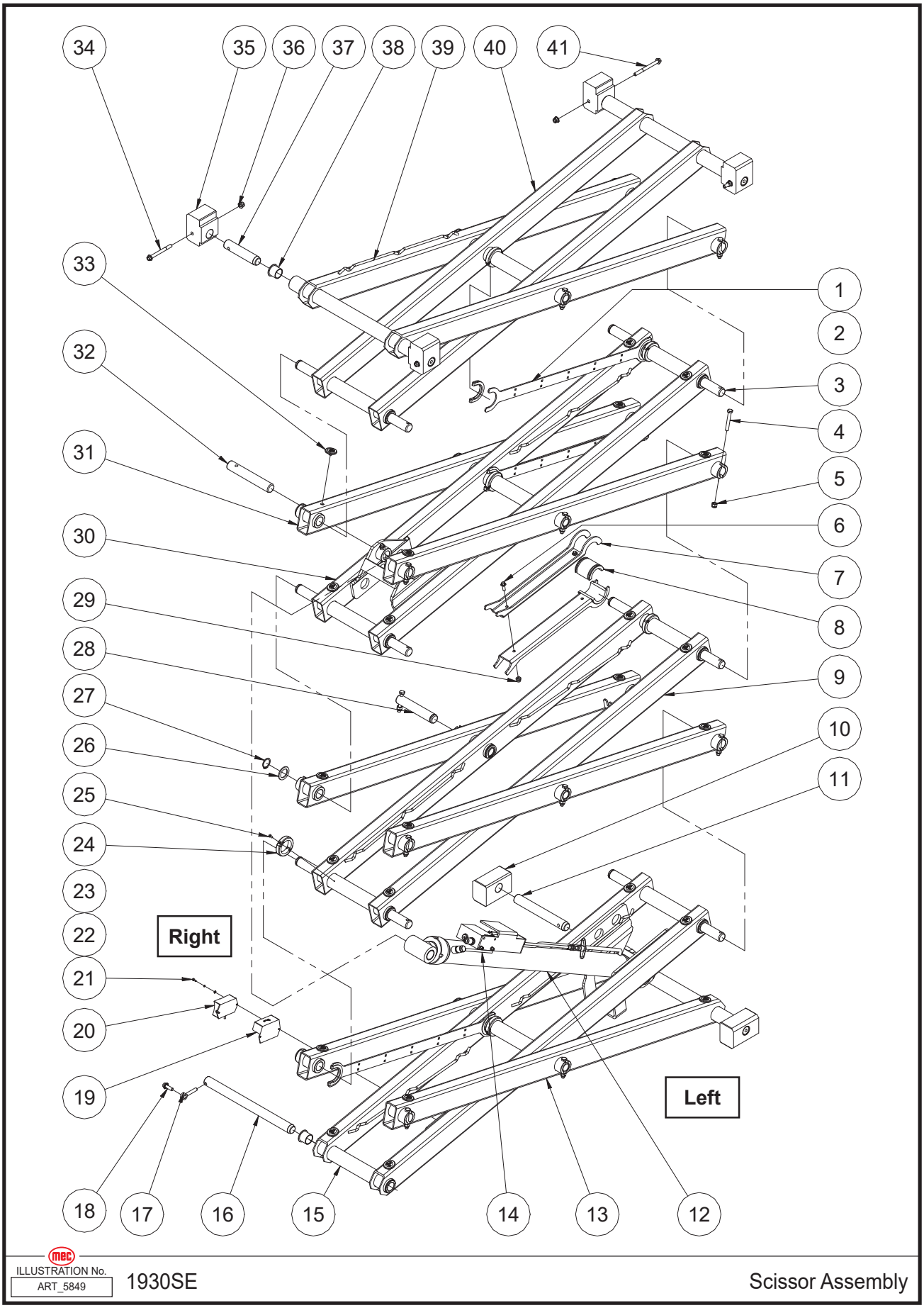


ILLUSTRATION No. ART_5849 1930SE Scissor Assembly

Item	Part Number	Description	Qty.
1	44897	Cable Bridge	3
2	44533	Clamp	6
3	44898	Pin	9
4	50022	Screw HHCS M10-1.50 × 70	15
5	50049	Nut NNYL M10 × 1.50	15
6	53270	Screw HHCS M08-1.25 × 25 Serrated Flange	2
7	41615	Safety Arm	2
8	41616	Safety Arm Bushing	2
9	44899	Inner Arm 2	1
10	41710	Chassis Slider	2
11	44900	Pin	2
12	REF	Lift Cylinder Assembly (Refer To page 131)	1
13	44901	Outer Arm 1	1
14	44902	Hose	1
15	44903	Inner Arm 1	1
16	44904	Pin	1
17	43024	Pin	1
18	53268	Screw HHCS M10-1.50 × 30 Serrated Flange	1
19	41111	Sensor Cover	1
20	41110	Angle Sensor	1
21	50483	Screw SHCS M04-0.70 × 10	2
22	53062	WSHR M04 Spring Washer	2
23	50284	WSHR M04 Standard Flat Washer	2
24	44884	Collar	6
25	53269	Screw CSCS M05-0.80 × 16	6
26	41688	Washer	11
27	43597	Circlips	11
28	41689	Pin	2
29	50313	Nut NNYL M08-1.25 Flange	2
30	44905	Inner Arm 3	1
31	44906	Outer Arm 2	2
--	44907	Left Single Link	1
--	44908	Right Single Link	1
32	44909	Pin	2
33	41114	Block	32
34	53271	Screw HHCS M10-1.50 × 100 Flange	2
35	43607	Platform Slider	4
36	50311	Nut NNYL M10-1.50 Flange	4
37	44910	Pin	4
38	41706	Bearing	28
39	44911	Outer Arm 3	1
40	44912	Inner Arm 4	1
41	53267	Screw HHCS M10-1.50 × 110 Flange	2

REF - Reference

Scissor Assembly - 2632SE

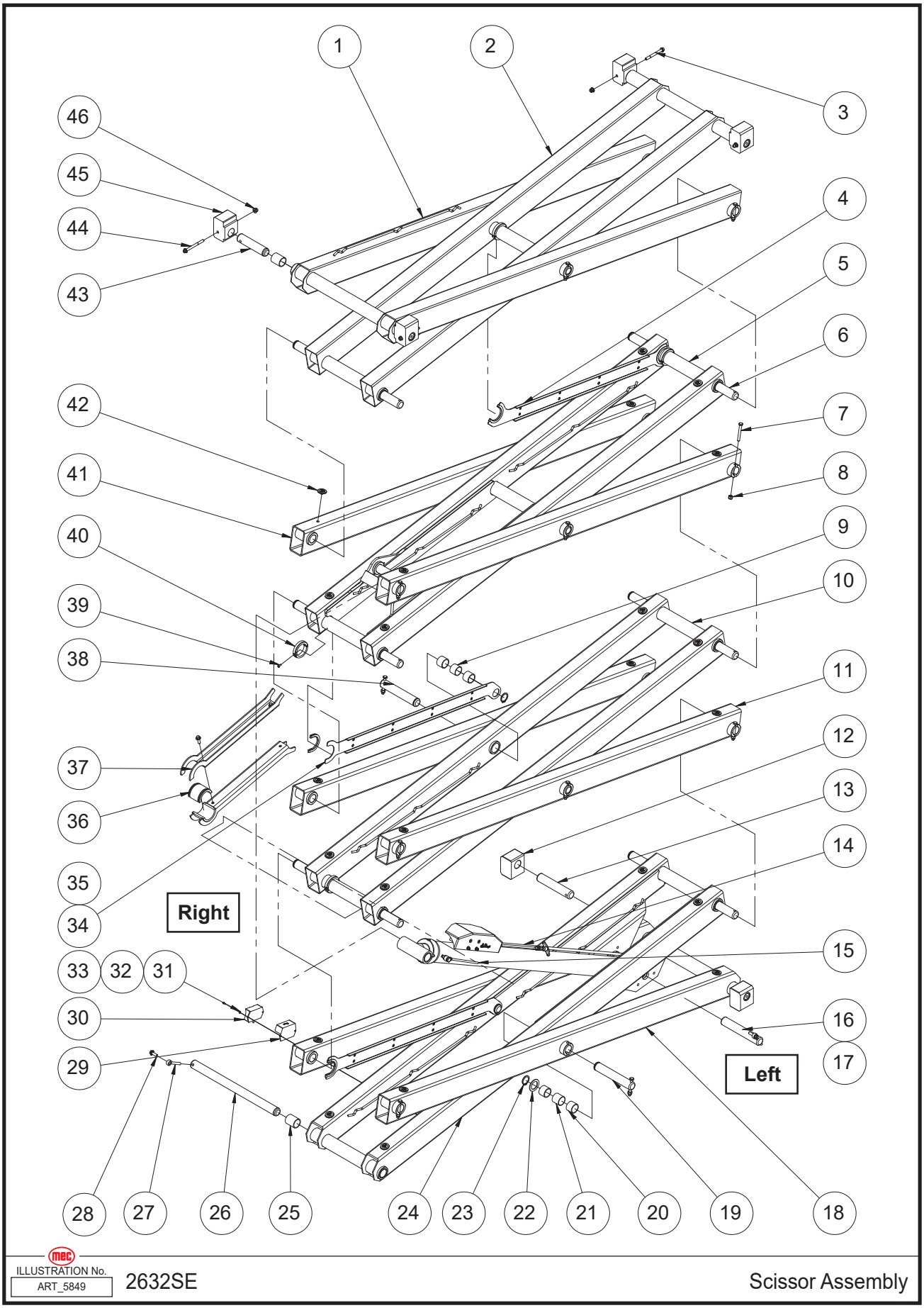


ILLUSTRATION No. ART_5849 2632SE Scissor Assembly

Item	Part Number	Description	Qty.
1	41478	Outer Arm 3	1
2	41492	Inner Arm 4	1
3	53271	Screw HHCS M10-1.50 × 100 Flange	2
4	41117	Cable Bridge	1
5	41495	Inner Arm 3	1
6	41479	Pin	8
7	50352	Screw HHCS M10-1.50 × 80	14
8	50049	Nut NNYL M10 × 1.50	14
9	41116	Spacer Sleeve	2
10	44949	Inner Arm 2	1
11	41489	Outer Arm	1
--	44950	Left Single Link	1
--	44951	Right Single Link	1
12	44952	Chassis Slider	2
13	44953	Pin	2
14	REF	Lower Lift Cylinder Assembly (Refer To page 133)	1
15	44954	Hose (To Tank)	1
16	41104	Pin	2
17	53440	Screw HHCS M10-1.50 × 40 Flange	1
18	44955	Outer Arm 1	1
19	41485	Pin	2
20	41105	Bearing	24
21	41487	Spacer Sleeve	2
22	41480	Washer	10
23	43248	Circlips	12
24	44956	Inner Arm 1	1
25	41103	Bearing	6
26	41432	Pin	1
27	41431	Pin	3
28	53268	Screw HHCS M10-1.50 × 30 Serrated Flange	4
29	41111	Sensor Cover	1
30	41110	Angle Sensor	1
31	50284	WSHR M04 Standard Flat Washer	2
32	53062	WSHR M04 Spring Washer	2
33	50483	Screw SHCS M04-0.70 × 10	2
34	44957	Cable Bridge	2
35	44534	Clamp	4
36	41109	Safety Arm Bushing	2
37	41108	Safety Arm	2
38	41491	Pin	2
39	53269	Screw CSCS M05-0.80 × 16	4
40	44958	Collar	4
41	41499	Outer Arm 3	1
--	44950	Left Single Link	1
--	44959	Right Single Link 5	1

42	41114	Block	24
43	41102	Pin	4
44	53267	Screw HHCS M10-1.50 × 110 Flange	2
45	41519	Platform Slider	4
46	50311	Nut NNYL M10-1.50 Flange	7

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Scissor Assembly - 3346SE

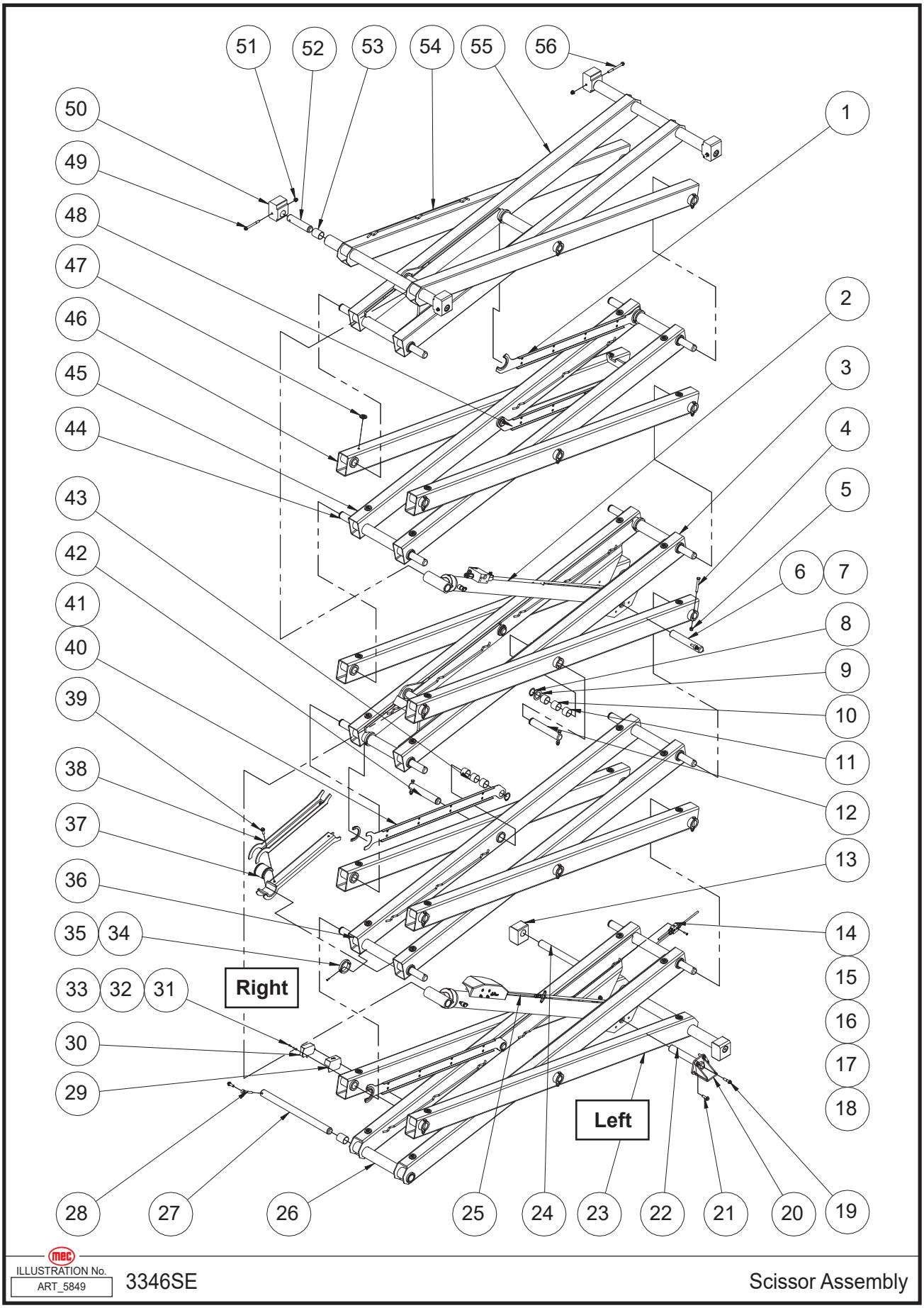


ILLUSTRATION No. ART_5849 3346SE Scissor Assembly

Item	Part Number	Description	Qty.
1	41117	Cable Bridge	1
2	REF	Upper Lift Cylinder Assembly (Refer To page 135)	1
3	41503	Inner Arm 3	1
4	50352	Screw HHCS M10-1.50 × 80	19
5	50049	Nut NNYL M10 × 1.50	19
6	41104	Pin	3
7	53440	Screw HHCS M10-1.50 × 40 Flange	1
8	43248	Circlips	17
9	41480	Washer	14
10	41487	Spacer Sleeve	4
11	41105	Bearing	34
12	41485	Pin	4
13	44952	Chassis Slider	2
14	41112	Hydraulic Hoses Manifolds	1
15	50386	Screw CSCS M06-1.00 × 25	2
16	44960	Hose (To Upper Lift Cylinder)	1
17	44961	Hose (To Tank)	1
18	43600	Hose (To Lower Lift Cylinder)	1
19	53441	Screw HHCS M10-1.50 × 45 Flange	1
20	41113	Pothole Pusher	2
21	53304	Screw HHCS M10-1.50 × 35 Serrated Flange	7
22	41498	Pin	1
23	44962	Outer Arm 1	1
24	44963	Pin	2
25	REF	Lower Lift Cylinder Assembly (Refer To page 133)	1
26	44956	Inner Arm 1	1
27	41432	Pin	1
28	41431	Pin	5
29	41111	Sensor Cover	1
30	41110	Angle Sensor	1
31	50483	Screw SHCS M04-0.70 × 10	2
32	50284	WSHR M04 Standard Flat Washer	2
33	53062	WSHR M04 Spring Washer	2
34	44958	Collar	5
35	53269	Screw CSCS M05-0.80 × 16	5
36	44949	Inner Arm 2	1
37	41109	Safety Arm Bushing	2
38	41108	Safety Arm	2
39	53268	Screw HHCS M10-1.50 × 30 Serrated Flange	5
40	44957	Cable Bridge	2
41	44534	Clamp	5
42	41491	Pin	4
43	41116	Spacer Sleeve	4
44	41479	Pin	9
45	41502	Inner Arm 4	1

46	41489	Outer Arm	3
--	44950	Left Single Link	1
--	44951	Right Single Link	1
47	41114	Block	32
48	41482	Cable Bridge	1
49	53271	Screw HHCS M10-1.50 × 100 Flange	2
50	41519	Platform Slider	4
51	50311	Nut NNYL M10-1.50 Flange	15
52	41102	Pin	4
53	41103	Bearing	6
54	41494	Outer Arm 5	1
55	41496	Inner Arm 5	1
56	53267	Screw HHCS M10-1.50 × 110 Flange	2

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Scissor Assembly - 4046SE

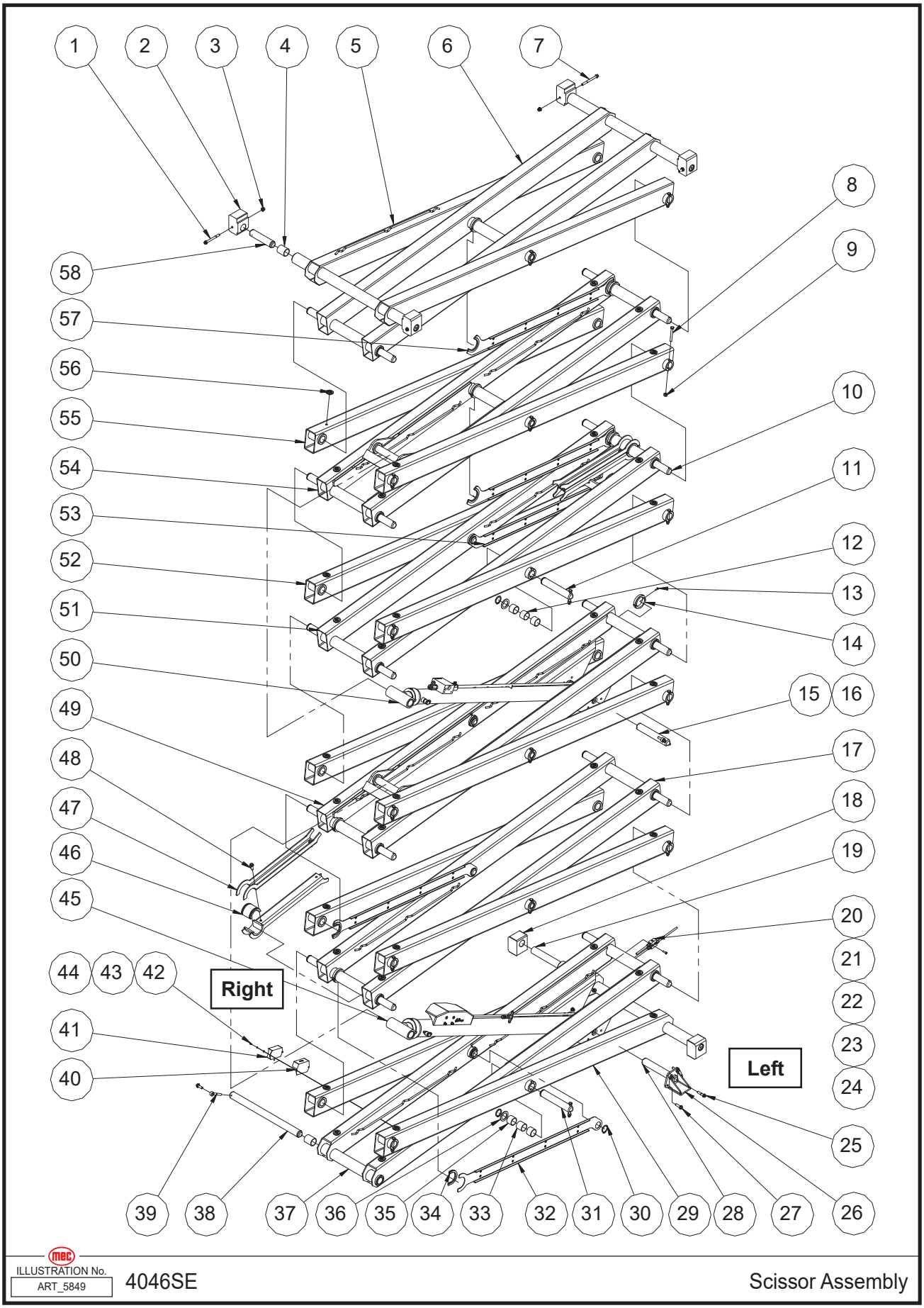


ILLUSTRATION No. ART_5849 4046SE Scissor Assembly

Item	Part Number	Description	Qty.
1	53271	Screw HHCS M10-1.50 × 100 Flange	2
2	41519	Platform Slider	4
3	50311	Nut NNYL M10-1.50 Flange	17
4	41103	Bearing	6
5	41494	Outer Arm 5	1
6	41493	Inner Arm 4	1
7	53267	Screw HHCS M10-1.50 × 110 Flange	2
8	50352	Screw HHCS M10-1.50 × 80	22
9	50049	Nut NNYL M10 × 1.50	22
10	41479	Pin	12
11	41491	Pin	4
12	41116	Spacer Sleeve	4
13	53269	Screw CSCS M05-0.80 × 16	7
14	44958	Collar	7
15	41104	Pin	3
16	53440	Screw HHCS M10-1.50 × 40 Flange	1
17	44949	Inner Arm 2	1
18	44952	Chassis Slider	2
19	44963	Pin	2
20	41112	Hydraulic Hoses Manifolds	1
21	50386	Screw CSCS M06-1.00 × 25	2
22	44960	Hose (To Upper Lift Cylinder)	1
23	44961	Hose (To Tank)	1
24	43600	Hose (To Lower Lift Cylinder)	1
25	53441	Screw HHCS M10-1.50 × 45 Flange	1
26	41113	Pothole Pusher	2
27	53304	Screw HHCS M10-1.50 × 35 Serrated Flange	7
28	41498	Pin	1
29	44962	Outer Arm 1	1
30	43248	Circlips	20
31	41485	Pin	4
32	44957	Cable Bridge	2
33	41487	Spacer Sleeve	4
34	44534	Clamp	7
35	41105	Bearing	40
36	41480	Washer	17
37	44956	Inner Arm 1	1
38	41432	Pin	1
39	41431	Pin	5
40	41111	Sensor Cover	1
41	41110	Angle Sensor	1
42	50483	Screw SHCS M04-0.70 × 10	2
43	53062	WSHR M04 Spring Washer	2
44	50284	WSHR M04 Standard Flat Washer	2
45	REF	Lower Lift Cylinder Assembly (Refer To page 133)	1

