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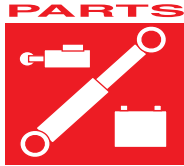
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# SECTION A

## CONTROLS

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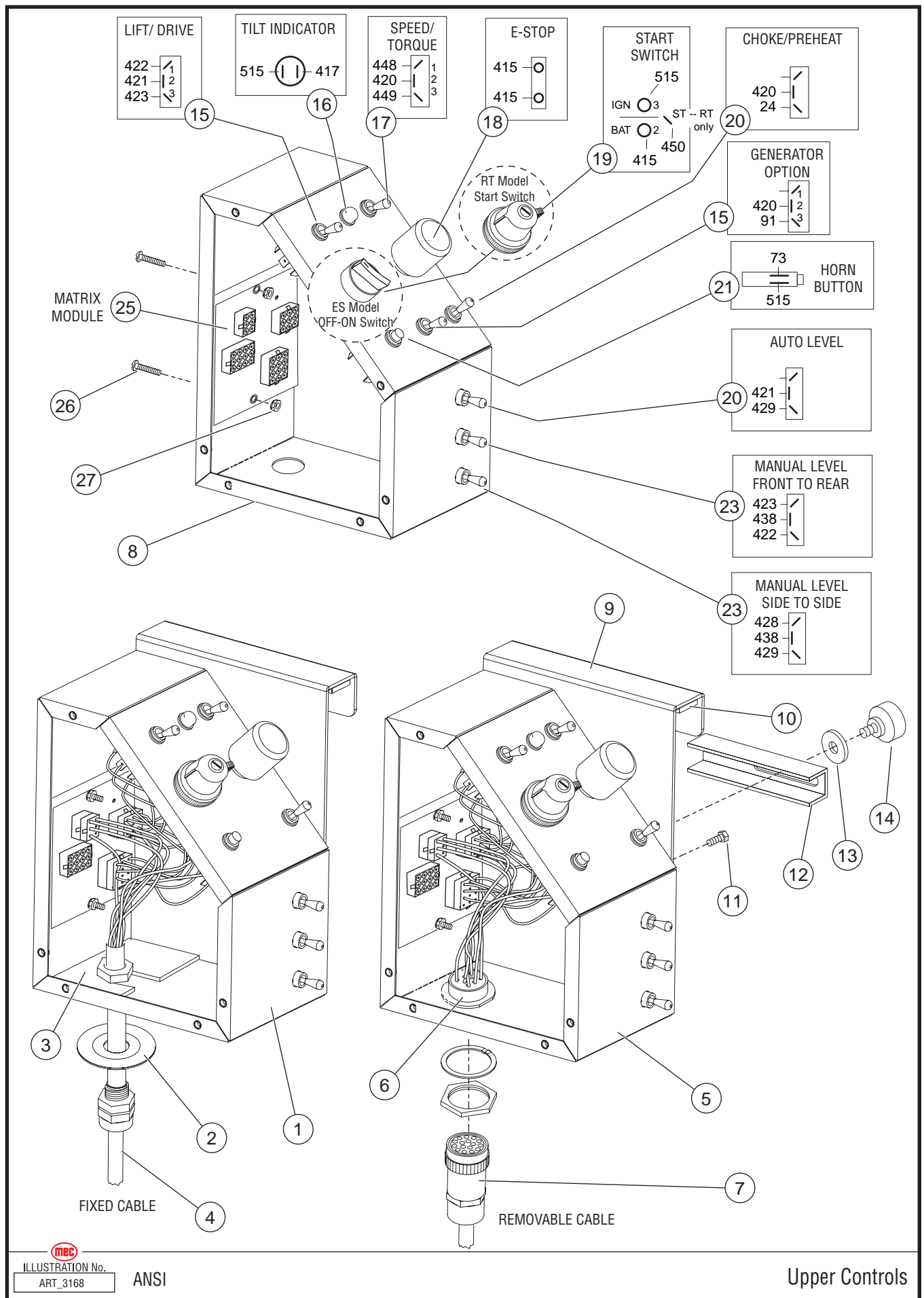


  
 ILLUSTRATION No.  
 ART\_3168

ANSI

Upper Controls

## Upper Controls, ANSI Models

ITEM	PART NO.	QTY	DESCRIPTION
<b>Fixed Control Box Assembly</b>			
1	83062	1	Assembly With Fixed Cable, ES Models
	83063	1	Assembly With Fixed Cable, RT Models
2	REF	1	Strain Relief Washer (see Wire Harness, Section F)
3	REF	1	Mounting Plate (see Wire Harness, Section F)
4	REF	1	Cable, Fixed (see Wire Harness, Section F)
<b>Removable Control Box Assembly</b>			
5	83064	1	Assembly With Removable Cable, ES Models
	83065	1	Assembly With Removable Cable, RT Models
6	REF	1	Harness, Removable (see Wire Harness, Section F)
7	REF	1	Cable, Removable (see Wire Harness, Section F)
<b>All Models</b>			
8	16242	1	Weldment, Control Box
9	13865	1	Bracket, Control Box Holder
10	6350	.5 FT	Tape, Foam
11	50109	1	Screw, 5/16-18
12	13864	1	Bracket, Control Box Holder
13	50063	1	Washer, Flat
14	8826	1	Thumb Screw, 5/16-18, Flower
15	6234	1	Switch, Toggle, Lft/Drive
	6234	1	Switch, Toggle, Generator Option
16	9184	1	Lens, Amber, Tilt Indicator
	9188	1	Light, Bayonet, 14 Volt
	9179	1	Socket, Indicator Light
17	6905	1	Switch, Toggle, Speed/Torque
18	7800	1	Switch, Emergency Stop
19 RT	91619	1	RT MODELS - Switch, Start
19 ES	91926	1	ES MODELS - Switch, Start
	90714	1	ES MODELS - Switch Base
	8082	1	ES MODELS - Contact Block, N.O.
20	5630	1	Switch, 2-Position Momentary Single Pole
21	8044	1	Switch, Button (Horn option)
	8819	1	Boot
22	--	--	--
23	91954	2	Switch, 3-Position Momentary
24	--	--	--
25	91663	1	Matrix Module
26	50189	2	Screw, 10-32 x 1..25
27	50238	2	Nut, 10-32 Nylock

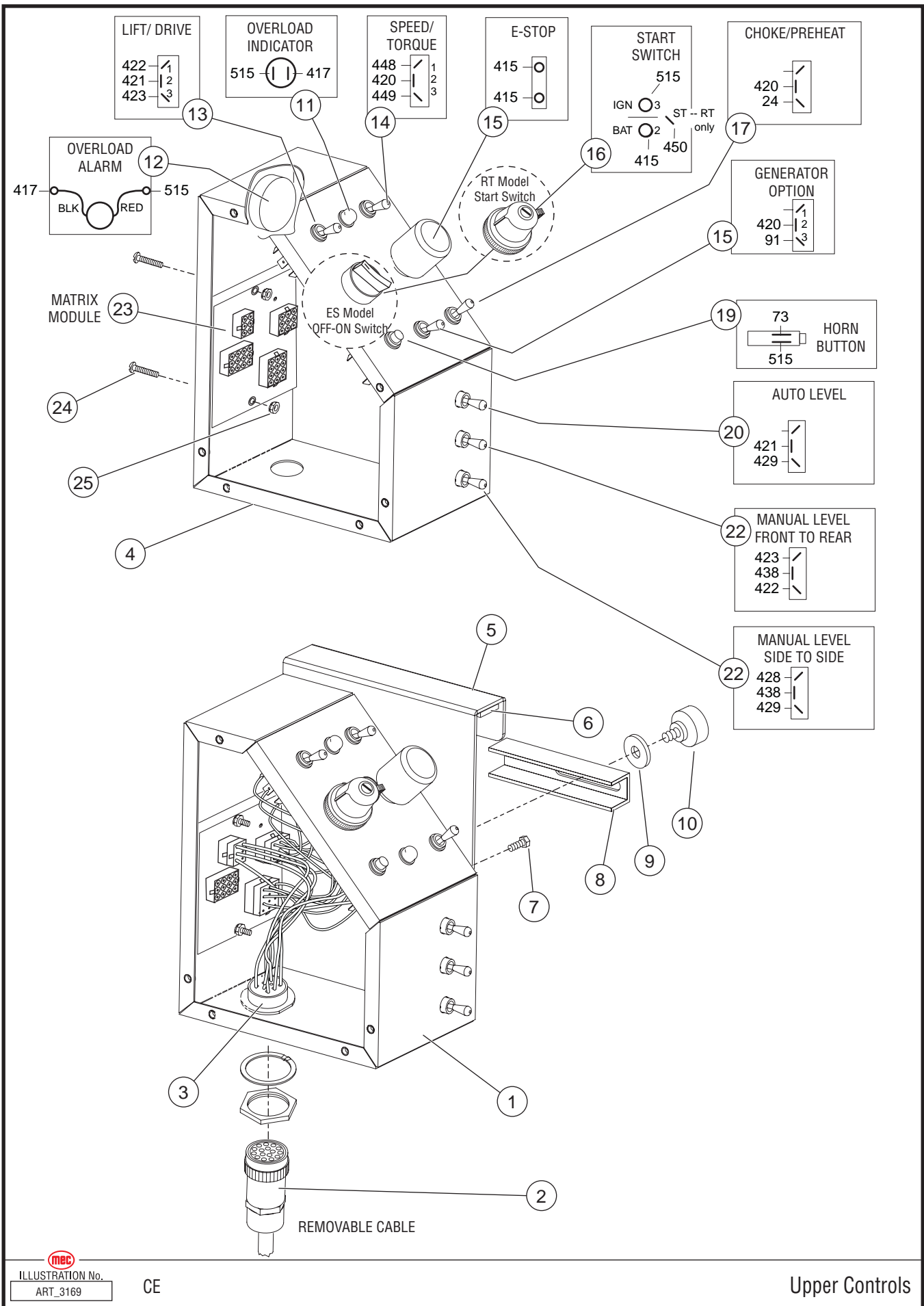
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• INCL: Included with assembly

• NS: Not a Stock item

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**mecc**  
ILLUSTRATION No.  
ART\_3169

CE

Upper Controls

## Upper Controls, CE Models

ITEM	PART NO.	QTY	DESCRIPTION
<b>Removable Control Box Assembly</b>			
1	83066	1	Assembly With Removable Cable, ES Models
	83067	1	Assembly With Removable Cable, RT Models
2	REF	1	Harness, Removable (see Wire Harness, Section F)
3	REF	1	Cable, Removable (see Wire Harness, Section F)
4	16242	1	Weldment, Control Box
5	13865	1	Bracket, Control Box Holder
6	6350	.5 FT	Tape, Foam
7	50109	1	Screw, 5/16-18
8	13864	1	Bracket, Control Box Holder
9	50063	1	Washer, Flat
10	8826	1	Thumb Screw, 5/16-18, Flower
11	9183	1	Lens, Red, Overload
	9188	1	Light, Bayonet, 14 Volt
	9179	1	Socket, Indicator Light
12	7553	1	Alarm
13	6234	1	Switch, Toggle, Lft/Drive
	6234	1	Switch, Toggle, Generator Option
14	6905	1	Switch, Toggle, Speed/Torque
15	7800	1	Switch, Emergency Stop
16 RT	91619	1	RT MODELS - Switch, Start
16 ES	91926	1	ES MODELS - Switch, Start
	90714	1	ES MODELS - Switch Base
	8082	1	ES MODELS - Contact Block, N.O.
17	5694	1	Switch, Toggle, Choke/Preheat (RT Only)
18	--	--	--
19	8044	1	Switch, Button (Horn option)
20	5630	1	Switch, 2-Position Momentary Single Pole
21	5694	1	Switch, Toggle, Manual Level, Front-Rear
22	91954	2	Switch, 3-Position Momentary
23	91663	1	Matrix module
24	50189	2	Screw, 10-32 x 1..25
25	50238	2	Nut, 10-32 Nylock