46	41109	Safety Arm Bushing	4
47	41108	Safety Arm	4
48	53268	Screw HHCS M10-1.50 × 30 Serrated Flange	7
49	41503	Inner Arm 3	1
50	REF	Upper Lift Cylinder Assembly (Refer To page 135)	1
51	41502	Inner Arm 4	1
52	41489	Outer Arm	3
--	44950	Left Single Link	1
--	44951	Right Single Link	1
53	41482	Cable Bridge	1
54	41495	Inner Arm 3	1
55	41499	Outer Arm 3	1
--	44950	Left Single Link	1
--	44959	Right Single Link 5	1
56	41114	Block	40
57	41117	Cable Bridge	2
58	41102	Pin	4

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Scissor Assembly - 4555SE

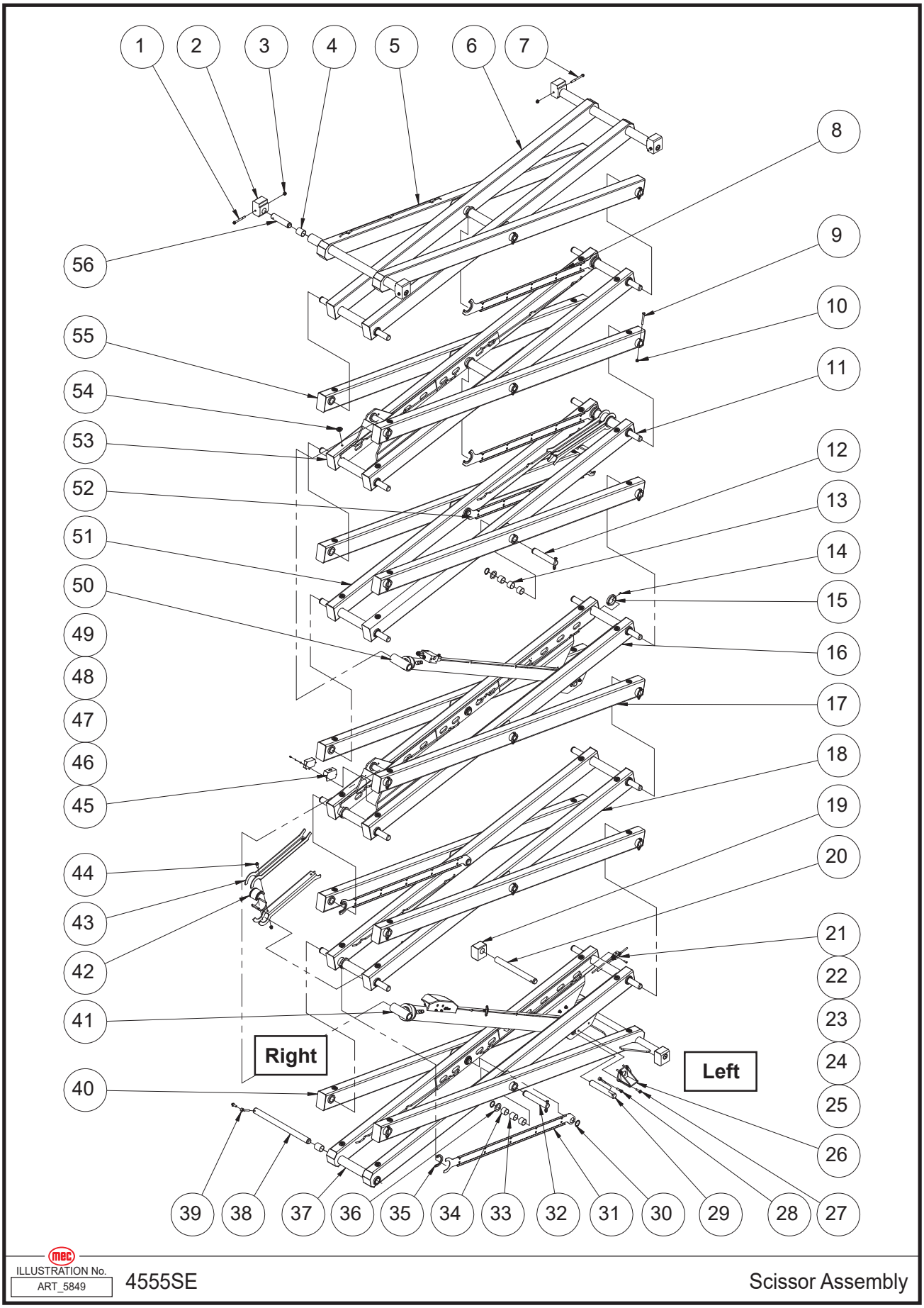


ILLUSTRATION No. ART_5849 4555SE Scissor Assembly

Item	Part Number	Description	Qty.
1	53271	Screw HHCS M10-1.50 × 100 Flange	2
2	41519	Platform Slider	4
3	50311	Nut NNYL M10-1.50 Flange	18
4	41103	Bearing	6
5	41507	Outer Arm 6	1
6	41506	Inner Arm 6	1
7	53267	Screw HHCS M10-1.50 × 110 Flange	2
8	41118	Cable Bridge	2
9	50352	Screw HHCS M10-1.50 × 80	22
10	50049	Nut NNYL M10 × 1.50	22
11	41479	Pin	12
12	41491	Pin	4
13	41116	Spacer Sleeve	4
14	53269	Screw CSCS M05-0.80 × 16	7
15	44958	Collar	7
16	42582	Inner Arm 3	1
17	41510	Outer Arm 2-3	3
--	44964	Left Single Link	1
--	44965	Right Single Link	1
18	44965	Inner Arm 2	1
19	44952	Chassis Slider	2
20	44966	Pin	2
21	41112	Hydraulic Hoses Manifolds	1
22	50386	Screw CSCS M06-1.00 × 25	2
23	44967	Hose (To Upper Lift Cylinder)	1
24	44968	Hose (To Tank)	1
25	44969	Hose (To Lower Lift Cylinder)	1
26	41113	Pothole Pusher	2
27	53304	Screw HHCS M10-1.50 × 35 Serrated Flange	8
28	53440	Screw HHCS M10-1.50 × 40 Flange	2
29	41104	Pin	4
30	43248	Circlips	20
31	44957	Cable Bridge	2
32	41485	Pin	4
33	41487	Spacer Sleeve	4
34	41105	Bearing	40
35	44534	Clamp	7
36	41480	Washer	17
37	44970	Inner Arm 1	1
38	41432	Pin	1
39	41431	Pin	5
40	41515	Outer Arm 1	1
41	REF	Lower Lift Cylinder Assembly (Refer To page 133)	1
42	41109	Safety Arm Bushing	4
43	41108	Safety Arm	4

44	53268	Screw HHCS M10-1.50 × 30 Serrated Flange	7
45	41111	Sensor Cover	1
46	41110	Angle Sensor	1
47	50284	WSHR M04 Standard Flat Washer	2
48	53062	WSHR M04 Spring Washer	2
49	50483	Screw SHCS M04-0.70 × 10	2
50	REF	Upper Lift Cylinder Assembly (Refer To page 135)	1
51	41511	Inner Arm 4	1
52	41107	Cable Bridge	1
53	42583	Inner Arm 5	1
54	41114	Block	40
55	41508	Outer Arm 5	1
--	44964	Left Single Link	1
--	44971	Right Single Link 5	1
56	41102	Pin	4

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Main Platform Assembly - 1930SE

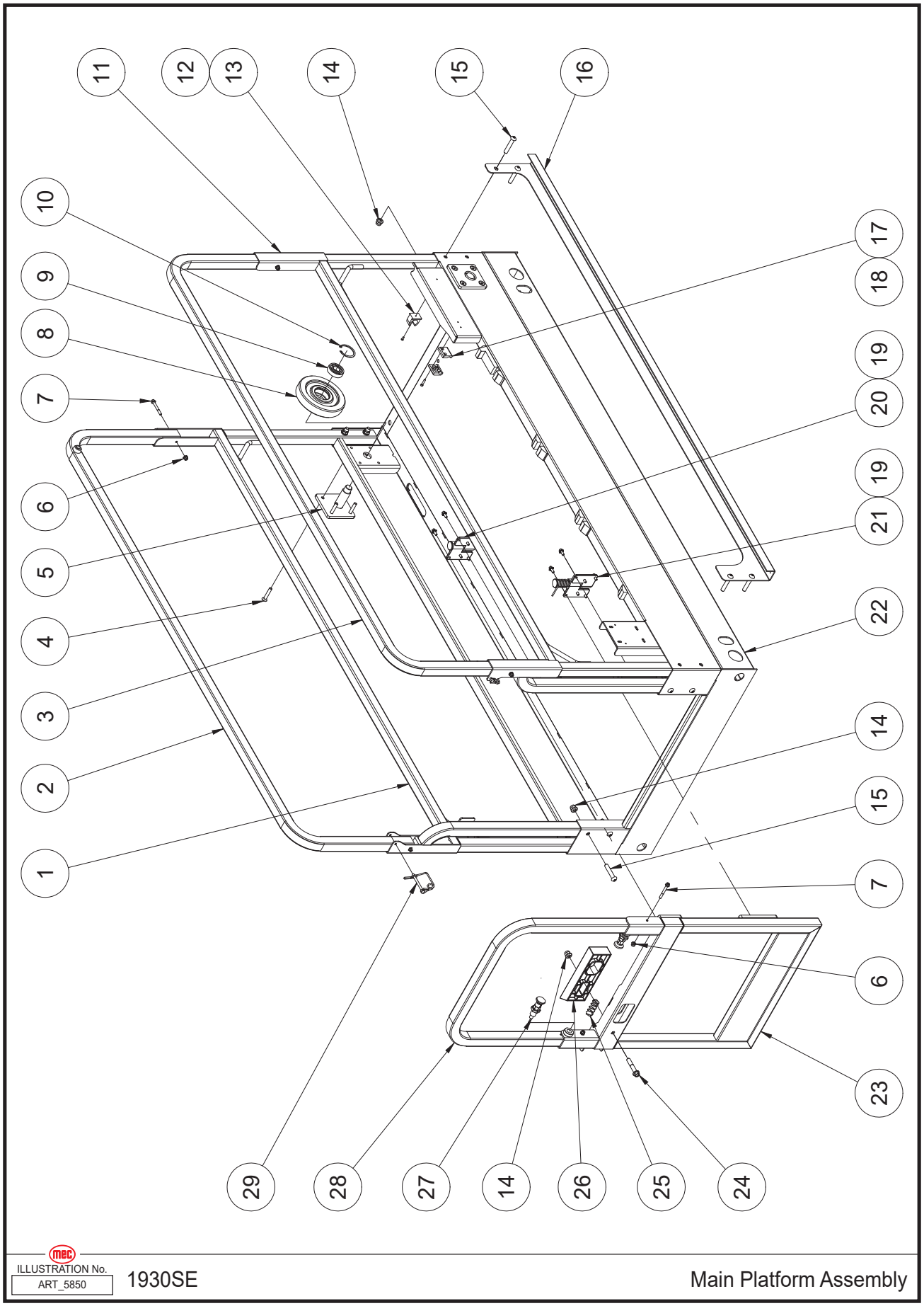


ILLUSTRATION No. ART_5850 1930SE Main Platform Assembly

Item	Part Number	Description	Qty.
1	44872	Lower Main Rail, Left	1
2	44873	Upper Main Rail, Left	1
3	44874	Upper Main Rail, Right	1
4	53275	Screw CSCS M08-1.25 × 45	8
5	41360	Roller Bracket	2
6	50568	Nut NNYL M06-1.00 Flange	6
7	53274	Screw HHCS M06-1.00 × 50 Flange	6
8	43617	Roller	2
9	41131	Bearing	2
10	43618	Circlips	2
11	44875	Lower Main Rail, Right	1
12	53276	Screw PHMS M04-0.70 × 8	1
13	41134	Clip	1
14	50311	Nut NNYL M10-1.50 Flange	13
15	53277	Screw BHCS M10-1.50 × 55	12
16	44876	Sheet Material Tray	1
17	41059	Wire Clip	2
18	53278	Screw SHCS M04-0.70 × 20	2
19	53273	Screw HHCS M06-1.00 × 14 Serrated Flange	12
20	41127	Hinge A	1
21	41128	Hinge B	1
22	44877	Main Deck Weldment	1
23	43614	Entry Gate	1
24	53272	Screw HHCS M10-1.50 × 55 Flange	1
25	41125	Spring	1
26	41124	Latch Handle	1
27	43337	Lock Pin	2
28	43613	Door Rail	1
29	41357	Inserted Pin	2

Platform Extension Assembly - 1930SE

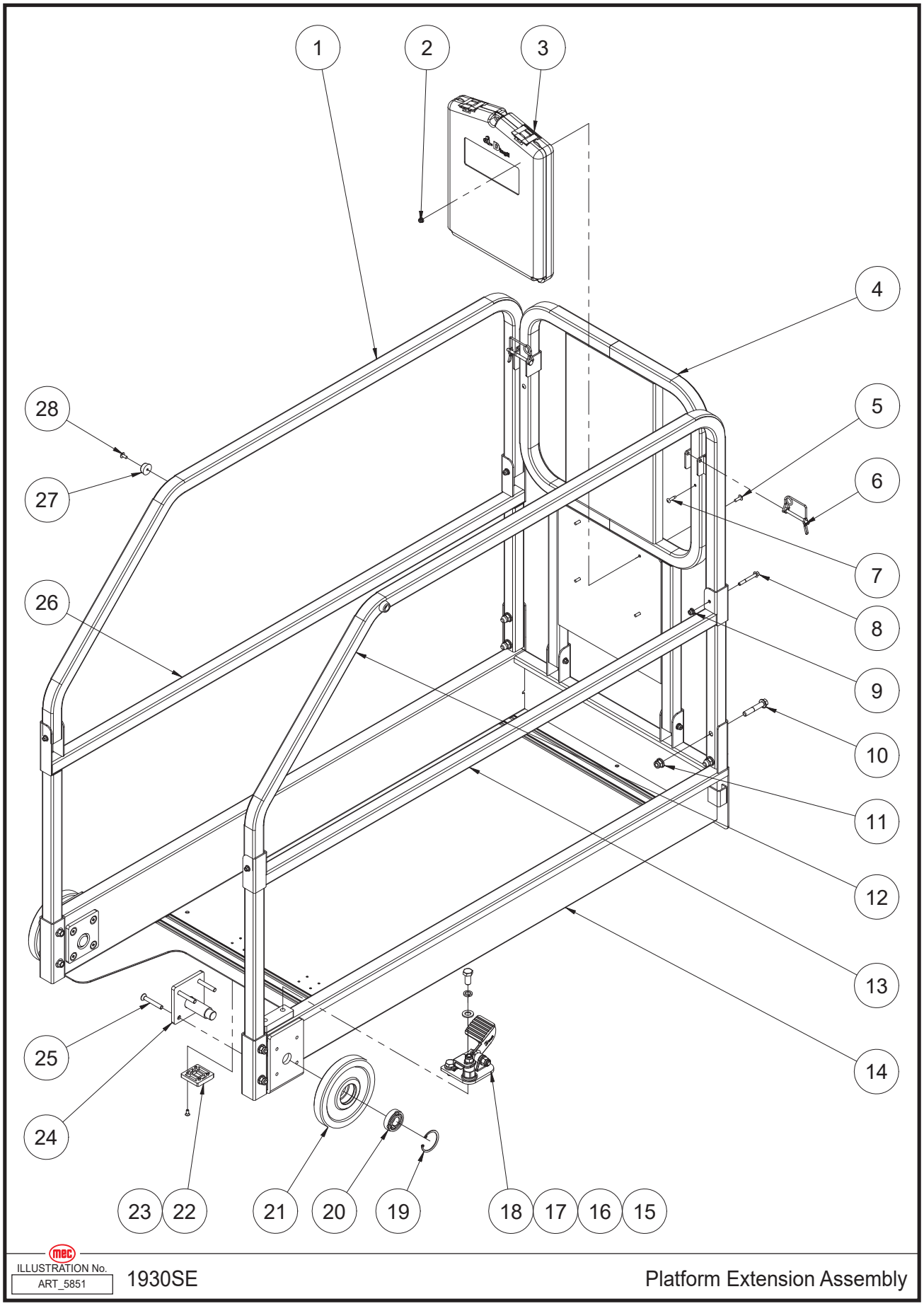


ILLUSTRATION No. ART_5851 1930SE Platform Extension Assembly

Item	Part Number	Description	Qty.
1	44878	Upper Extension Rail, Left	1
2	53281	Nut NNYL M05-0.80 Flange	4
3	43319	Manual Box	1
4	44879	Front Rail	1
5	53223	Screw THMS M05-0.80 × 16	4
6	41357	Inserted Pin	2
7	43301	Rivet	2
8	53274	Screw HHCS M06-1.00 × 50 Flange	6
9	50568	Nut NNYL M06-1.00 Flange	6
10	53272	Screw HHCS M10-1.50 × 55 Flange	8
11	50311	Nut NNYL M10-1.50 Flange	8
12	44880	Upper Extension Rail, Right	1
13	44881	Lower Extension Rail, Right	1
14	44882	Extension Deck Weldment	1
15	50038	Screw HHCS M12-1.50 × 25	2
16	53148	WSHR M12 Spring Washer	2
17	50003	WSHR M12 Standard Flat Washer	2
18	REF	Platform Locking Device Assembly (Refer To page 125)	1
19	43618	Circlips	2
20	41131	Bearing	2
21	43620	Roller	2
22	41284	Slide Pad	2
23	53279	Screw CSCS M05-0.80 × 12	8
24	41360	Roller Bracket	2
25	53280	Screw CSCS M08-1.25 × 55	8
26	44883	Lower Extension Rail, Left	1
27	41120	Bumper	2
28	53224	Screw THMS M05-0.80 × 12	2