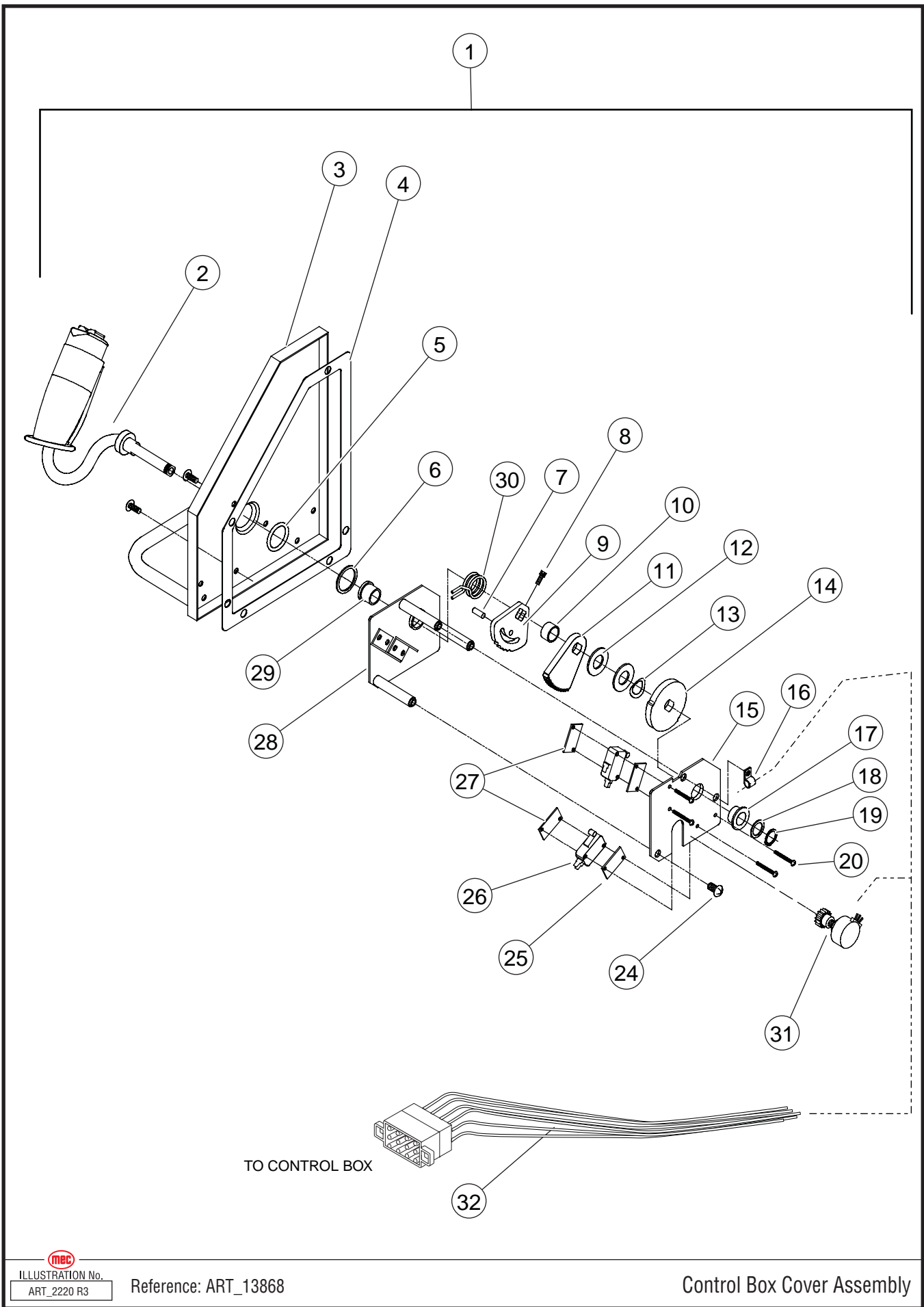
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TO CONTROL BOX

**MEC**  
 ILLUSTRATION No.  
 ART\_2220 R3

Reference: ART\_13868

Control Box Cover Assembly



## Upper Control Box Cover Assembly

ITEM	PART NO.	QTY	DESCRIPTION
1	83076	1	Control Box Cover Assembly
2	92199	1	Joystick Assembly
3	3772	1	Cover
4	7875	1	Gasket
5	7882	1	O-Ring
6	HDW3768	1	Washer, Flat
7	1008348	1	Pin, Hold Down
8	50155	1	Screw, 6-32 x 1/2 inch
9	13502	1	Bracket, Centering
10	3763	1	Spacer, Step
11	13402	1	Gear, large
12	HDW8531	2	Washer, Flat
13	HDW7881	1	Washer, Bevel
14	3782	1	Cam, Directional
15	13403	1	Plate, Bottom
16	6917	1	Clamp, Cable, 1/4 inch
17	7818	1	Bearing, Bronze, Flanged
18	HDW3771	1	Washer, Flat
19	5736	1	Ring, Retaining, 1/2 inch
20	50139	4	Screw, 4-40 x 5/8 inch
21	--	--	--
22	--	--	--
23	--	--	--
24	50191	12	Screw, 10-32 x 1/2 inch
25	3764	2	Plate, Spacer
26	8696	2	Switch, Limit, Micro V7
27	3765	2	Plate, Strap
28	3766	1	Plate, Top
29	7819	1	Bearing, Bornze, Flanged
30	8435	1	Spring, Joystick Centering
31	91824	1	Potentiometer Assembly
32	REF	1	Wire Harness, (see Wire Harness, Section F)