REF - Reference

Main Platform Assembly - 2632SE

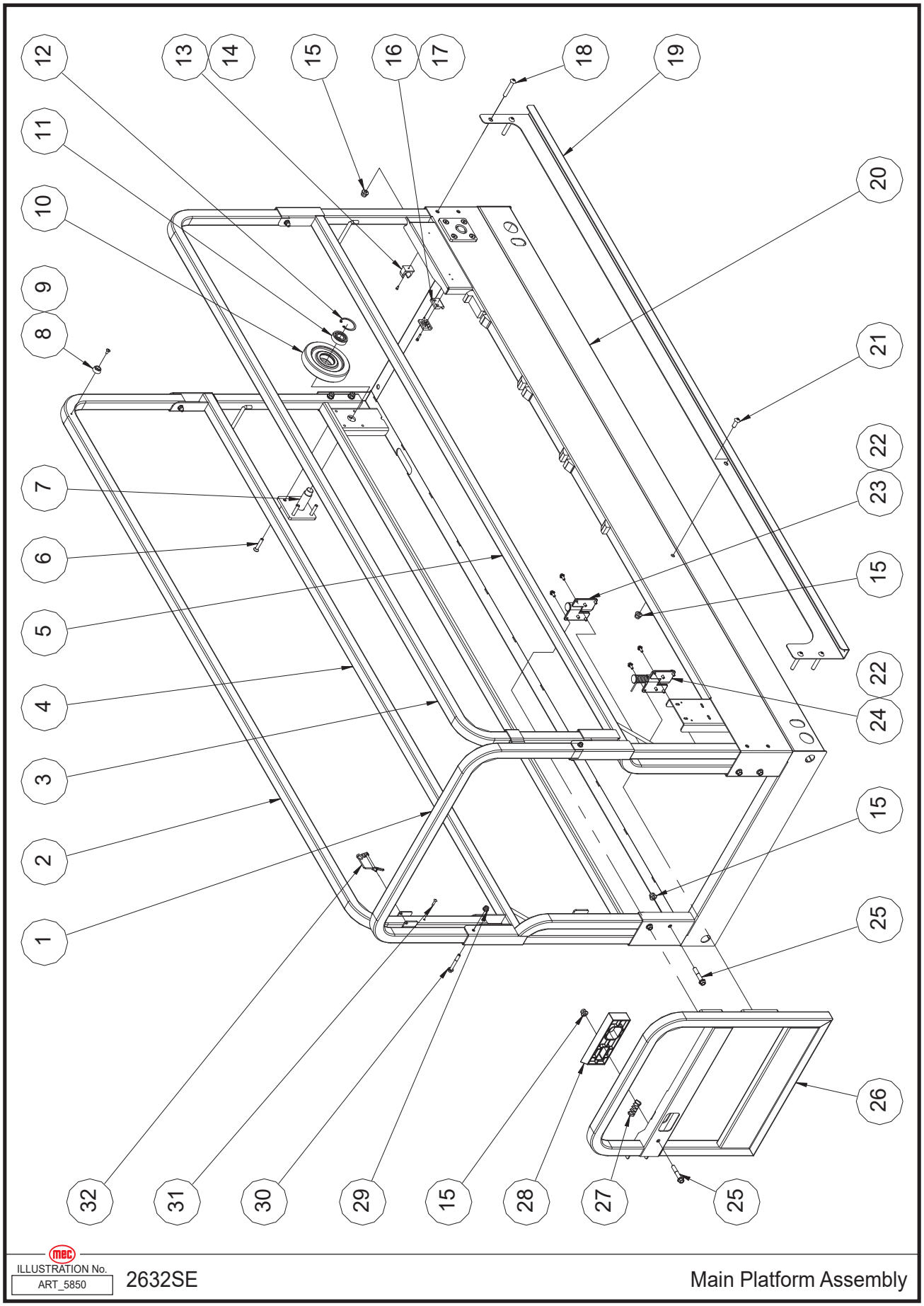


ILLUSTRATION No. ART_5850 2632SE Main Platform Assembly

Item	Part Number	Description	Qty.
1	44972	Rear Rail	1
2	44973	Upper Main Rail, Left	1
3	41520	Upper Main Rail, Right	1
4	44974	Lower Main Rail, Left	1
5	44975	Lower Main Rail, Right	1
6	53275	Screw CSCS M08-1.25 × 45	8
7	41360	Roller Bracket	2
8	41120	Bumper	1
9	53224	Screw THMS M05-0.80 × 12	1
10	43617	Roller	2
11	41131	Bearing	2
12	43618	Circlips	2
13	41134	Clip	1
14	53276	Screw PHMS M04-0.70 × 8	1
15	50311	Nut NNYL M10-1.50 Flange	14
16	41059	Wire Clip	2
17	53278	Screw SHCS M04-0.70 × 20	2
18	53295	Screw BHCS M10-1.50 × 60	4
19	44976	Sheet Material Tray	1
20	44977	Main Deck Weldment	1
21	50297	Screw BHCS M10-1.50 × 25	1
22	53273	Screw HHCS M06-1.00 × 14 Serrated Flange	12
23	41127	Hinge A	1
24	41128	Hinge B	1
25	53272	Screw HHCS M10-1.50 × 55 Flange	9
26	44978	Entry Gate	1
27	41125	Spring	1
28	41124	Latch Handle	1
29	50313	Nut NNYL M08-1.25 Flange	6
30	53442	Screw HHCS M08-1.25 × 60 Flange	6
31	43301	Rivet	2
32	41357	Inserted Pin	2

Platform Extension Assembly - 2632SE

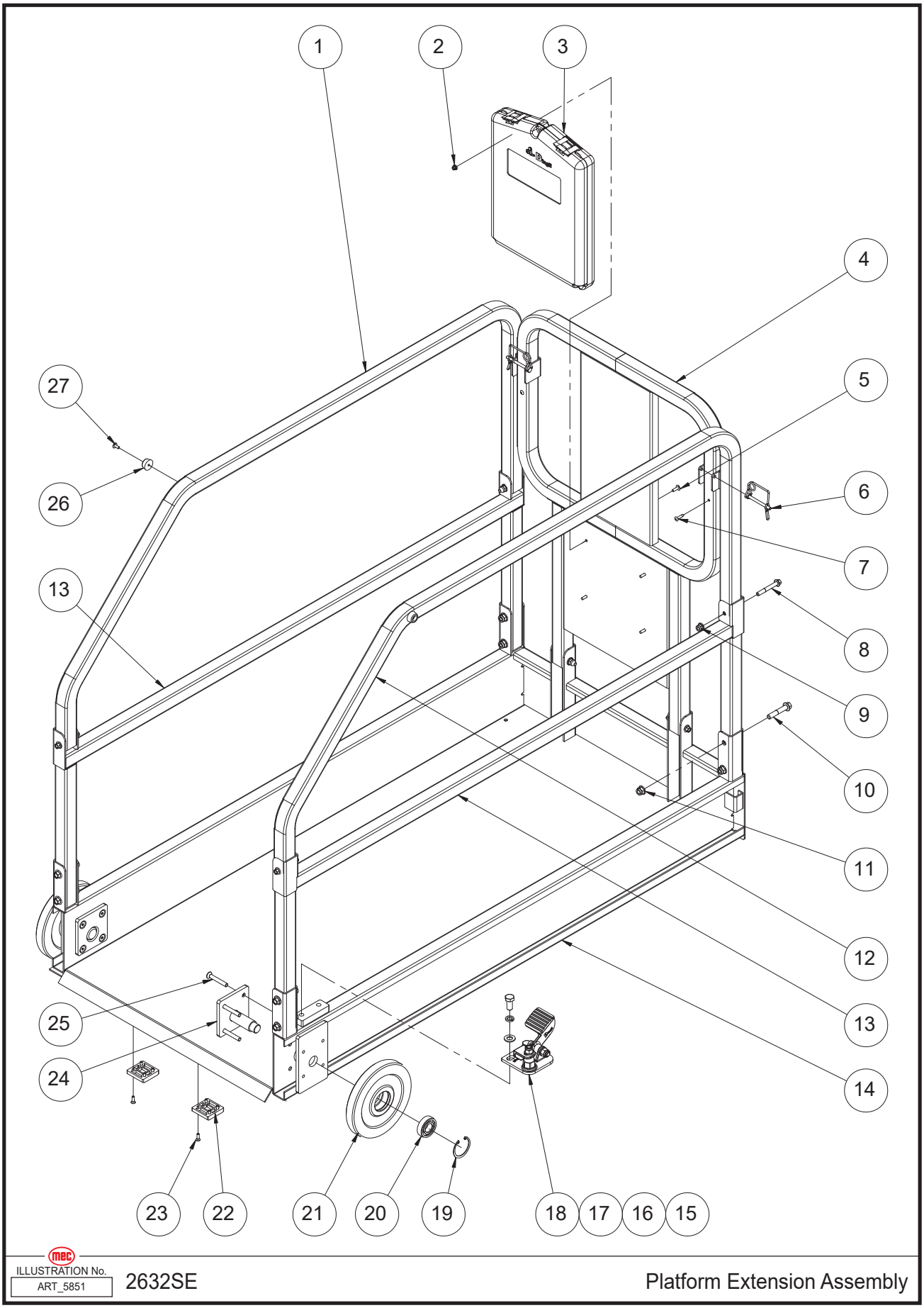


ILLUSTRATION No. ART_5851 2632SE Platform Extension Assembly

Item	Part Number	Description	Qty.
1	44979	Left Extension Rail	1
2	53281	Nut NNYL M05-0.80 Flange	4
3	43319	Manual Box	1
4	41531	Front Rail	1
5	53223	Screw THMS M05-0.80 × 16	4
6	41357	Inserted Pin	2
7	43301	Rivet	2
8	53442	Screw HHCS M08-1.25 × 60 Flange	6
9	50313	Nut NNYL M08-1.25 Flange	6
10	53272	Screw HHCS M10-1.50 × 55 Flange	8
11	50311	Nut NNYL M10-1.50 Flange	8
12	41530	Right Extension Rail	1
13	44980	Lower Extension Rail	2
14	44981	Extension Deck Weldment	1
15	50038	Screw HHCS M12-1.50 × 25	2
16	53148	WSHR M12 Spring Washer	2
17	50003	WSHR M12 Standard Flat Washer	2
18	REF	Platform Locking Device Assembly (Refer To page 125)	1
19	43618	Circlips	2
20	41131	Bearing	2
21	46209	Roller	2
22	41284	Slide Pad	2
23	53269	Screw CSCS M05-0.80 × 16	8
24	41360	Roller Bracket	2
25	53280	Screw CSCS M08-1.25 × 55	8
26	41120	Bumper	2
27	53224	Screw THMS M05-0.80 × 12	2

REF - Reference

Main Platform Assembly - 3346SE

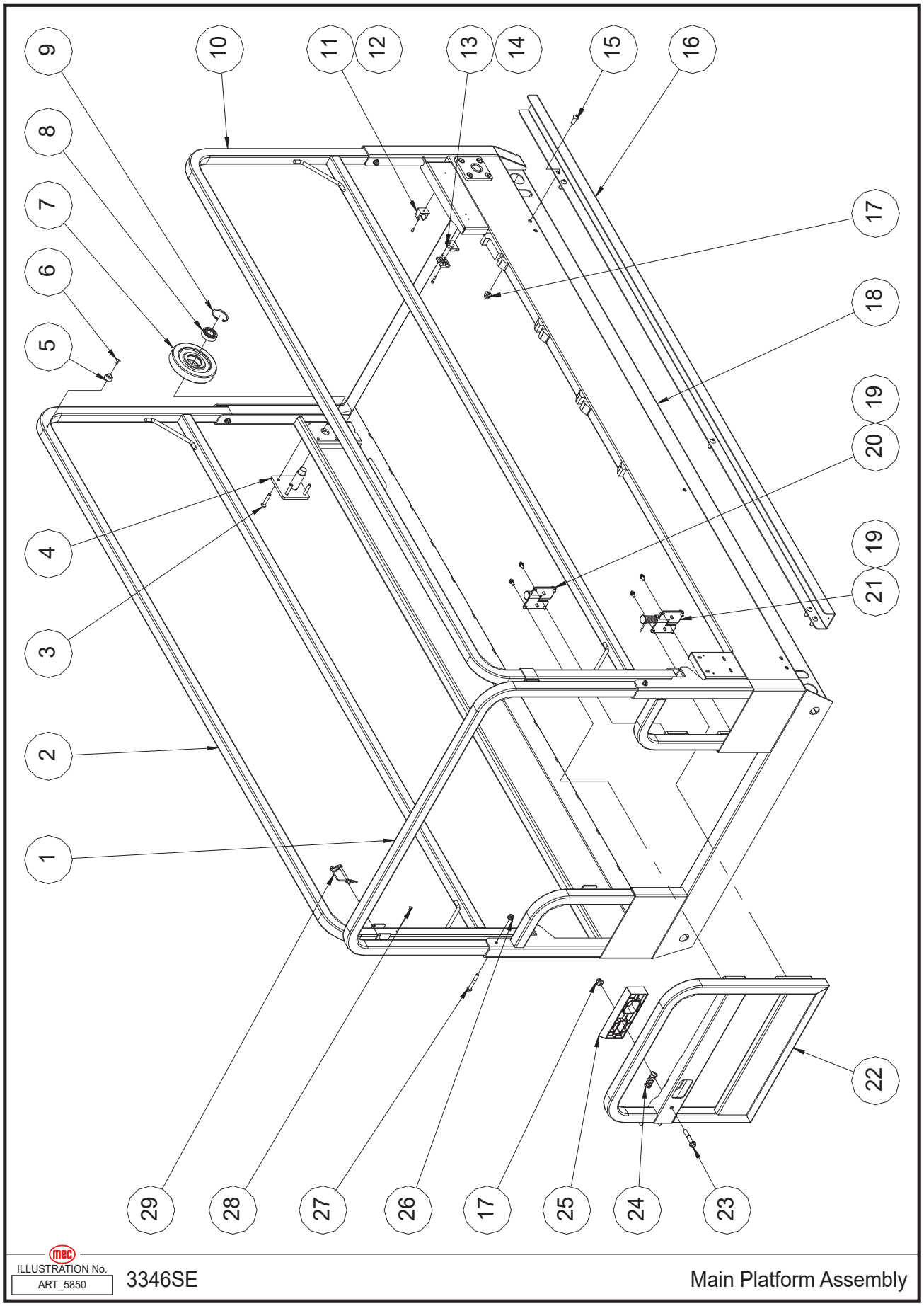


ILLUSTRATION No. ART_5850 3346SE Main Platform Assembly

Item	Part Number	Description	Qty.
1	43541	Rear Rail	1
2	41535	Left Main Rail	1
3	53275	Screw CSCS M08-1.25 × 45	8
4	41360	Roller Bracket	2
5	41120	Bumper	1
6	53224	Screw THMS M05-0.80 × 12	1
7	43617	Roller	2
8	41131	Bearing	2
9	43618	Circlips	2
10	41534	Right Main Rail	1
11	41134	Clip	1
12	53276	Screw PHMS M04-0.70 × 8	1
13	41059	Wire Clip	2
14	53278	Screw SHCS M04-0.70 × 20	2
15	50297	Screw BHCS M10-1.50 × 25	5
16	41769	Sheet Material Tray	1
17	50311	Nut NNYL M10-1.50 Flange	6
18	44982	Main Deck Weldment	1
19	53273	Screw HHCS M06-1.00 × 14 Serrated Flange	12
20	41127	Hinge A	1
21	41128	Hinge B	1
22	41589	Entry Gate	1
23	53272	Screw HHCS M10-1.50 × 55 Flange	1
24	41125	Spring	1
25	41124	Latch Handle	1
26	50313	Nut NNYL M08-1.25 Flange	6
27	53442	Screw HHCS M08-1.25 × 60 Flange	6
28	43301	Rivet	2
29	41357	Inserted Pin	2

Main Platform Assembly - 4046SE, 4555SE

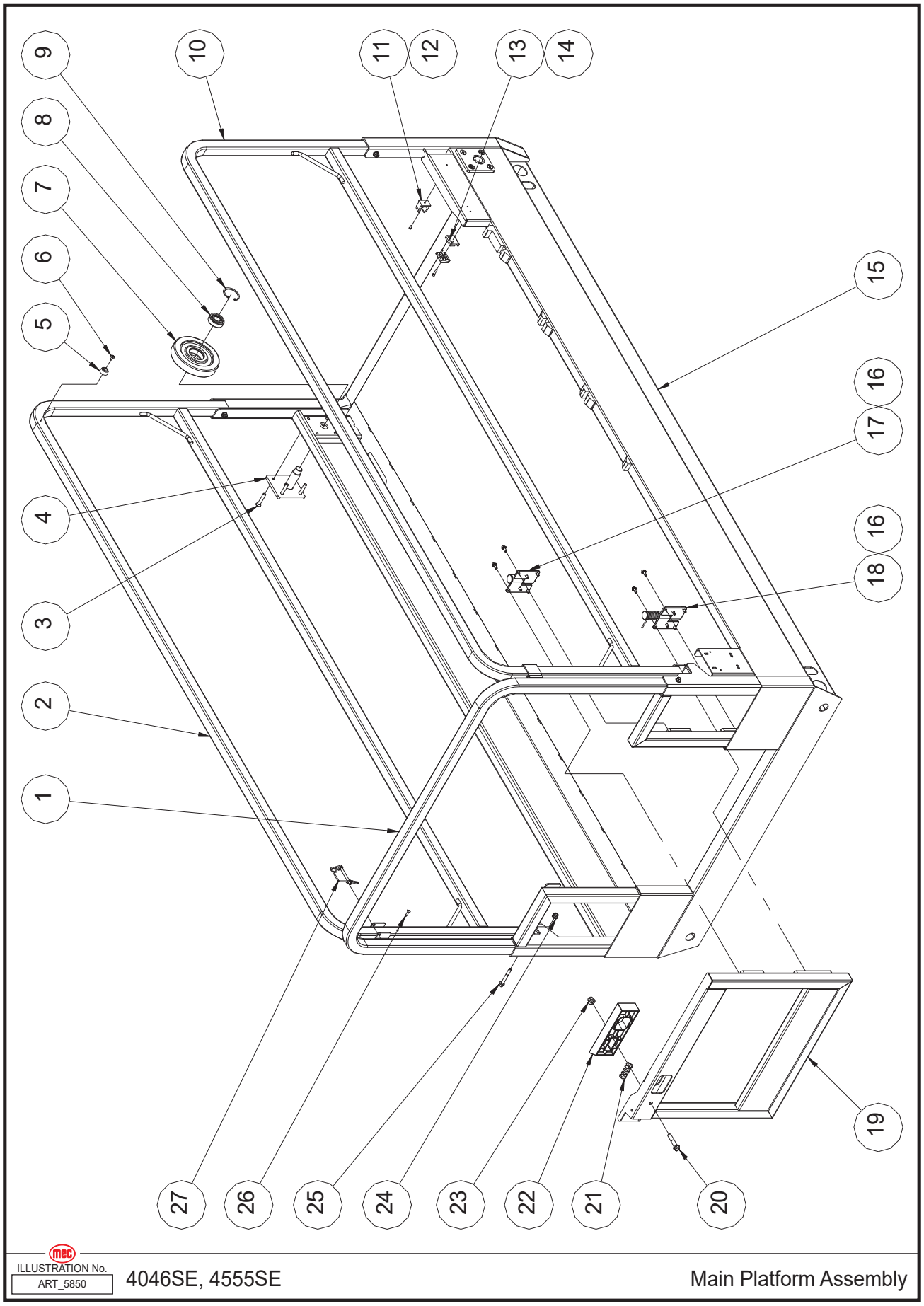


ILLUSTRATION No. ART_5850

4046SE, 4555SE

Main Platform Assembly

Item	Part Number	Description	Qty.
1	44983	Rear Rail	1
2	41535	Left Main Rail (4046SE)	1
	41122	Left Main Rail (4555SE)	1
3	53275	Screw CSCS M08-1.25 × 45	8
4	41360	Roller Bracket	2
5	41120	Bumper	1
6	53224	Screw THMS M05-0.80 × 12	1
7	43617	Roller	2
8	41131	Bearing	2
9	43618	Circlips	2
10	41534	Right Main Rail (4046SE)	1
	41119	Right Main Rail (4555SE)	1
11	41134	Clip	1
12	53276	Screw PHMS M04-0.70 × 8	1
13	41059	Wire Clip	2
14	53278	Screw SHCS M04-0.70 × 20	2
15	44984	Main Deck Weldment (4046SE)	1
	44985	Main Deck Weldment (4555SE)	1
16	53273	Screw HHCS M06-1.00 × 14 Serrated Flange	12
17	41127	Hinge A	1
18	41128	Hinge B	1
19	44986	Entry Gate	1
20	53443	Screw HHCS M10-1.50 × 50 Flange	1
21	41125	Spring	1
22	41124	Latch Handle	1
23	50311	Nut NNYL M10-1.50 Flange	1
24	50313	Nut NNYL M08-1.25 Flange	6
25	53442	Screw HHCS M08-1.25 × 60 Flange	6
26	43301	Rivet	2
27	41357	Inserted Pin	2

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

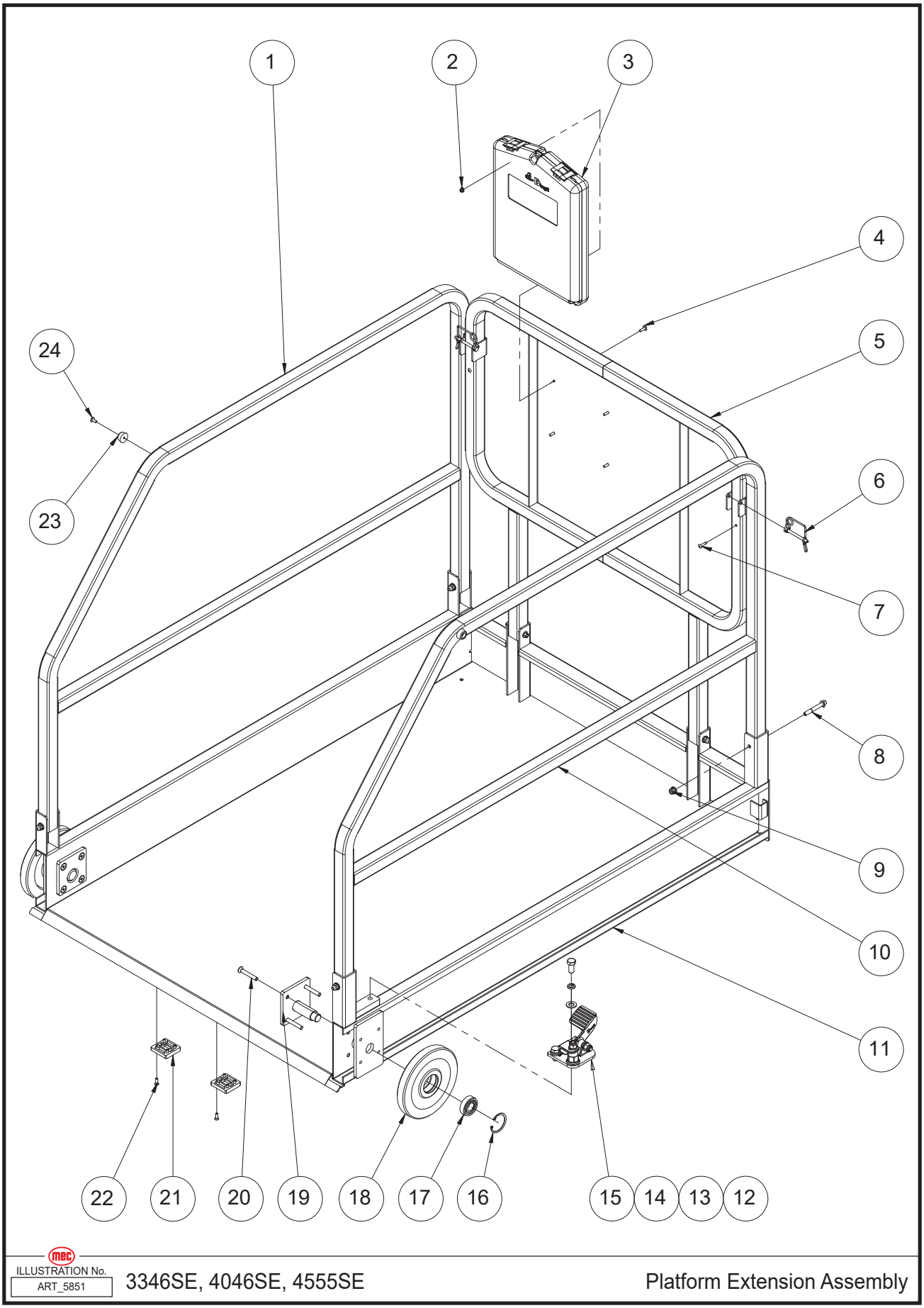


ILLUSTRATION No. ART_5851 3346SE, 4046SE, 4555SE Platform Extension Assembly

Item	Part Number	Description	Qty.
1	41135	Left Extension Rail	1
2	53281	Nut NNYL M05-0.80 Flange	4
3	43319	Manual Box	1
4	53223	Screw THMS M05-0.80 × 16	4
5	41136	Front Rail	1
6	41357	Inserted Pin	2
7	43301	Rivet	2
8	53442	Screw HHCS M08-1.25 × 60 Flange	6
9	50313	Nut NNYL M08-1.25 Flange	6
10	41139	Right Extension Rail	1
11	44987	Extension Deck Weldment	1
12	50038	Screw HHCS M12-1.50 × 25	2
13	53148	WSHR M12 Spring Washer	2
14	50003	WSHR M12 Standard Flat Washer	2
15	REF	Platform Locking Device Assembly (Refer To page 125)	1
16	43618	Circlips	2
17	41131	Bearing	2
18	46209	Roller	2
19	41360	Roller Bracket	2
20	53280	Screw CSCS M08-1.25 × 55	8
21	41284	Slide Pad	2
22	53269	Screw CSCS M05-0.80 × 16	8
23	41120	Bumper	2
24	53224	Screw THMS M05-0.80 × 12	2

REF - Reference

Platform Locking Device Assembly

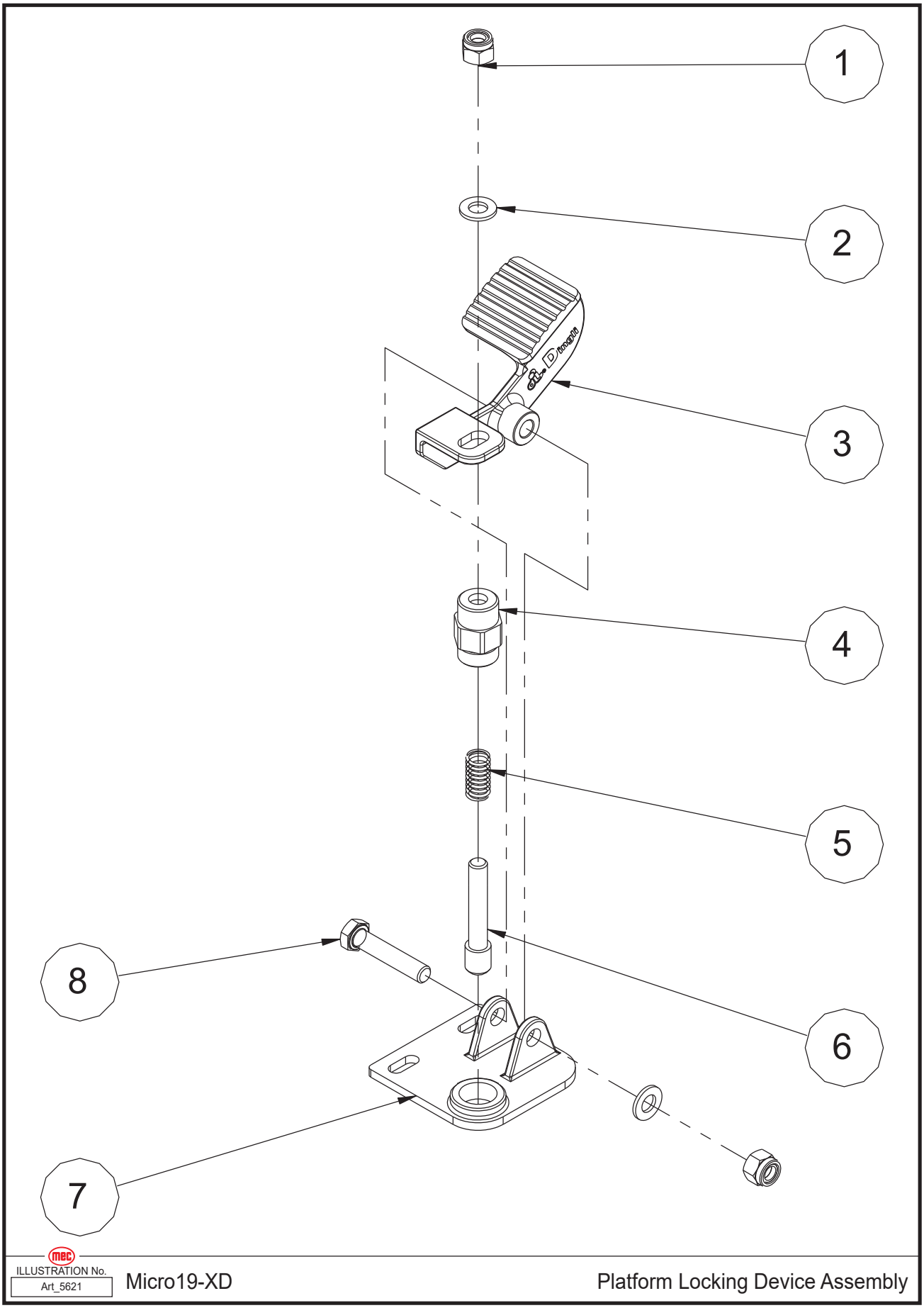


ILLUSTRATION No. Art_5621

Micro19-XD

Platform Locking Device Assembly

Item	Part Number	Description	Qty.
--	44599	Platform Locking Device Assembly	--
1	50049	Nut NNYL M10 × 1.50	2
2	50002	WSHR M10 Standard Flat Washer	2
3	41143	Foot Pedal	1
4	41144	Lock Pin Housing	1
5	41145	Spring	1
6	41146	Lock Pin	1
7	44767	Bracket	1
8	50020	Screw HHCS M10-1.50 × 50	1

Platform Control Assembly

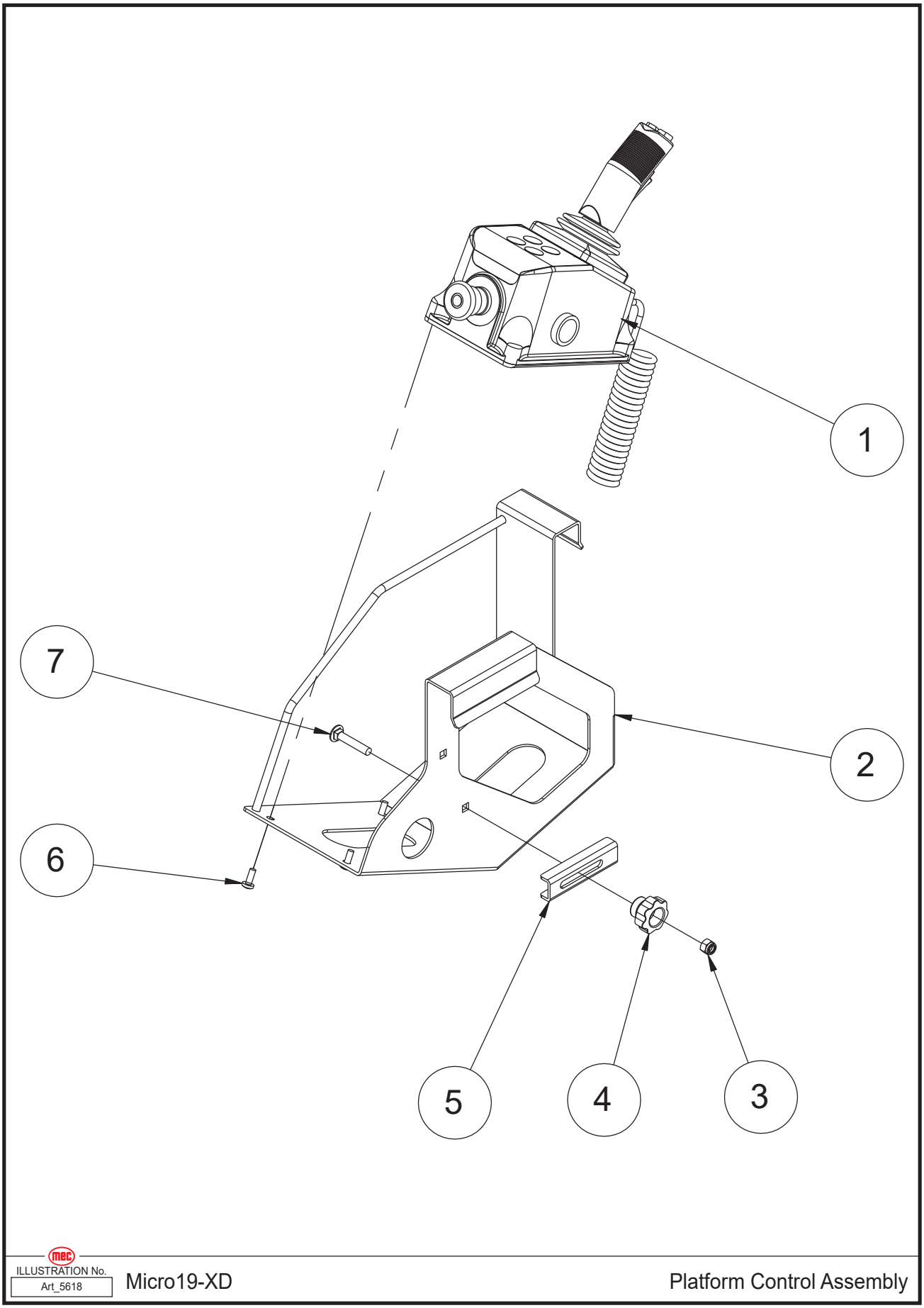


ILLUSTRATION No. Art_5618 Micro19-XD Platform Control Assembly

Item	Part Number	Description	Qty.
1	41137	Platform Control Box Assembly (Refer To page 129)	1
2	41764	Platform Control Box Mount Bracket	1
3	50048	Nut NNYL M08 × 1.25	1
4	42501	Handle	1
5	42500	Locating Plate	1
6	53231	Screw PHMS M06-1.00 × 16	4
7	53248	Screw CARB M08-1.25 × 45	1

REF - Reference

Platform Control Box Assembly

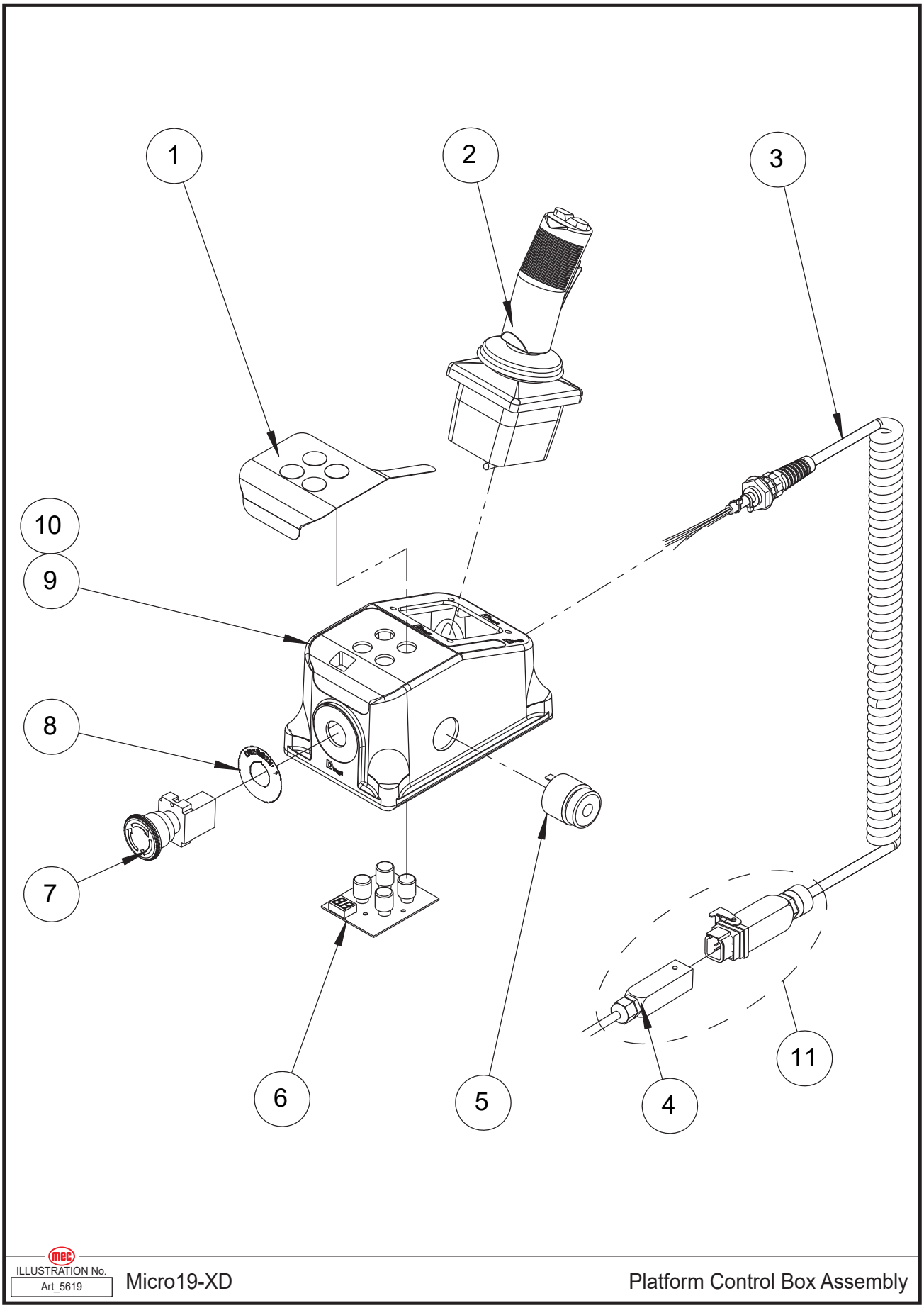


ILLUSTRATION No. Art_5619 Micro19-XD Platform Control Box Assembly

Item	Part Number	Description	Qty.
--	41137	Platform Control Box Assembly	1
1	44038	Decal, Platform Control Panel	1
2	41149	Joystick	1
--	43621	Function Enable Switch	1
--	41150	Joystick Cover	1
--	43622	Joystick Steer Switch	1
--	43623	Switch Boot	1
3	41152	Coil Cord	1
--	43624	Housing	1
--	43625	Male Insert	1
--	43626	Male Contacts	5
--	43627	Cable Gland	1
4	41861	Platform Control Box Harness (1930SE)	1
	41876	Platform Control Box Harness (2632SE)	1
	41877	Platform Control Box Harness (3346SE)	1
	41886	Platform Control Box Harness (4046SE)	1
	41887	Platform Control Box Harness (4555SE)	1
--	43628	Hood	1
--	43629	Female Insert	1
--	43630	Female Contacts	5
--	43627	Cable Gland	2
5	41568	Alarm	1
--	43631	Alarm Nut	1
6	41156	Main Board	1
--	41155	Button	4
7	41157	Emergency Stop Switch	1
--	43632	Red Mushroom Head	1
--	43633	Base With 1 NO Contact	1
8	42915	Decal, Emergency Stop Panel	1
9	43634	Enclosure	1
10	43635	Cover Bottom	1
11	41271	Connector Kit	1

Lift Cylinder Assembly - 1930SE Only

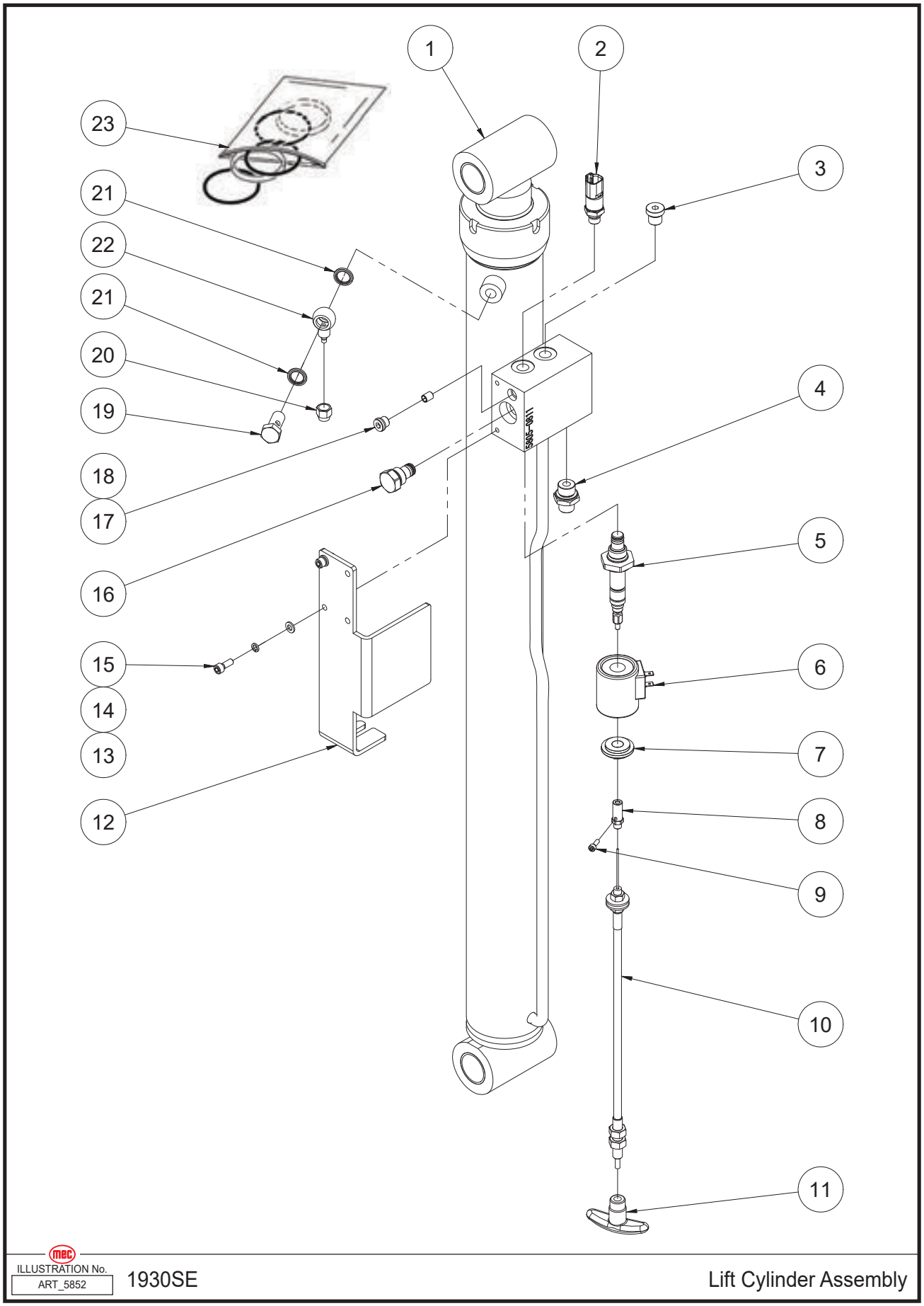


ILLUSTRATION No. ART_5852 1930SE Lift Cylinder Assembly

Item	Part Number	Description	Qty.
1	44913	Lift Cylinder	1
2	44448	Pressure Sensor	1
3	42480	Plug	1
4	43638	Straight Fitting	1
5	41363	Solenoid Valve Spool	1
6	41550	Coil	1
7	43364	Nut	1
8	43365	Cable Connector	1
9	50423	Screw SHCS M04-0.70 × 12	1
10	41832	Emergency Down Cable Assembly	1
11	41162	Lowering Knob	1
12	44914	Valve Cover	1
13	50000	WSHR M06 Standard Flat Washer	2
14	53046	WSHR M06 Spring Washer	2
15	53138	Screw SHCS M06-1.00 × 16	2
16	43369	Check Valve	1
17	42821	Plug	1
18	43637	Orifice	1
19	41166	Fitting	1
20	41413	Nut	1
21	43361	Washer	2
22	41167	Fitting	1
23	41173	Seal Kit	1