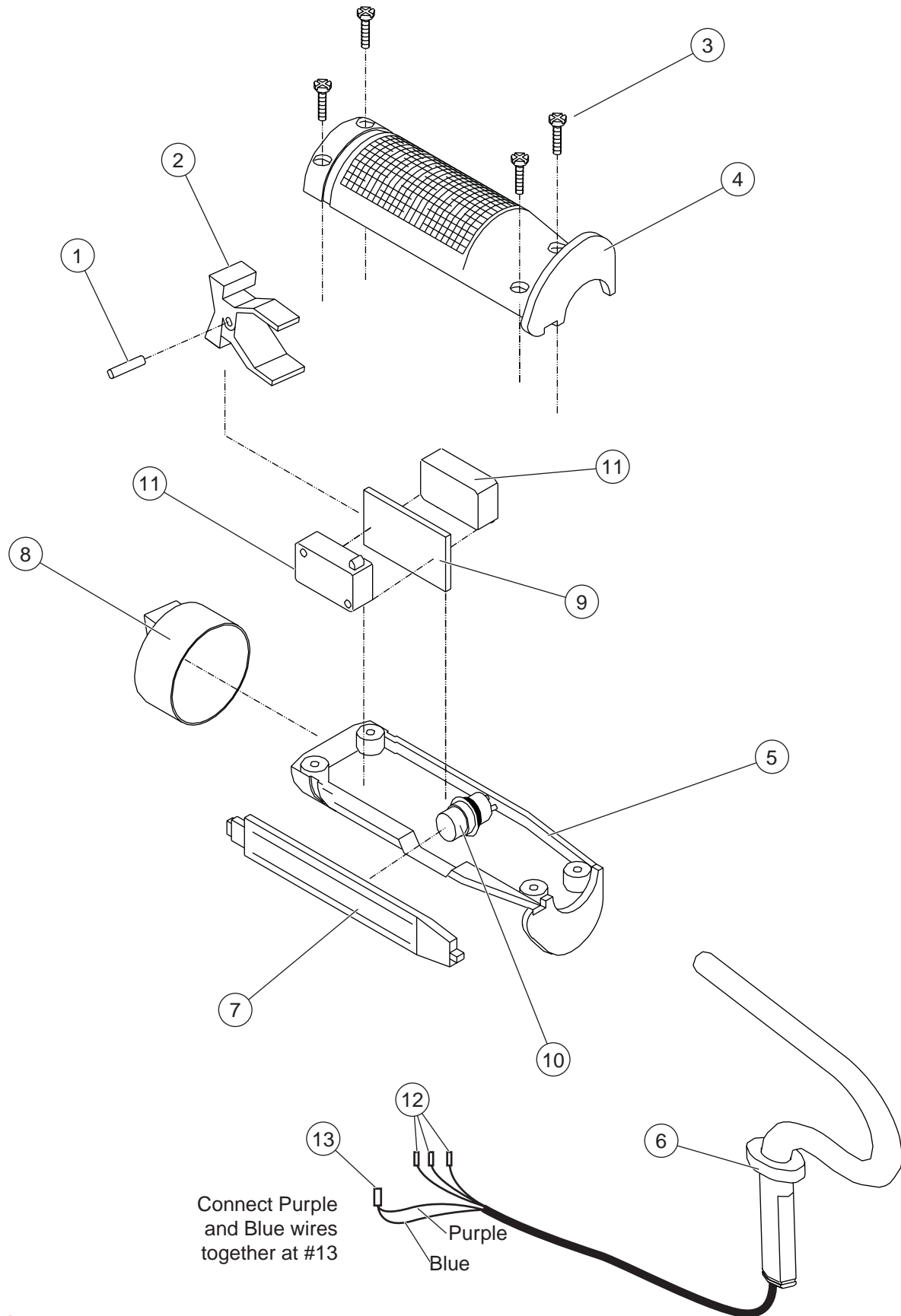
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Connect Purple and Blue wires together at #13

Purple

Blue

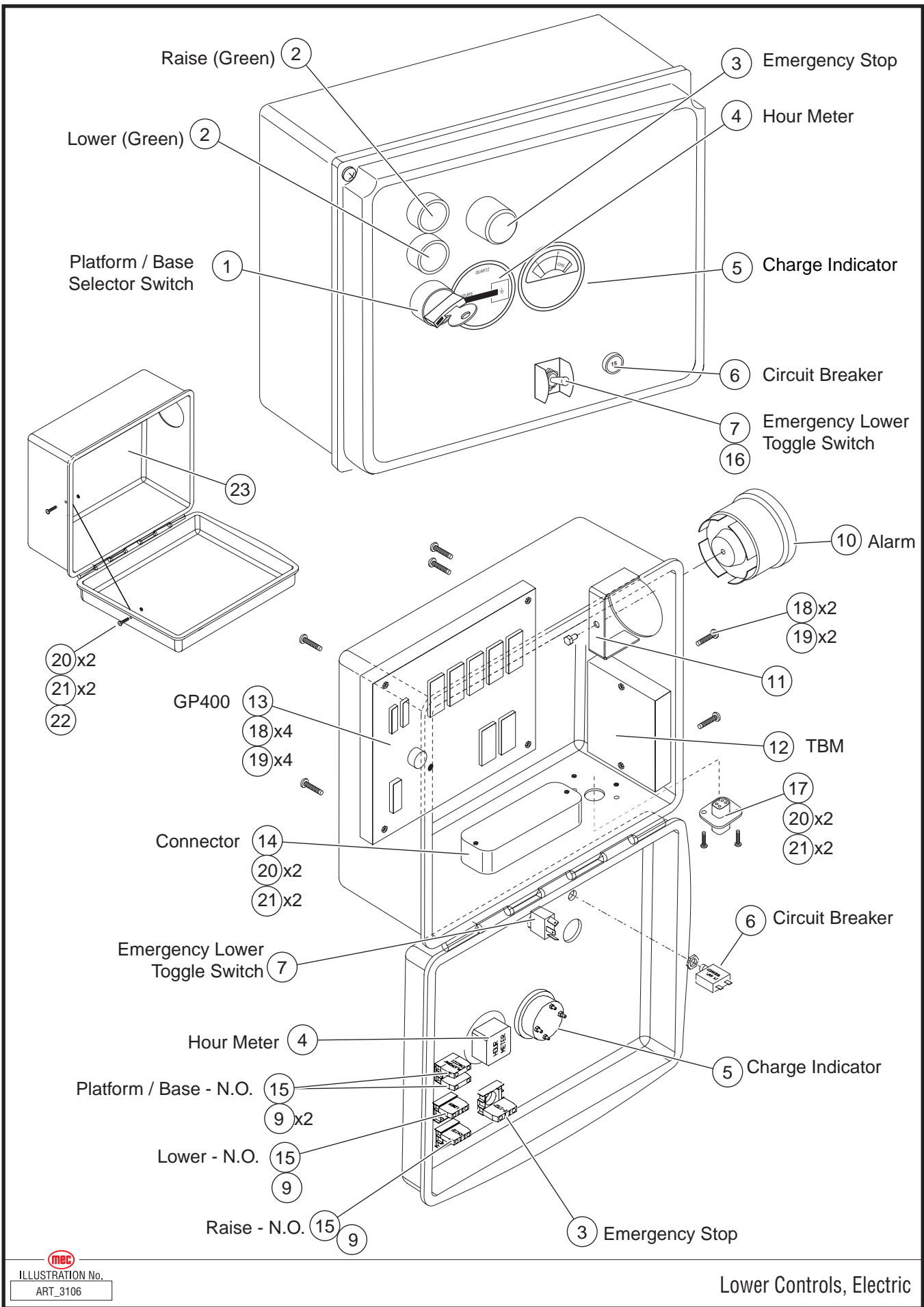
Control Arm (Joystick)

**MEC**  
 ILLUSTRATION No.  
 ART\_2221 R1

Reference: ART\_188

## Upper Control Joystick

ITEM	PART NO.	QTY	DESCRIPTION
--	92199	--	Joystick Assembly
--	8630	--	Joystick Assembly without Control Arm (#6)
1	8750	1	Pin (Service Only)
2	8453	1	Switch Actuator (Service Only)
3	HDW8455	4	Screw (Service Only)
4	8752	1	Grip, Top Half (Service Only)
5	8751	1	Grip, Bottom Half (Service Only)
6	13638	1	Control Arm without wire
7	8748	1	Trigger (Service Only)
8	8456	1	Rocker Boot (Service Only)
9	8447	1	Switch Seperator (Service Only)
10	8753	1	Motion Switch, OFF-ON (Service Only)
11	8448	2	Switch (Service Only)
12	91839	3	Amp Socket (not shown)
13	92194	1	Push Connector, 3/16"
--	8761	--	Switch Assembly (not shown) -- includes item #9, item #11 (x2), wire and connectors



## Lower Controls, 3084ES Electric Models

ITEM	PART NO.	QTY	DESCRIPTION
--	83077	1	Lower Control Box Assembly, ES Models
1	9549	1	Switch, 3-Position, Keyed
2	91667	2	Switch, Button, Green
3	7800	1	Switch, Emergency Stop, Red
4	91704	1	Hour Meter
5	91744	1	Charge Indicator
6	7235	1	Circuit Breaker
7	5630	1	Switch, Toggle, 1 Pole 2 Position
8	--	--	--
9	8082	4	Contact Block, N. O.
10	91711	1	Alarm, 107dB
11	17082	1	Bracket, Alarm Mount
12	91838	1	Terminal Block Module (TBM)
13	91659	1	System Controller, GP400
14	91887	1	Deutsch Connector, DRC 12 70P
15	90714	3	Contact Base
16	1313	1	Switch Guard
17	91290	1	Deutsch Connection, DT14-4P-L012
18	50229	6	Screw, 10-24 x 1.00
19	50230	6	Nut, 10-24 Nylock
20	50233	6	Screw, 8-32 x 1.00
21	50231	6	Nut, 8-32 Nylock
22	91921	1	Lanyard
23	92015C	1	Control Box
--	REF	--	Harness -- See Section F