Lower Lift Cylinder Assembly - 2632SE, 3346SE, 4046SE, 4555SE

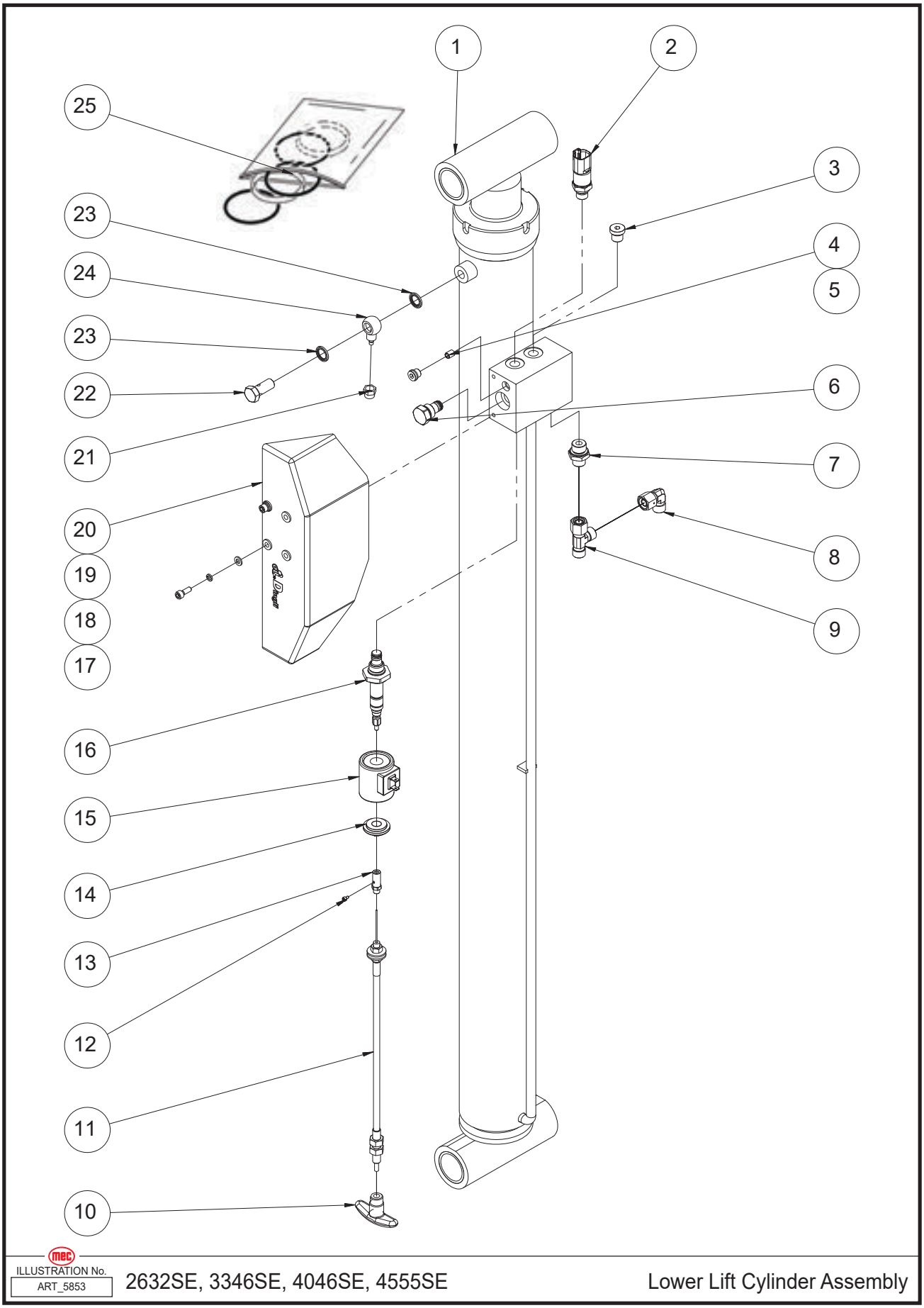


ILLUSTRATION No. ART_5853 2632SE, 3346SE, 4046SE, 4555SE Lower Lift Cylinder Assembly

Item	Part Number	Description	Qty.
1	41488	Lower Lift Cylinder (2632SE, 3346SE, 4046SE)	1
	42580	Lower Lift Cylinder (4555SE)	1
2	44448	Pressure Sensor	1
3	42480	Plug	1
4	43370	Orifice	1
5	42821	Plug	1
6	43369	Check Valve	1
7	43638	Straight Fitting	1
8	43639	Elbow (3346SE, 4046SE, 4555SE)	1
9	43640	Tee Fitting (3346SE, 4046SE, 4555SE)	1
10	41162	Lowering Knob	1
11	41833	Emergency Down Cable Assembly (2632SE, 3346SE, 4046SE)	1
	44988	Emergency Down Cable Assembly (4555SE)	1
12	50423	Screw SHCS M04-0.70 × 12	1
13	43365	Cable Connector	1
14	43364	Nut	1
15	41550	Coil	1
16	41363	Solenoid Valve Spool	1
17	53138	Screw SHCS M06-1.00 × 16	2
18	53046	WSHR M06 Spring Washer	2
19	50000	WSHR M06 Standard Flat Washer	2
20	41164	Valve Cover	1
21	41413	Nut	1
22	41166	Fitting	1
23	43361	Washer	2
24	41167	Fitting	1
25	41168	Seal Kit (2632SE, 3346SE, 4046SE)	1
	44989	Seal Kit (4555SE)	1

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

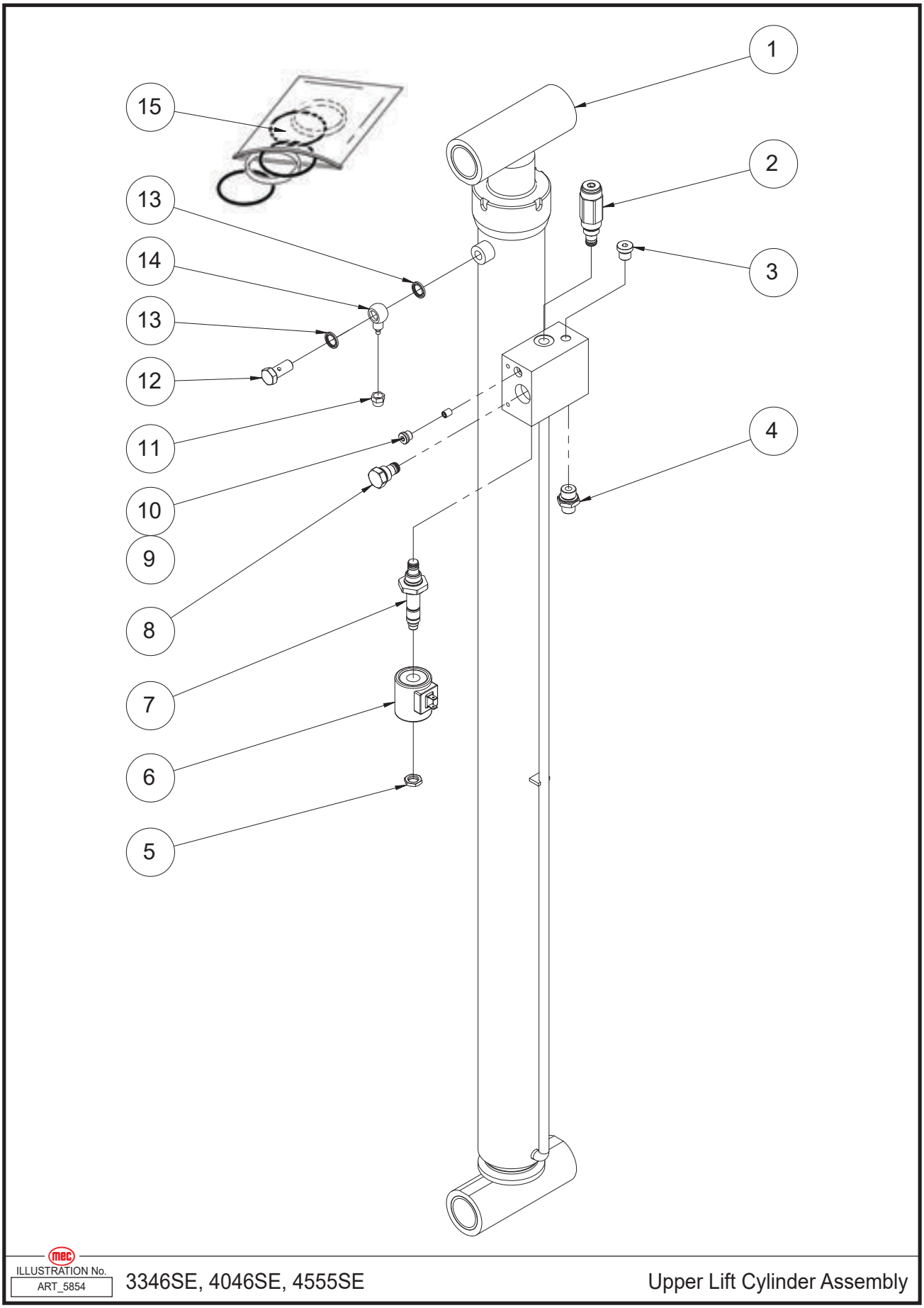


ILLUSTRATION No. ART_5854 | 3346SE, 4046SE, 4555SE | Upper Lift Cylinder Assembly

Item	Part Number	Description	Qty.
1	41505	Upper Lift Cylinder (3346SE, 4046SE)	1
	42579	Upper Lift Cylinder (4555SE)	1
2	41169	Relief Valve	1
3	42480	Plug	1
4	43638	Straight Fitting	1
5	42795	Nut	1
6	41551	Coil	1
7	43372	Solenoid Valve Spool	1
8	43369	Check Valve	1
9	43645	Orifice (3346SE, 4046SE)	1
	44017	Orifice (4555SE)	1
10	42821	Plug	1
11	41413	Nut	1
12	41166	Fitting	1
13	43361	Washer	2
14	41167	Fitting	1
15	41173	Seal Kit	1

Function Manifold

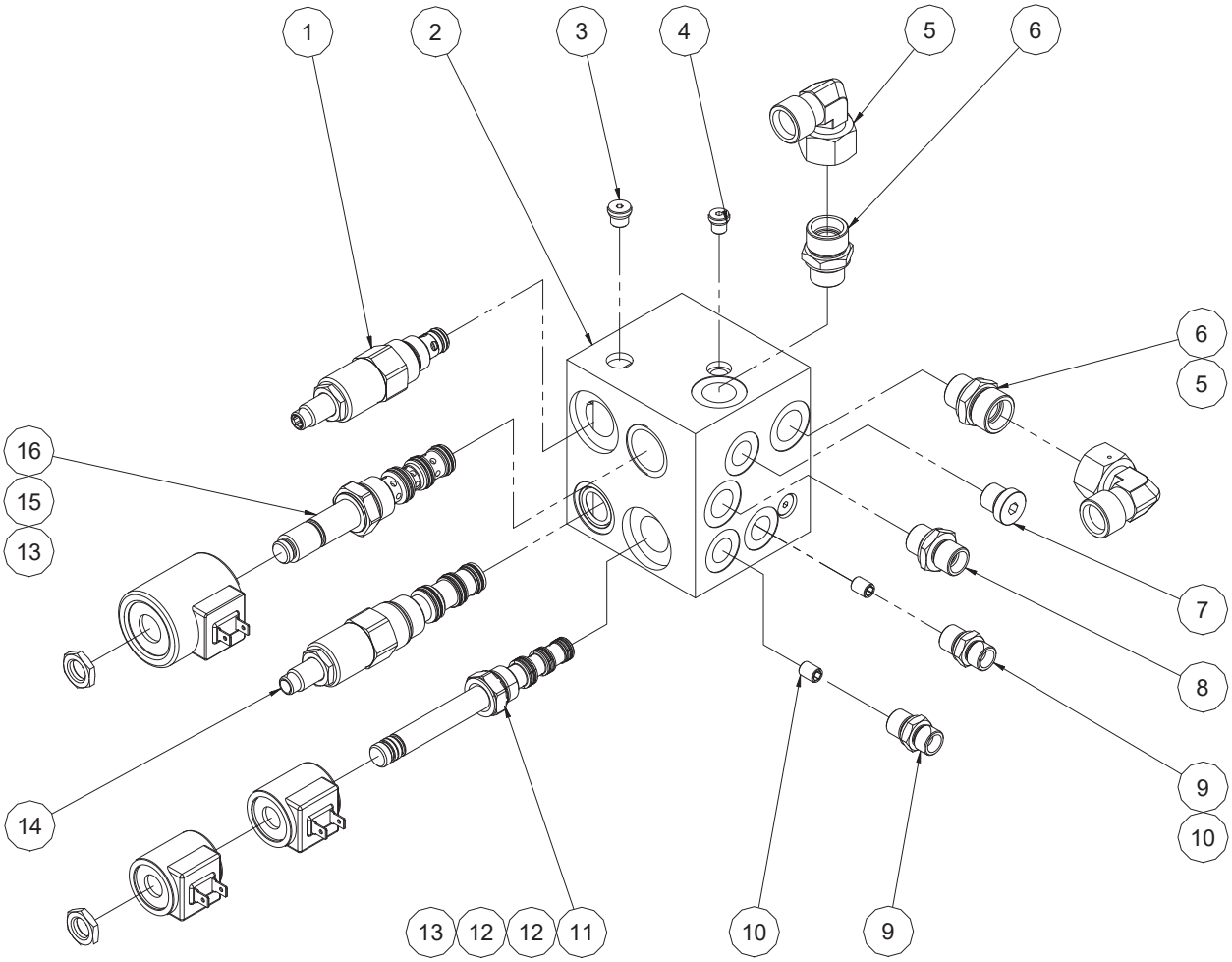


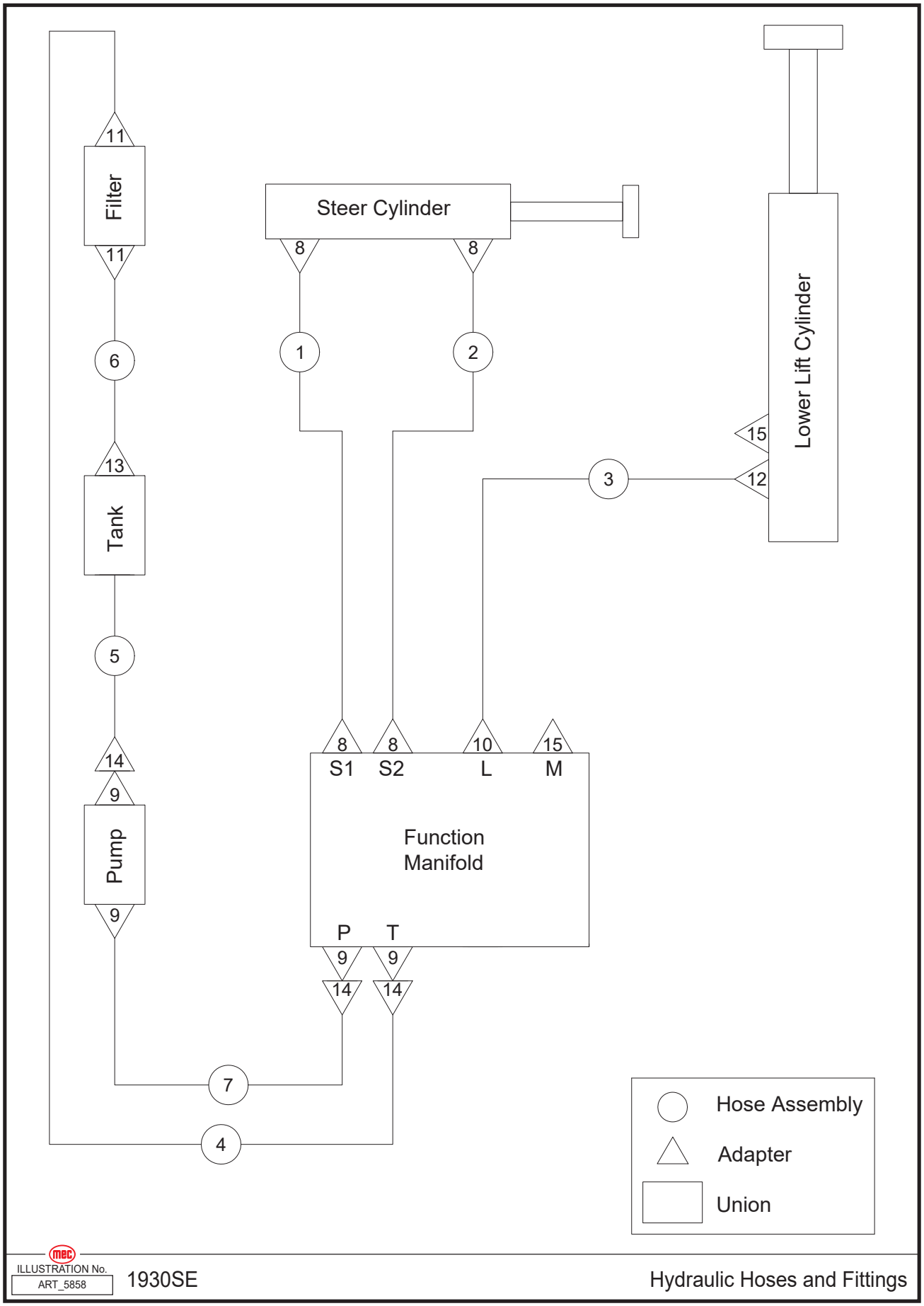
ILLUSTRATION No. ART_5855

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

Function Manifold

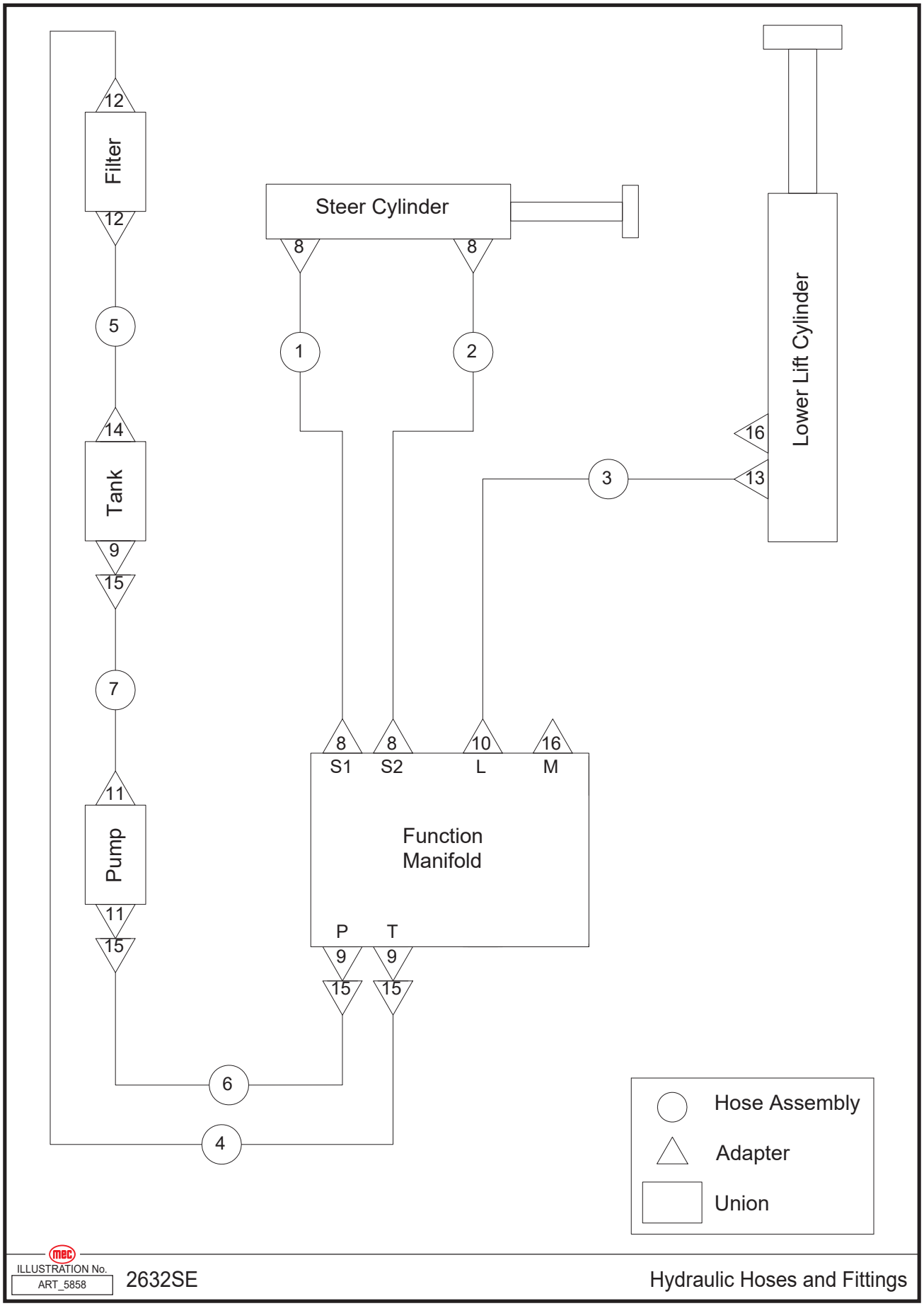
Item	Part Number	Description	Qty.
1	41549	Relief Valve	1
2	41547	Valve Body	1
3	43643	Plug	3
4	43465	Plug	9
5	43206	Elbow	2
6	43582	Straight Fitting	2
7	42480	Plug	1
8	43644	Straight Fitting	1
9	43076	Straight Fitting	2
10	43645	Orifice	2
11	41537	Solenoid Valve Spool	1
12	41551	Coil	2
13	42795	Nut	2
14	41538	Steer Priority Flow Control Valve	1
15	41550	Coil	1
16	41548	Solenoid Valve Spool	1

Hydraulic Hoses and Fittings - 1930SE



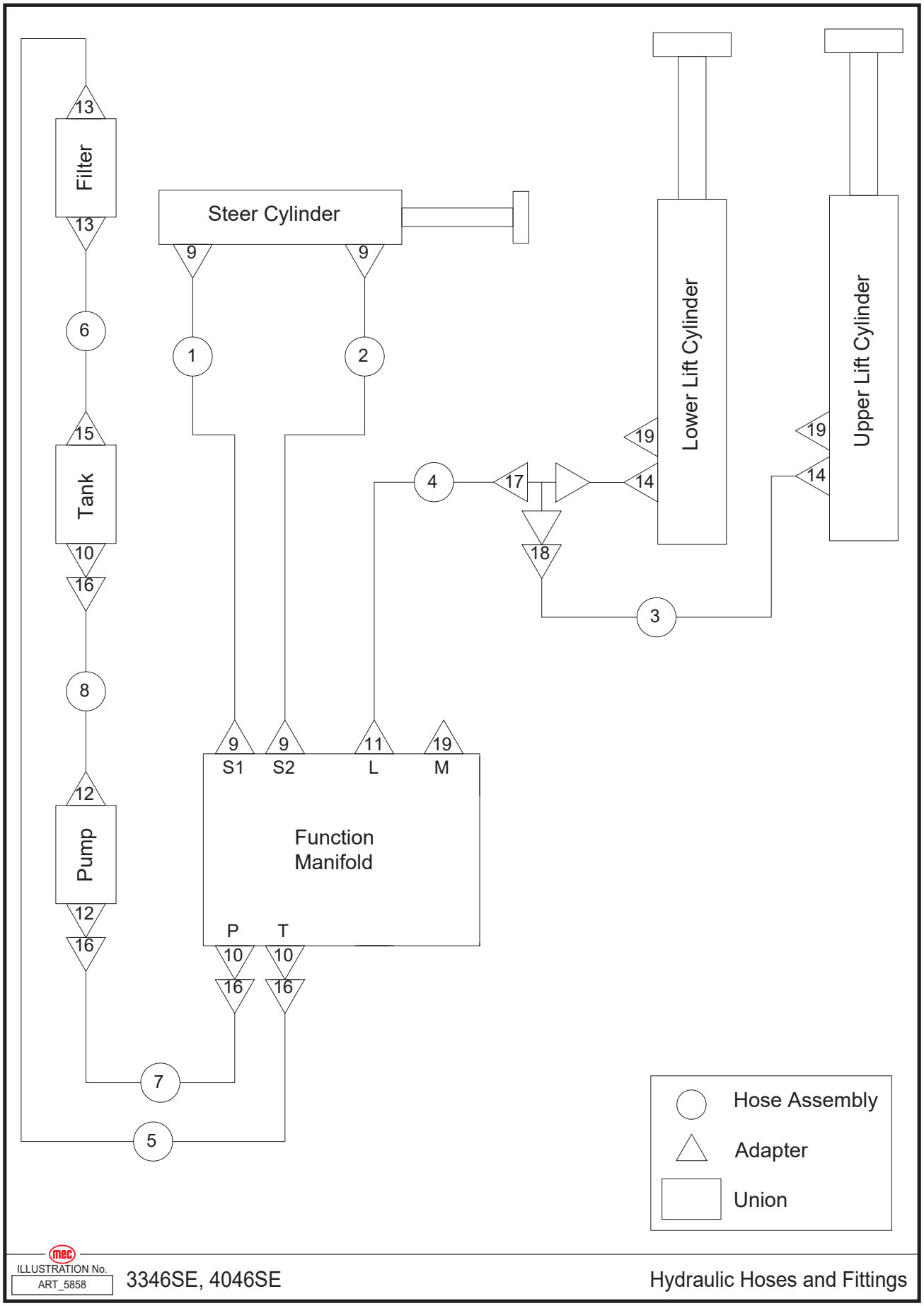
Item	Part Number	Description	Qty.
1	41838	Hose Assembly	1
2	41839	Hose Assembly	1
3	44915	Hose Assembly	1
4	44916	Hose Assembly	1
5	44917	Hose Assembly	1
6	41841	Hose Assembly	1
7	44918	Hose Assembly	1
8	43076	Straight Fitting	4
9	43582	Straight Fitting	4
10	43644	Straight Fitting	1
11	43576	Straight Fitting	2
12	43638	Straight Fitting	1
13	41085	Fitting	1
14	43206	Elbow	3
15	42480	Plug	2

Hydraulic Hoses and Fittings - 2632SE



Item	Part Number	Description	Qty.
1	41539	Hose Assembly	1
2	41541	Hose Assembly	1
3	41543	Hose Assembly	1
4	44990	Hose Assembly	1
5	41178	Hose Assembly	1
6	41179	Hose Assembly	1
7	41180	Hose Assembly	1
8	43076	Straight Fitting	4
9	43582	Straight Fitting	3
10	43644	Straight Fitting	1
11	43205	Straight Fitting	2
12	43576	Straight Fitting	2
13	43638	Straight Fitting	1
14	41085	Fitting	1
15	43206	Elbow	4
16	42480	Plug	2

Hydraulic Hoses and Fittings - 3346SE, 4046SE



Item	Part Number	Description	Qty.
1	41540	Hose Assembly	1
2	41542	Hose Assembly	1
3	41545	Hose Assembly	1
4	41543	Hose Assembly	1
5	44990	Hose Assembly	1
6	41178	Hose Assembly	1
7	41179	Hose Assembly	1
8	41180	Hose Assembly	1
9	43076	Straight Fitting	4
10	43582	Straight Fitting	3
11	43644	Straight Fitting	1
12	43205	Straight Fitting	2
13	43576	Straight Fitting	2
14	43638	Straight Fitting	2
15	41085	Fitting	1
16	43206	Elbow	4
17	43639	Elbow	1
18	43640	Tee Fitting	1
19	42480	Plug	3

Hydraulic Hoses and Fittings - 4555SE

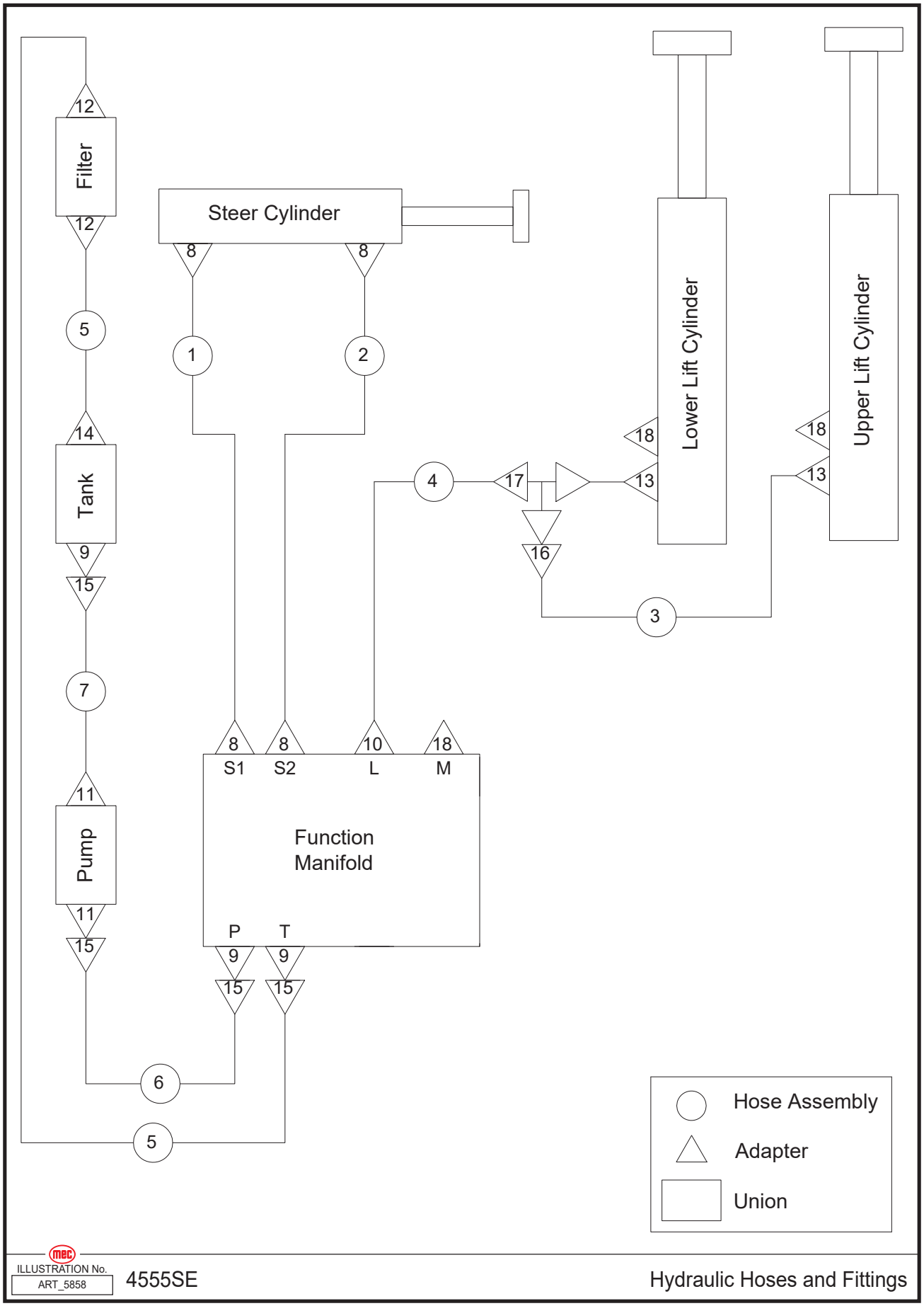
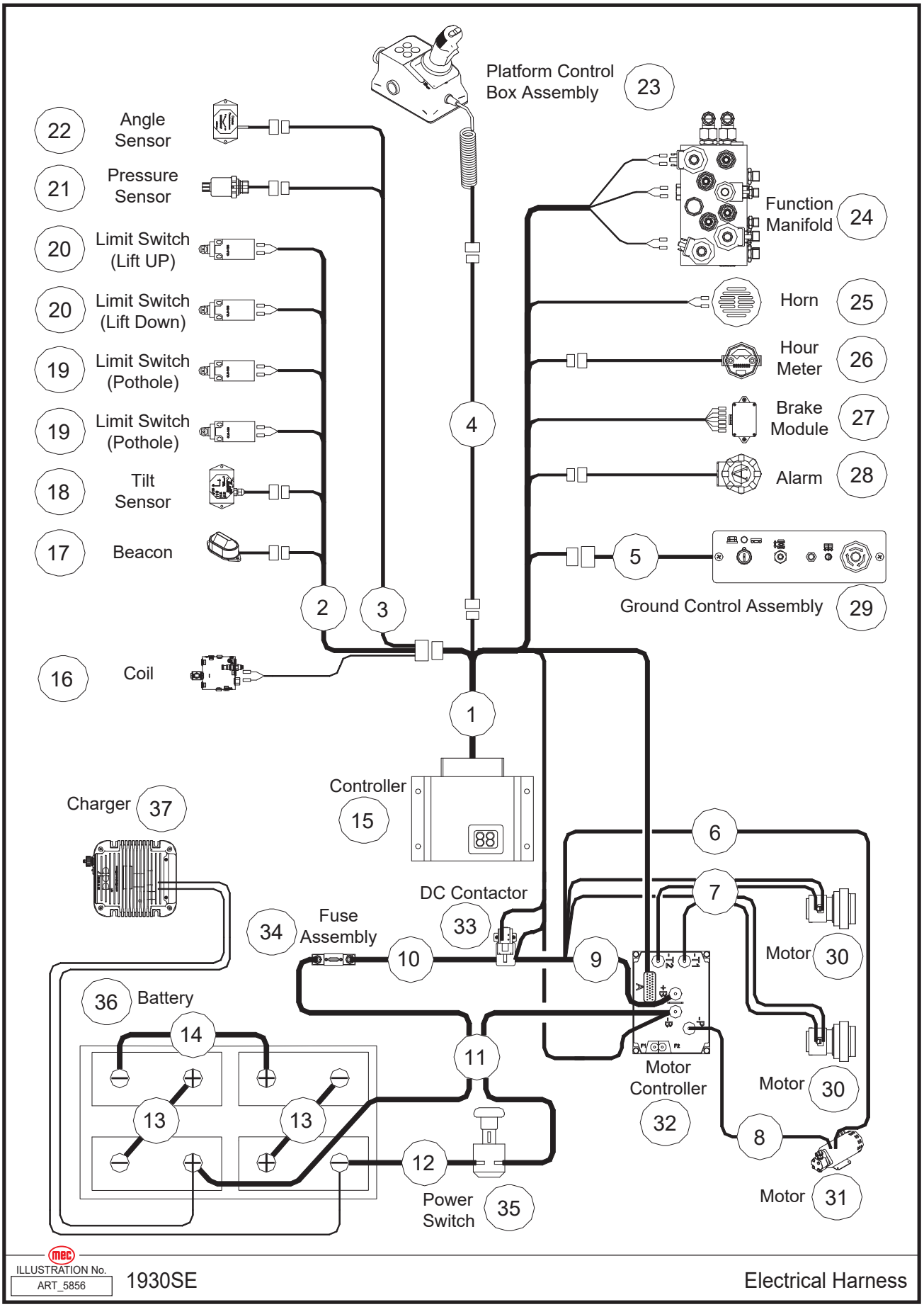


ILLUSTRATION No. ART_5858 4555SE Hydraulic Hoses and Fittings

Item	Part Number	Description	Qty.
1	44991	Hose Assembly	1
2	44455	Hose Assembly	1
3	44992	Hose Assembly	1
4	44993	Hose Assembly	1
5	41178	Hose Assembly	2
6	41179	Hose Assembly	1
7	41180	Hose Assembly	1
8	43076	Straight Fitting	4
9	43582	Straight Fitting	3
10	43644	Straight Fitting	1
11	43205	Straight Fitting	2
12	43576	Straight Fitting	2
13	43638	Straight Fitting	2
14	41085	Fitting	1
15	43206	Elbow	4
16	43639	Elbow	1
17	43640	Tee Fitting	1
18	42480	Plug	3

Electrical Harness - 1930SE



Item	Part Number	Description	Qty.
1	43713	ECU Harness	1
2	43646	Limit Switch Harness	1
3	44919	Angle & Pressure Sensor Harness	1
4	41861	Platform Control Box Harness	1
5	41863	Ground Control Panel Harness	1
6	43715	Pump Motor Positive Harness	1
7	43716	Drive Motor Harness	1
8	43717	Pump Motor Negative Harness	1
9	41855	Motor Controller Harness	1
10	44920	DC Contactor Harness	1
11	41857	Battery Positive Harness	1
12	41860	Battery Negative Harness	1
13	41858	Battery Harness 1	2
14	41859	Battery Harness 2	1
15	44333	Controller	1
16	41550	Coil	1
17	41310	Beacon	1
18	41098	Tilt Sensor	1
19	41036	Limit Switch, Pothole	2
20	41036	Limit Switch, Lift Up/Lift Down	2
21	44448	Pressure Sensor (Option)	1
22	41110	Angle Sensor	1
23	41137	Platform Control Box Assembly	1
24	REF	Function Manifold (Refer To page 137)	1
25	41075	Horn	1
26	41070	Hour Meter	1
27	41094	Brake Module	1
28	41074	Alarm	1
29	REF	Ground Control Assembly (Refer To page 89)	1
30	43559	Motor	2
31	41820	Motor	1
32	41093	Motor Controller	1
33	41331	DC Contactor	1
34	41827	250A Fuse	1
35	41607	Power Switch	1
36	44893	Battery	4
37	42903	Charger	1

REF - Reference

Electrical Harness - 2632SE

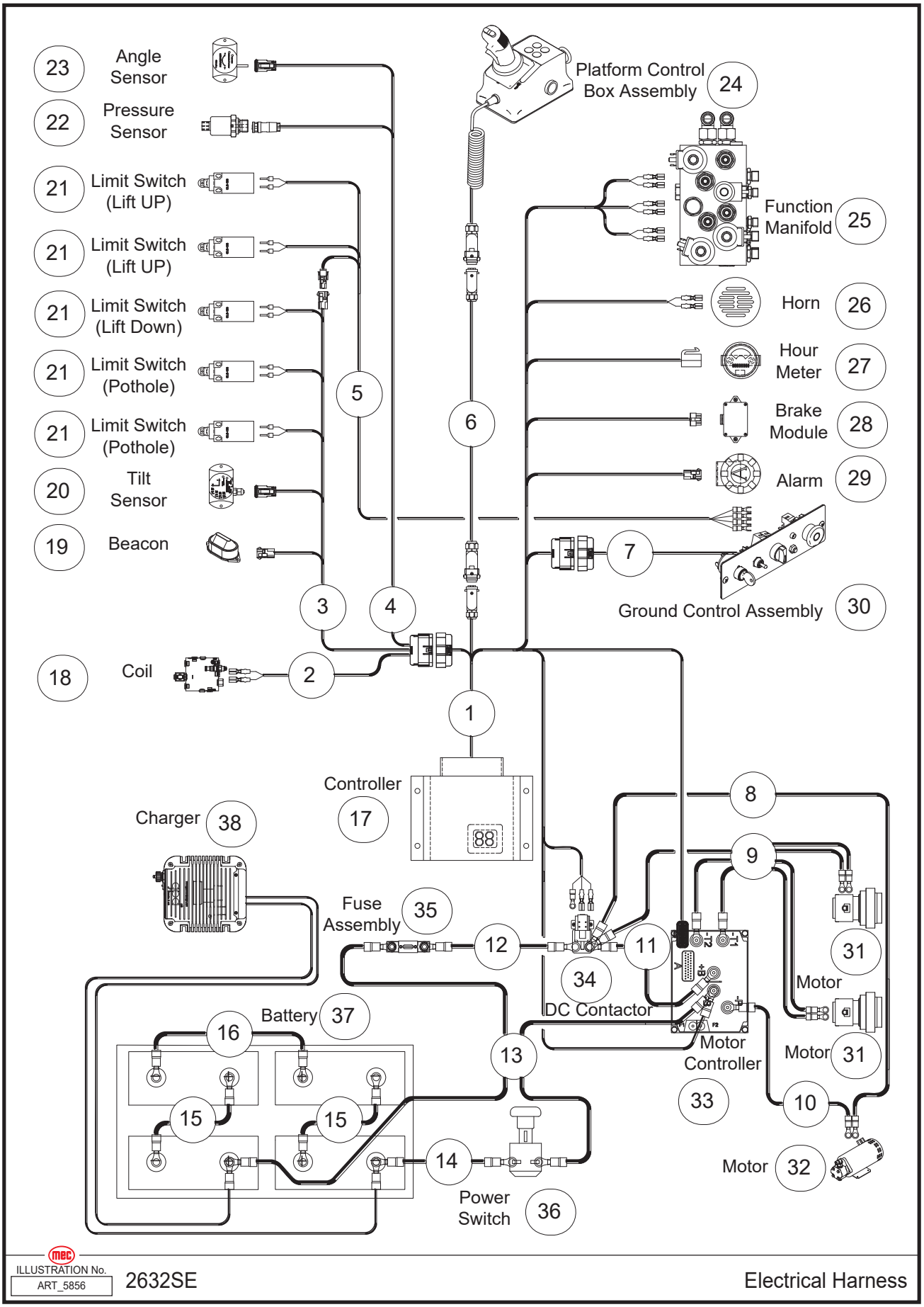
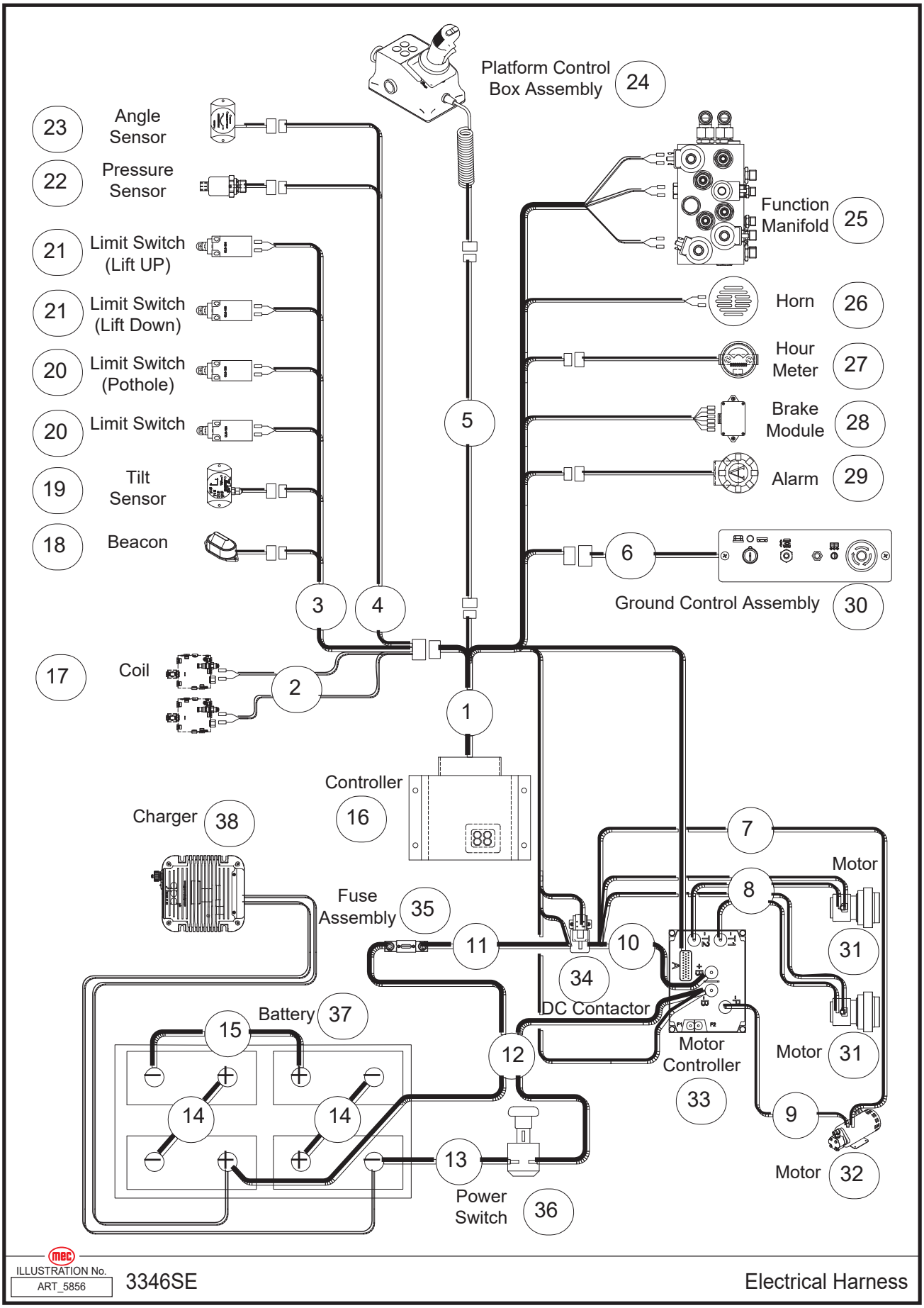