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

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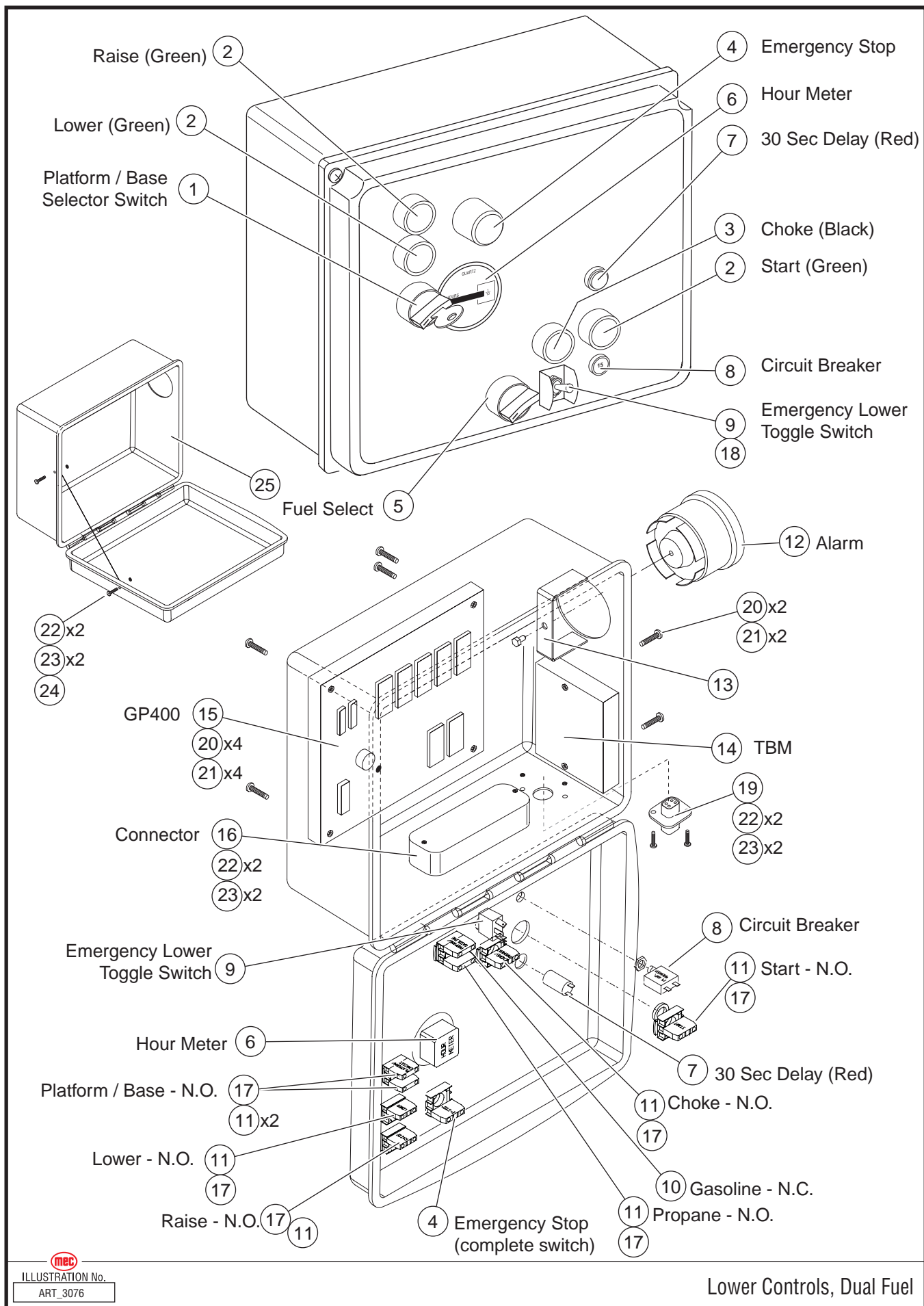


  
 ILLUSTRATION No.  
 ART\_3076

Lower Controls, Dual Fuel

## Lower Controls, 3084RT Dual Fuel Models

ITEM	PART NO.	QTY	DESCRIPTION
–	83078	1	Lower Control Box Assembly, DF Models
1	9549	1	Switch, 3-Position, Keyed
2	91667	3	Switch, Button, Green
3	91957	1	Switch, Button, Black
4	7800	1	Switch, Emergency Stop
5	91926	1	Switch, 2-Position
6	91704	1	Hour Meter
7	92254	1	Light, Red
8	7235	1	Circuit Breaker
9	5630	1	Switch, Toggle, 1 Pole 2 Position, Emergency Down
10	8083	1	Contact Block, N. C.
11	8082	7	Contact Block, N. O.
12	91711	1	Alarm, 107dB
13	17082	1	Bracket, Alarm Mount
14	91838	1	Terminal Block Module (TBM)
15	91659	1	System Controller, GP400
16	91887	1	Deutsch Connector, DRC 12 70P
17	90714	6	Contact Base
18	1313	1	Switch Guard
19	91290	1	Deutsch Connection, DT14-4P-L012
20	50229	6	Screw, 10-24 x 1.00
21	50230	6	Nut, 10-24 Nylock
22	50233	6	Screw, 8-32 x 1.00
23	50231	6	Nut, 8-32 Nylock
24	91921	1	Lanyard
25	92016C	1	Control Box
--	REF	--	Harness -- See Section F

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• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