ILLUSTRATION No. ART_5856 2632SE Electrical Harness

Item	Part Number	Description	Qty.
1	41864	ECU Harness	1
2	44994	Lowering Valve Harness	1
3	41878	Limit Switch Harness	1
4	44995	Angle & Pressure Sensor Harness	1
5	44068	Indoor/Outdoor Selective Harness	1
6	41876	Platform Control Box Harness	1
7	41863	Ground Control Panel Harness	1
8	44996	Pump Motor Positive Harness	1
9	41865	Drive Motor Harness	1
10	41867	Pump Motor Negative Harness	1
11	41868	Motor Controller Harness	1
12	41870	DC Contactor Harness	1
13	41871	Battery Positive Harness	1
14	41875	Battery Negative Harness	1
15	41873	Battery Harness 1	2
16	41874	Battery Harness 2	1
17	REF	Controller (Refer To page 69)	1
18	REF	Coil (Refer To page 133)	1
19	REF	Beacon (Refer To page 87)	1
20	REF	Tilt Sensor (Refer To page 87)	1
21	REF	Limit Switch, Pothole, Lift Up/Down (Refer To page 61 and page 87)	5
22	REF	Pressure Sensor (Refer To page 133)	1
23	REF	Angle Sensor (Refer To page 95)	1
24	REF	Platform Control Box Assembly (Refer To page 129)	1
25	REF	Function Manifold (Refer To page 137)	1
26	REF	Horn (Refer To page 69)	1
27	REF	Hour Meter (Refer To page 69)	1
28	REF	Brake Module (Refer To page 77)	1
29	REF	Alarm (Refer To page 69)	1
30	REF	Ground Control Assembly (Refer To page 91)	1
31	REF	Motor (Refer To page 57)	2
32	REF	Motor (Refer To page 69)	1
33	REF	Motor Controller (Refer To page 77)	1
34	REF	DC Contactor (Refer To page 77)	1
35	REF	Fuse Assembly (Refer To page 77)	1
36	REF	Power Switch (Refer To page 65)	1
37	REF	Battery (Refer To page 65)	4
38	REF	Charger (Refer To page 65)	1

REF - Reference

Electrical Harness - 3346SE



Item	Part Number	Description	Qty.
1	41864	ECU Harness	1
2	44997	Lowering Valve Harness	1
3	41879	Limit Switch Harness	1
4	44995	Angle & Pressure Sensor Harness	1
5	41877	Platform Control Box Harness	1
6	41863	Ground Control Panel Harness	1
7	44996	Pump Motor Positive Harness	1
8	41866	Drive Motor Harness	1
9	41867	Pump Motor Negative Harness	1
10	41868	Motor Controller Harness	1
11	41870	DC Contactor Harness	1
12	41872	Battery Positive Harness	1
13	44998	Battery Negative Harness	1
14	41873	Battery Harness 1	2
15	41874	Battery Harness 2	1
16	REF	Controller (Refer To page 69)	1
17	REF	Coil (Refer to page 133 and page 135)	2
18	REF	Beacon (Refer To page 87)	1
19	REF	Tilt Sensor (Refer To page 87)	1
20	REF	Limit Switch, Pothole (Refer To page 61)	2
21	REF	Limit Switch, Lift Up/Down (Refer To page 87)	2
22	REF	Pressure Sensor (Refer To page 133)	1
23	REF	Angle Sensor (Refer To page 99)	1
24	REF	Platform Control Box Assembly (Refer To page 127)	1
25	REF	Function Manifold (Refer To page 137)	1
26	REF	Horn (Refer To page 69)	1
27	REF	Hour Meter (Refer To page 69)	1
28	REF	Brake Module (Refer To page 77)	1
29	REF	Alarm (Refer To page 69)	1
30	REF	Ground Control Assembly (Refer To page 91)	1
31	REF	Motor (Refer To page 57)	2
32	REF	Motor (Refer To page 69)	1
33	REF	Motor Controller (Refer To page 77)	1
34	REF	DC Contactor (Refer To page 77)	1
35	REF	Fuse Assembly (Refer To page 77)	1
36	REF	Power Switch (Refer To page 65)	1
37	REF	Battery (Refer To page 65)	4
38	REF	Charger (Refer To page 65)	1

REF - Reference

Electrical Harness - 4046SE, 4555SE

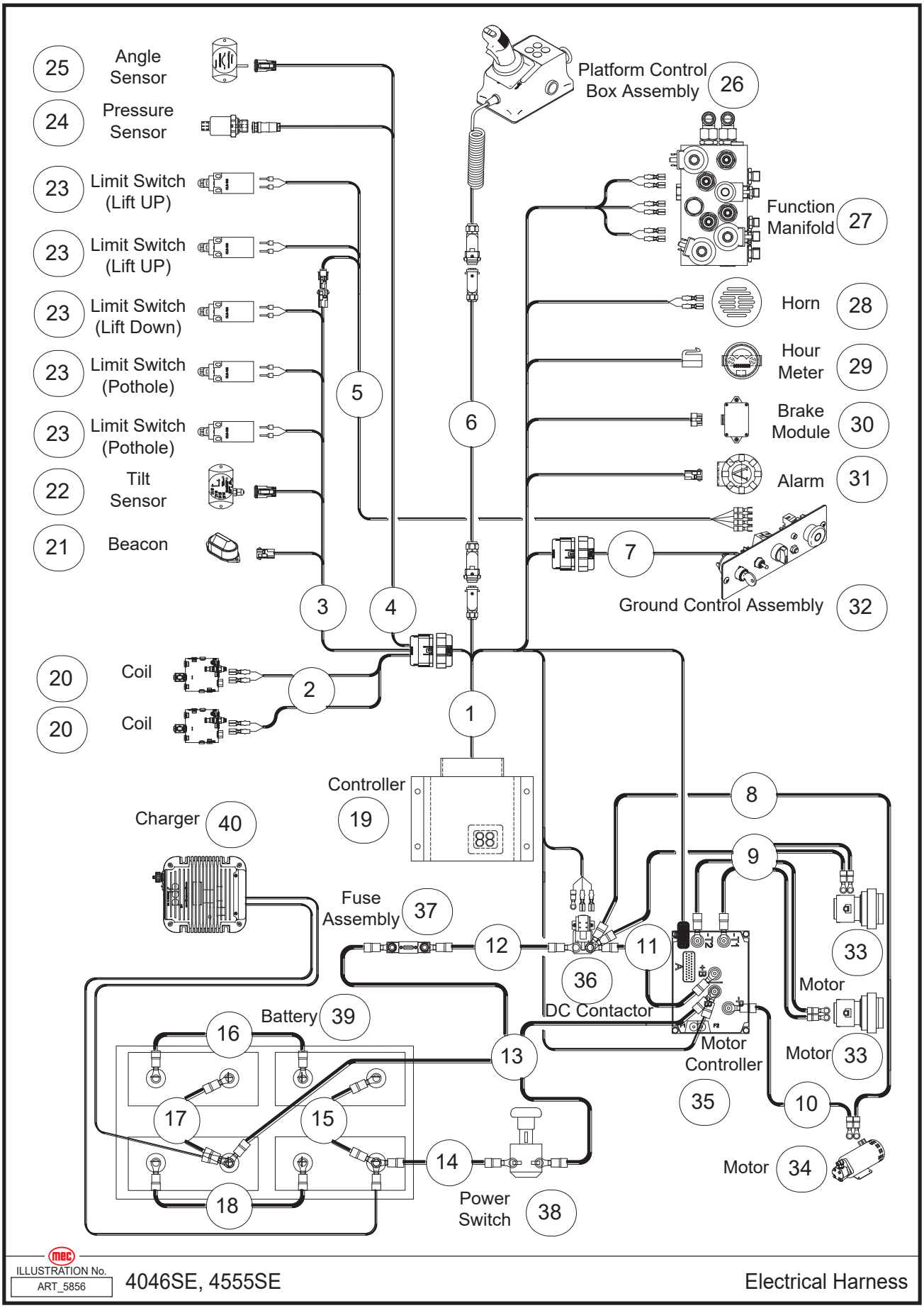


ILLUSTRATION No. ART_5856 4046SE, 4555SE Electrical Harness

Item	Part Number	Description	Qty.
1	41864	ECU Harness	1
2	44997	Lowering Valve Harness (4046SE)	1
	44999	Lowering Valve Harness (4555SE)	1
3	41879	Limit Switch Harness (4046SE)	1
	41888	Limit Switch Harness (4555SE)	1
4	44995	Angle & Pressure Sensor Harness (4046SE)	1
	47359	Harness Pressure/Angle Sensor, Round Connector for 44995	1
	46225	Angle & Pressure Sensor Harness (4555SE)	1
	47358	Harness Pressure/Angle Sensor, Round Connector for 46225	1
5	44068	Indoor/Outdoor Selective Harness	1
6	41886	Platform Control Box Harness (4046SE)	1
	41887	Platform Control Box Harness (4555SE)	1
7	41863	Ground Control Panel Harness	1
8	44996	Pump Motor Positive Harness	1
9	41866	Drive Motor Harness (4046SE)	1
	41880	Drive Motor Harness (4555SE)	1
10	41867	Pump Motor Negative Harness	1
11	41868	Motor Controller Harness	1
12	41870	DC Contactor Harness	1
13	41872	Battery Positive Harness (4046SE)	1
	41881	Battery Positive Harness (4555SE)	1
14	44998	Battery Negative Harness (4046SE)	1
	41875	Battery Negative Harness (4555SE)	1
15	41883	Battery Harness 2	1
16	41885	Battery Harness 4	1
17	41873	Battery Harness 1	1
18	41882	Battery Harness 1	1
19	REF	Controller (Refer To page 69)	1
20	REF	Coil (Refer to page 133 and page 135)	2
21	REF	Beacon (Refer To page 87)	1
22	REF	Tilt Sensor (Refer To page 87)	1
23	REF	Limit Switch, Pothole, Lift Up/Down (Refer To page 61 and page 87)	5
24	REF	Pressure Sensor (Refer To page 133)	1
25	REF	Angle Sensor (Refer To page 103 and page 107)	1
26	REF	Platform Control Box Assembly (Refer To page 127)	1
27	REF	Function Manifold (Refer To page 137)	1
28	REF	Horn (Refer To page 69)	1
29	REF	Hour Meter (Refer To page 69)	1
30	REF	Brake Module (Refer To page 77)	1
31	REF	Alarm (Refer To page 69)	1
32	REF	Ground Control Assembly (Refer To page 91)	1
33	REF	Motor (Refer To page 57)	2
34	REF	Motor (Refer To page 69)	1
35	REF	Motor Controller (Refer To page 77)	1
36	REF	DC Contactor (Refer To page 77)	1

37	REF	Fuse Assembly (Refer To page 77)	1
38	REF	Power Switch (Refer To page 65)	1
39	REF	Battery (Refer To page 65)	4
40	REF	Charger (Refer To page 65)	1

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Power to Platform - 1930SE

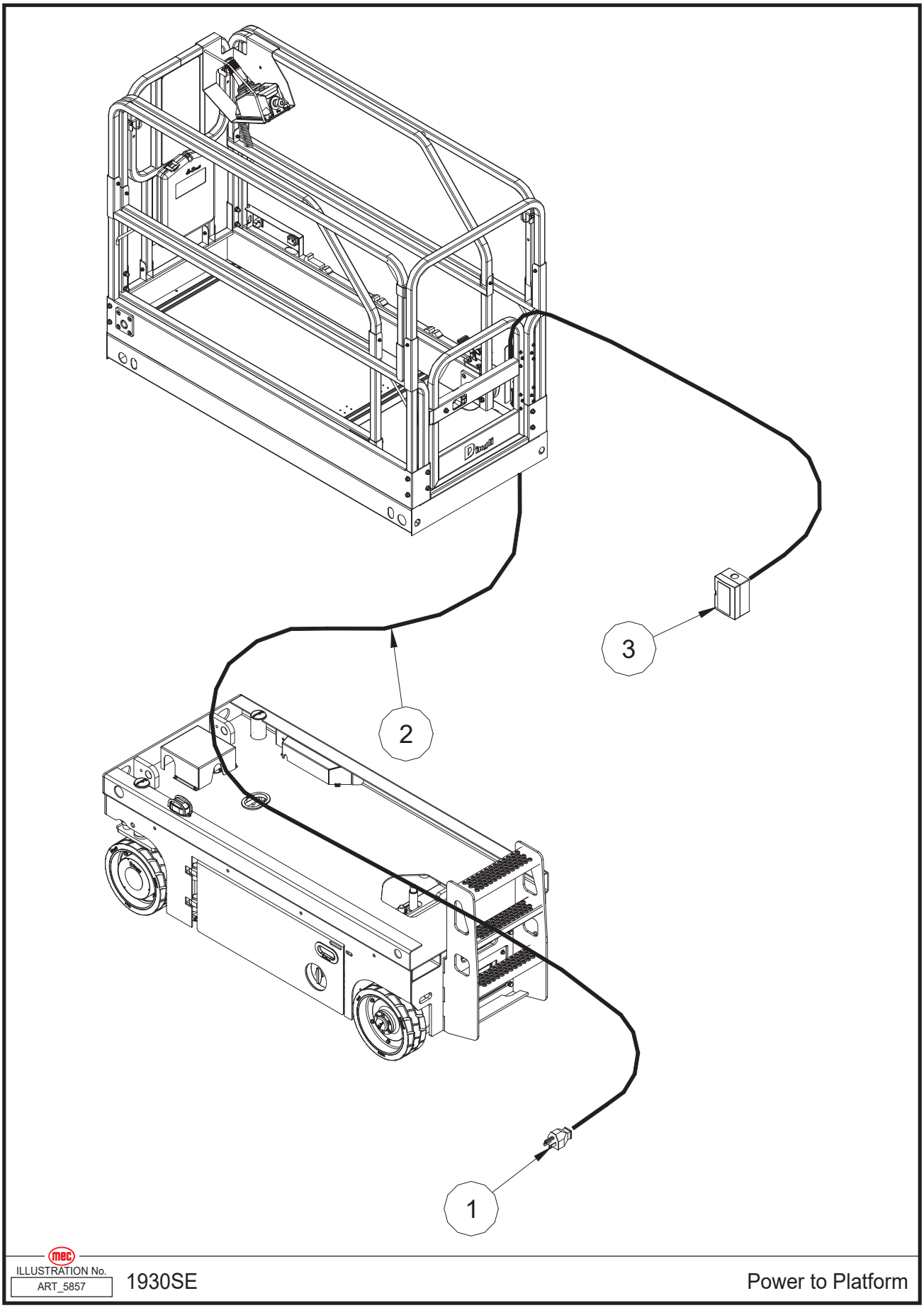


ILLUSTRATION No. ART_5857 1930SE Power to Platform

Item	Part Number	Description	Qty.
1	43690	AC Plug, 110V	1
2	46230	Wire Cable, Platform AC Power	1
3	43694	AC Socket	1