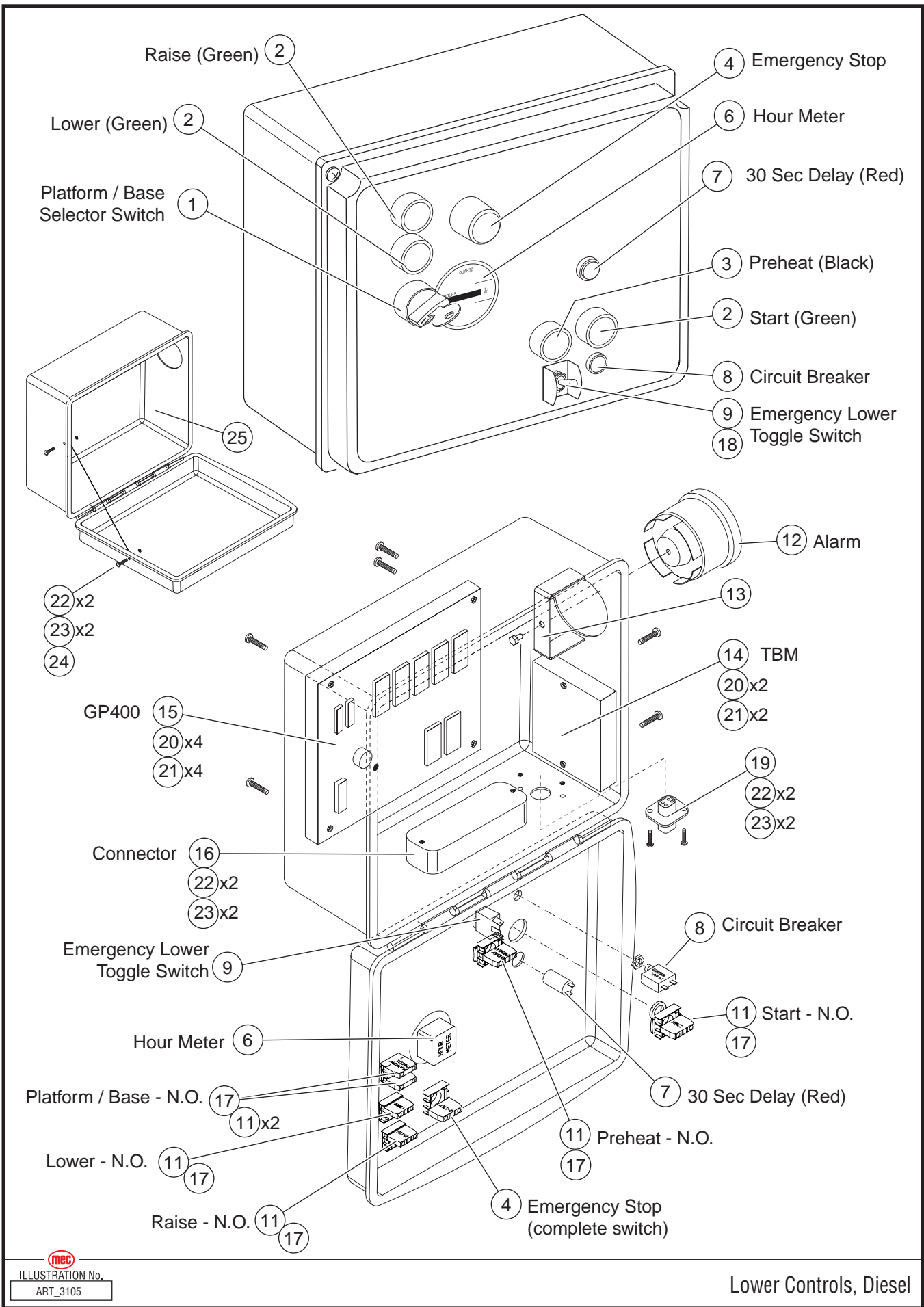


  
 ILLUSTRATION No.  
 ART\_3105

Lower Controls, Diesel



## Lower Controls, 3084RT Diesel Models

ITEM	PART NO.	QTY	DESCRIPTION
--	83079	1	Lower Control Box Assembly, Diesel Models
1	9549	1	Switch, 3-Position, Keyed
2	91667	3	Switch, Button, Green
3	91957	1	Switch, Button, Black
4	7800	1	Switch, Emergency Stop
--	--	--	--
6	91704	1	Hour Meter
7	92254	1	Light, Red
8	7235	1	Circuit Breaker
9	5630	1	Switch, Toggle, 1 Pole 2 Position, Emergency Down
--	--	--	--
11	8082	6	Contact Block, N. O.
12	91711	1	Alarm, 107dB
13	17082	1	Bracket, Alarm Mount
14	91838	1	Terminal Block Module (TBM)
15	91659	1	System Controller, GP400
16	91887	1	Deutsch Connector, DRC 12 70P
17	90714	6	Contact Base
18	1313	1	Switch Guard
19	91290	1	Deutsch Connection, DT14-4P-L012
20	50229	6	Screw, 10-24 x 1.00
21	50230	6	Nut, 10-24 Nylock
22	50233	6	Screw, 8-32 x 1.00
23	50231	6	Nut, 8-32 Nylock
24	91921	1	Lanyard
25	92016C	1	Control Box
--	REF	--	Harness -- See Section F

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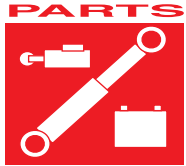
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**NOTES:**