Power to Platform - 2632SE, 3346SE, 4046SE, 4555SE

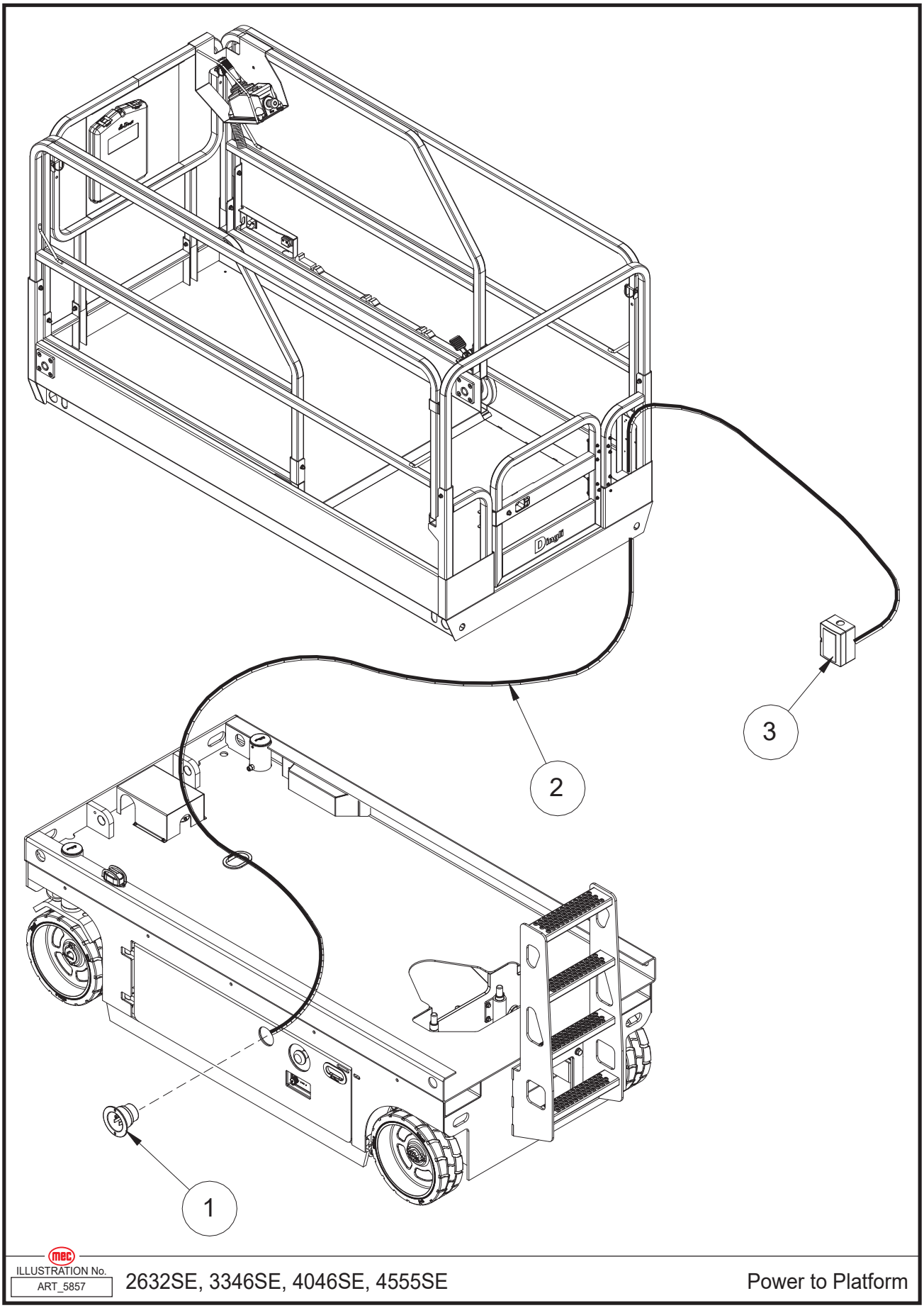


ILLUSTRATION No. ART_5857

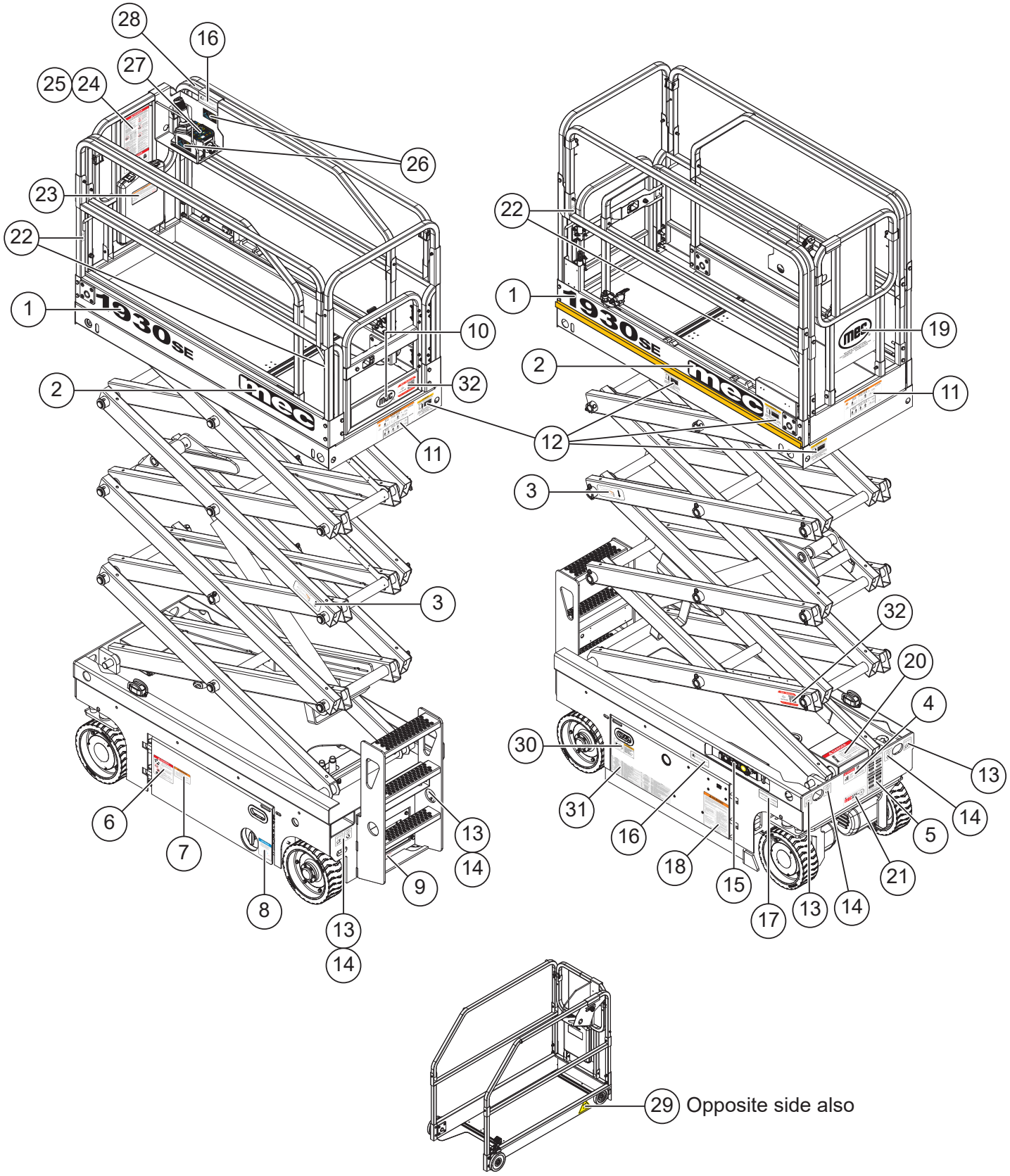
2632SE, 3346SE, 4046SE, 4555SE

Power to Platform

Item	Part Number	Description	Qty.
1	REF	AC Plug (Refer To page 65)	1
2	46226	Wire Cable, Platform AC Power (2632SE)	1
	46227	Wire Cable, Platform AC Power (3346SE)	1
	46228	Wire Cable, Platform AC Power (4046SE)	1
	46229	Wire Cable, Platform AC Power (4555SE)	1
3	42613	AC Socket	1

REF - Reference

Decals - 1930SE



1

1930SE

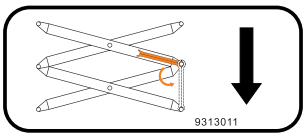
94255 Qty. - 2

2

mec

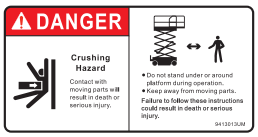
94114 Qty. - 2

3



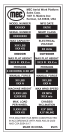
41638 Qty. - 2

4



41646 Qty. - 1

5



95215 Qty. - 1

6



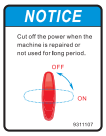
41641 Qty. - 1

7



41905 Qty. - 1

8



41666 Qty. - 1

9

BATTERY CHARGER AND POWER TO PLATFORM

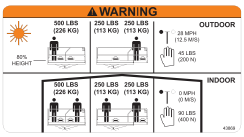
94659 Qty. - 1

10

mec

94115 Qty. - 1

11



43869 Qty. - 2

12



95225 Qty. - 4

13



41635 Qty. - 4

14



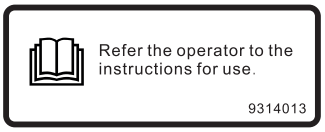
41634 Qty. - 4

15



46231 Qty. - 1

16



41639 Qty. - 2

17



41636 Qty. - 1

18



41649 Qty. - 1

19



90719 Qty. - 1

20



41642 Qty. - 1

21



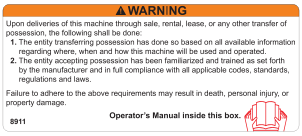
94423 Qty. - 1

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



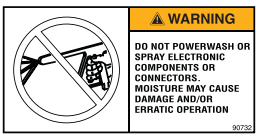
41640 Qty. - 1

29



91850 Qty. - 2

30



90732 Qty. - 1

31



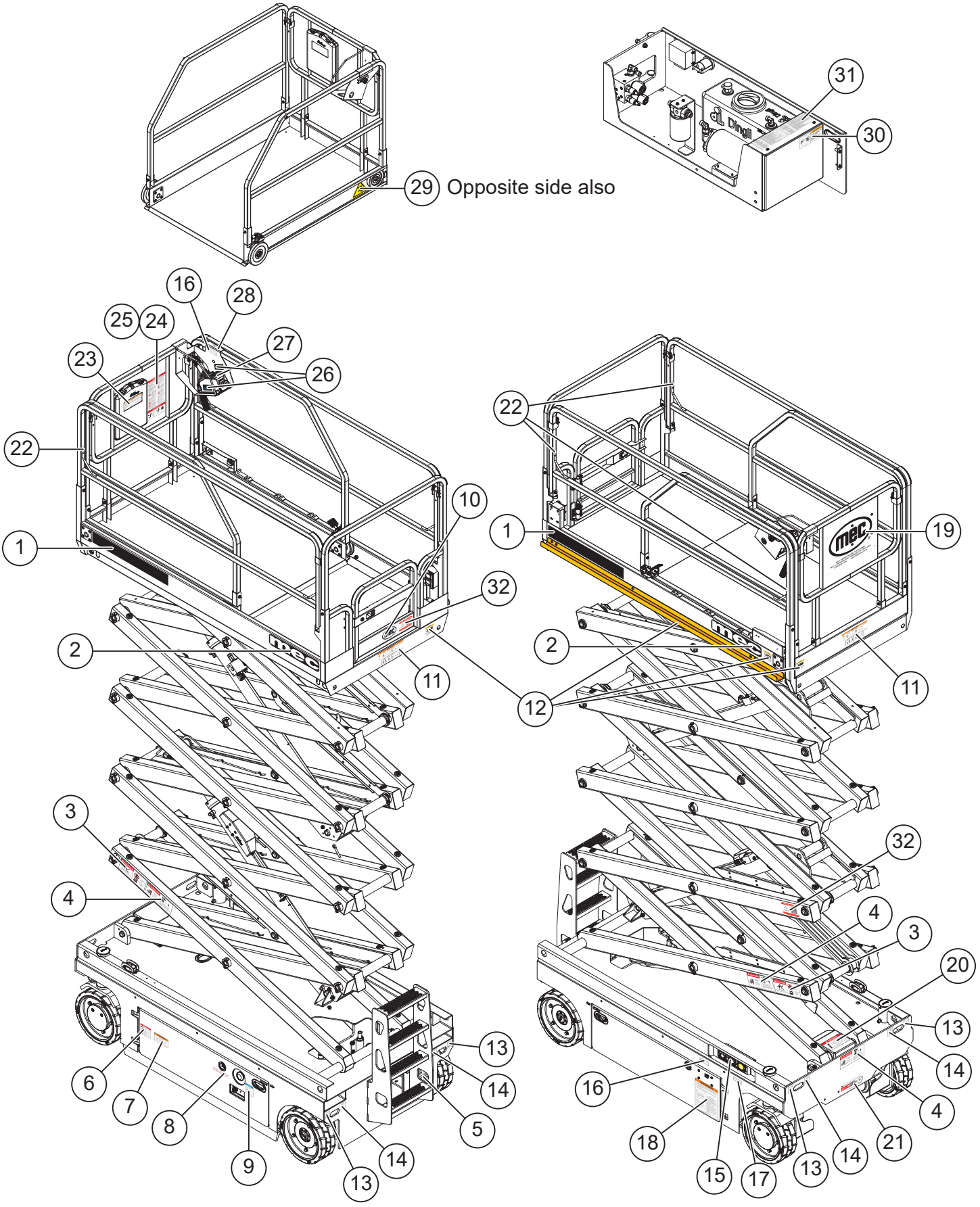
43879 Qty. - 1

32



95256 Qty. - 2

Decals - 2632SE, 3346SE



1
2632SE ONLY
2632SE
94256 Qty. - 2

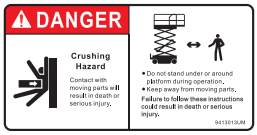
3346SE ONLY
3346SE
94257 Qty. - 2

2

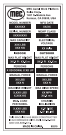
94114 Qty. - 2

3


41748 Qty. - 2

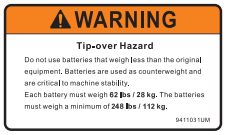
4


41646 Qty. - 3

5

95215 Qty. - 1

6


41641 Qty. - 1

7 2632SE ONLY


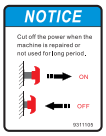
42293 Qty. - 1

3346SE ONLY


41583 Qty. - 1

8

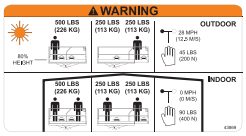

94659 Qty. - 1

9


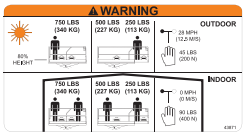
41637 Qty. - 1

10

94115 Qty. - 1

11 2632SE ONLY


43869 Qty. - 2

3346SE ONLY


43871 Qty. - 2

12 2632SE ONLY


95225 Qty. - 4

3346SE ONLY


95226 Qty. - 4

13

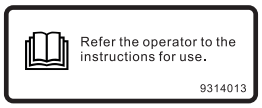

41635 Qty. - 4

14


41634 Qty. - 4

15


95364 Qty. - 1

16


41639 Qty. - 2

17

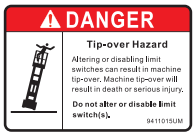

41636 Qty. - 1

18


41649 Qty. - 1

19


90719 Qty. - 1

20


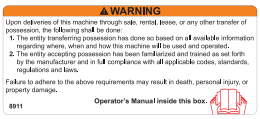
41642 Qty. - 1

21
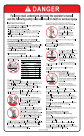

94423 Qty. - 1

22

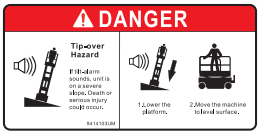

41648 Qty. - 4

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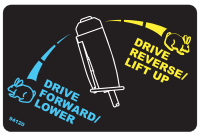
8911 Qty. - 1

24


41652 Qty. - 1

25


41647 Qty. - 1

26


94120 Qty. - 2

27

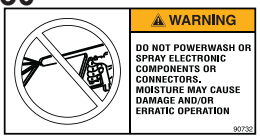
41632 Qty. - 1

28
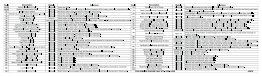

41640 Qty. - 1

29

91850 Qty. - 2

30


90732 Qty. - 1

31

43879 Qty. - 1

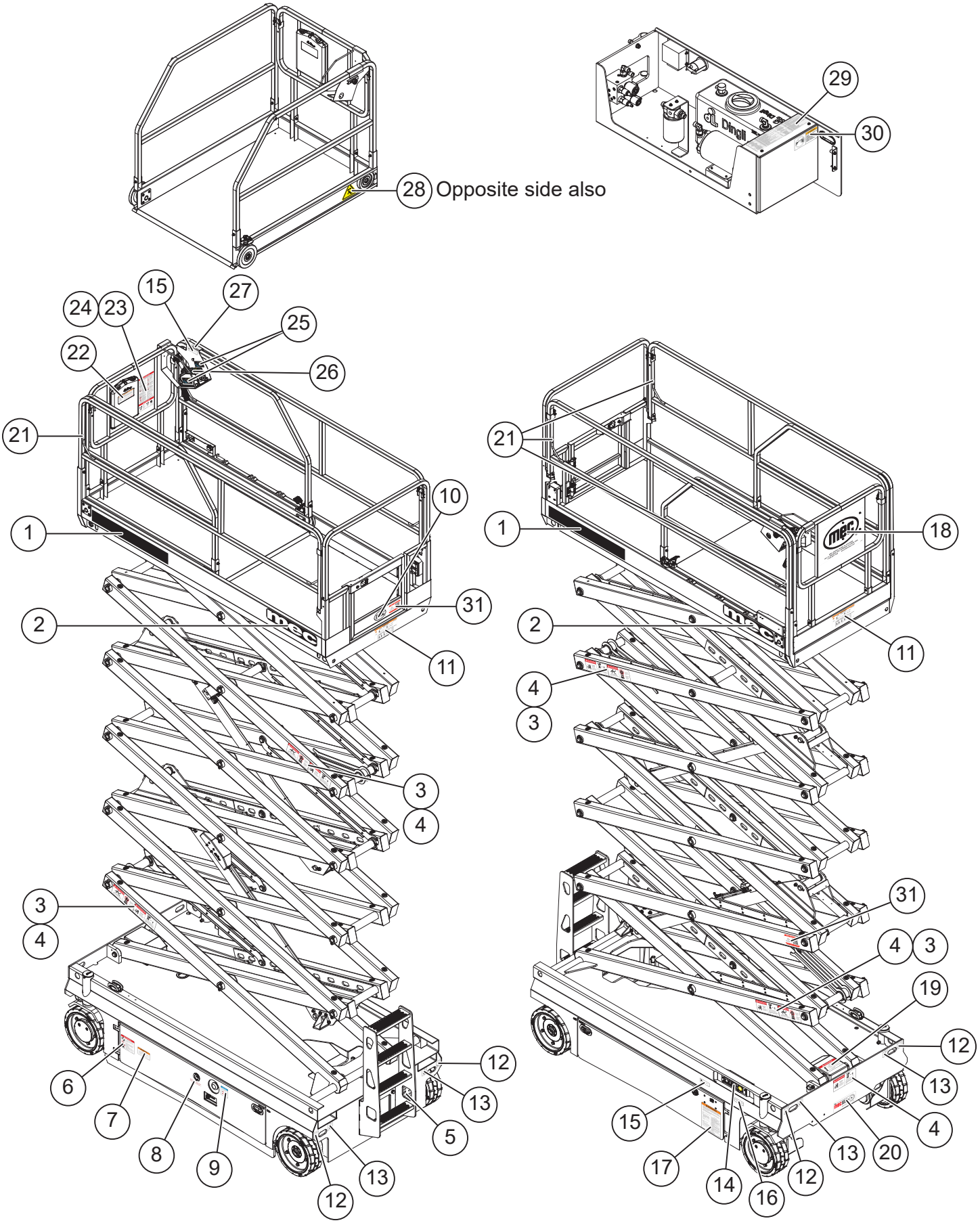
32 2632SE ONLY


95257 Qty. - 2

3346SE ONLY


95258 Qty. - 2

Decal Locations - 4046SE, 4555SE



1

4046SE

4046SE ONLY

94258 Qty. - 2

2

4555SE

4555SE ONLY

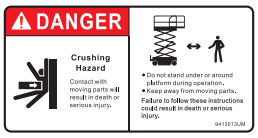
94117 Qty. - 2

3



94114 Qty. - 2

4



41748 Qty. - 4

41646 Qty. - 5

5



95215 Qty. - 1

6



41641 Qty. - 1

7



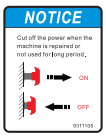
41644 Qty. - 1

8



94659 Qty. - 1

9

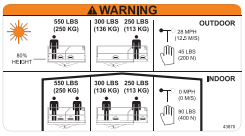


41637 Qty. - 1

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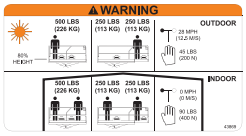
94115 Qty. - 1

11 4046SE ONLY



43870 Qty. - 2

4555SE ONLY



43869 Qty. - 2

12



41635 Qty. - 4

13



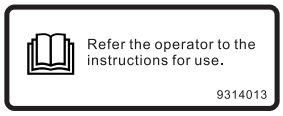
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14



95364 Qty. - 1

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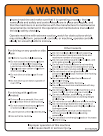


41639 Qty. - 2

16



41636 Qty. - 1

17



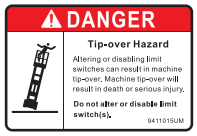
41649 Qty. - 1

18



90719 Qty. - 1

19



41642 Qty. - 1

20



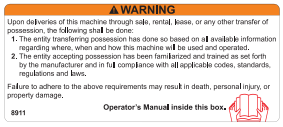
94423 Qty. - 1

21



41648 Qty. - 4

22



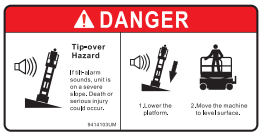
8911 Qty. - 1

23



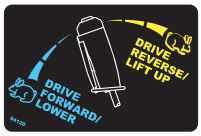
41652 Qty. - 1

24



41647 Qty. - 1

25



94120 Qty. - 2

26



41632 Qty. - 1

27



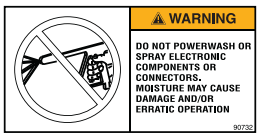
41640 Qty. - 1

28



91850 Qty. - 2

29



90732 Qty. - 1

30



43879 Qty. - 1

31 4046SE ONLY



95259 Qty. - 2

4555SE ONLY



95260 Qty. - 2

Notes

Notes

MEC Parts Order Form

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

Please Fill Out Completely:

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

Purchase Order Number _____ **Ship VIA** _____
*** All orders MUST have a Purchase Order Number*
*****Fed Ex shipments require Fed Ex account number*

Part Number	Description	Quantity	Price

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

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

Signature _____

Limited Owner Warranty

MEC Aerial Platform Sales Corp. warrants its equipment to the original purchaser against defects in material and/or workmanship under normal use and service for one (1) year from date of registered sale or date the unit left the factory if not registered. MEC Aerial Platform Sales Corp. further warrants the structural weldments of the main frame and scissor arms to be free from defects in material or workmanship for five (5) years from date of registered sale or date unit left the factory if not registered. Excluded from such warranty is the battery(s) which carries a ninety (90) day warranty from described purchase date. Warranty claims within such warranty period shall be limited to repair or replacement, MEC Aerial Platform Sales Corp's option, of the defective part in question and labor to perform the necessary repair or replacement based on MEC Aerial Platform Sales Corp's then current flat rate, provided the defective part in question is shipped prepaid to MEC Aerial Platform Sales Corp. and is found upon inspection by MEC Aerial Platform Sales Corp. to be defective in material and/or workmanship. MEC Aerial Platform Sales Corp. shall not be liable for any consequential, incidental or contingent damages whatsoever. Use of other than factory authorized parts; misuse, improper maintenance, or modification of the equipment voids this warranty. The foregoing warranty is exclusive and in lieu of all other warranties, express or implied. All such other warranties, including implied warranties of merchantability and of fitness for a particular purpose, are hereby excluded. No Dealer, Sales Representative, or other person purporting to act on behalf of MEC Aerial Platform Sales Corp. is authorized to alter the terms of this warranty, or in any manner assume on behalf of MEC Aerial Platform Sales Corp. any liability or obligation which exceeds MEC Aerial Platform Sales Corp's obligations under this warranty.



MEC Aerial Work Platforms

1401 S. Madera Avenue, Kerman, CA 93630 USA
Toll Free: 1-877-632-5438
Phone: 1-559-842-1500
Fax: 1-559-842-1520
info@MECawp.com
www.MECawp.com