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# SECTION B

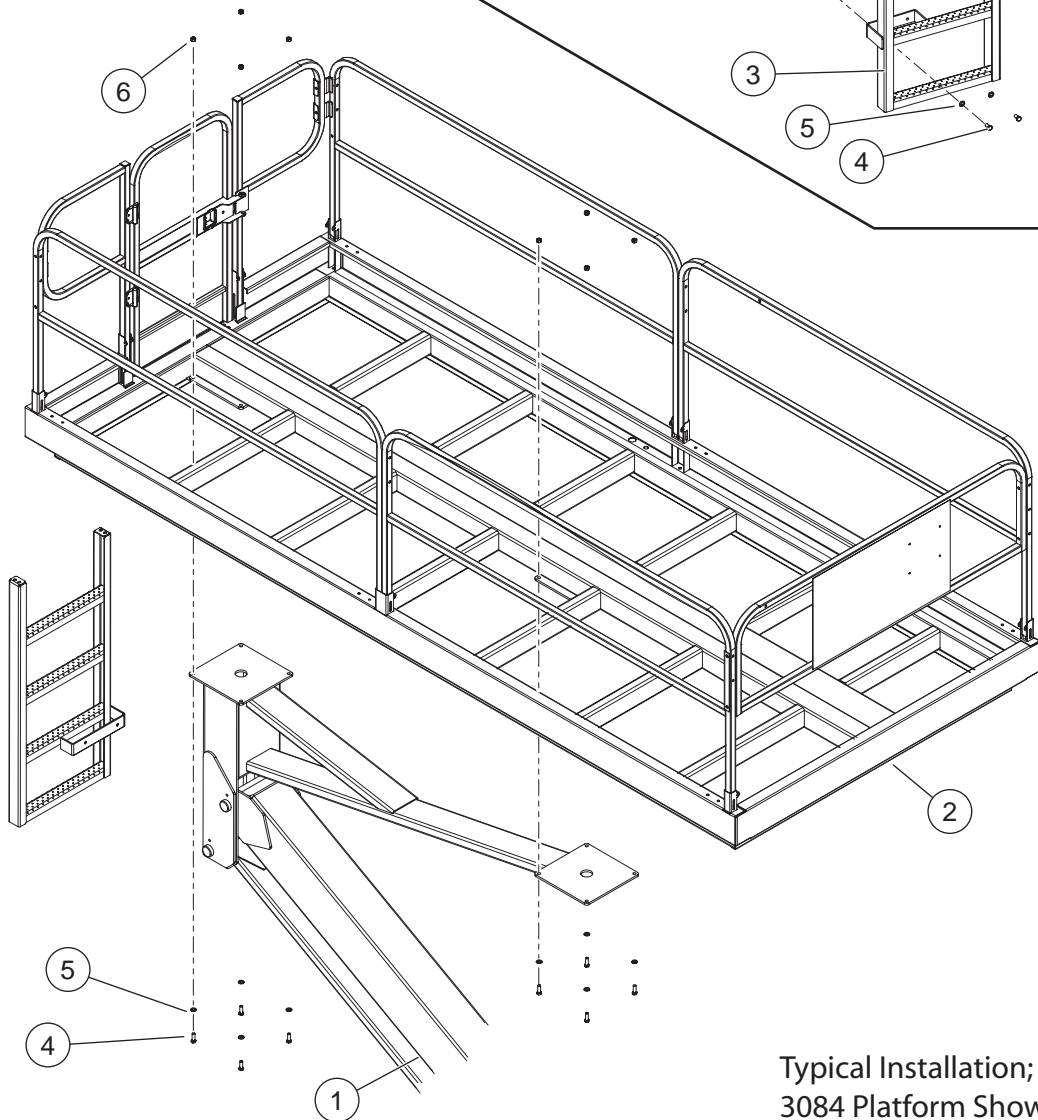
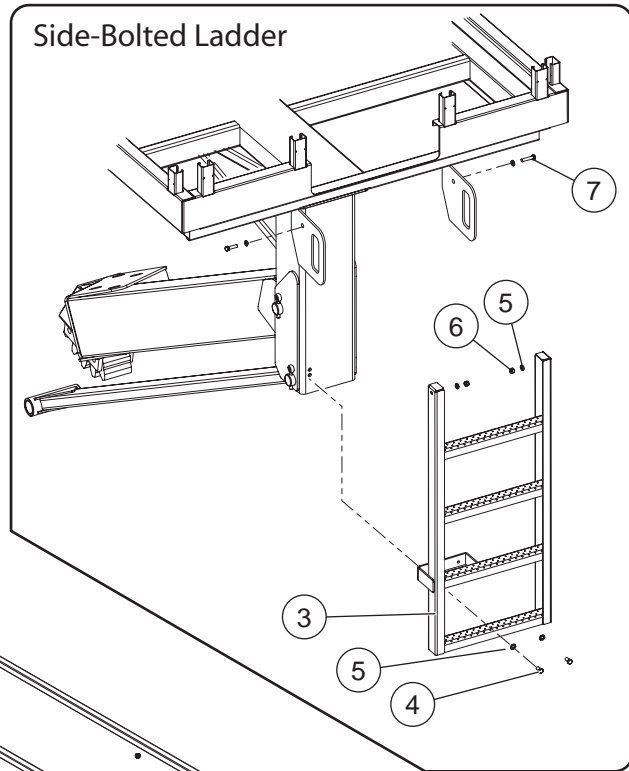
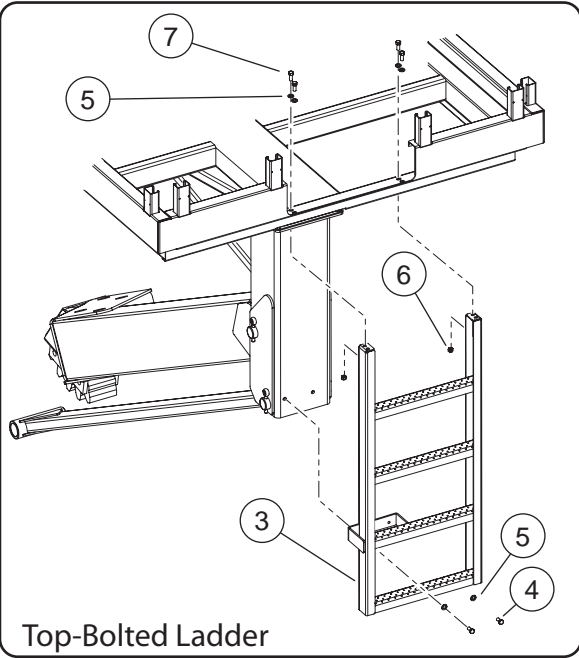
## PLATFORM AND RAILS

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Typical Installation;  
3084 Platform Shown

Platform Installation

 ILLUSTRATION No.  
ART\_3114

Speed Level™ Sigma Lift

## Platform Installation

ITEM	PART NO.	QTY	DESCRIPTION
1	83083	REF	Boom Assembly
2	83080	REF	Platform Assembly, 3084
	83097	REF	Platform Assembly, 2684
3	19258	1	Ladder, Side-Bolted
	19148	1	Ladder, Top-Bolted
4	50040	10	Bolt, M12 x 35, GR8.8
5	50003	14	Washer, 13.5 mm ID x 24mm OD
6	50054	14	Nut, M12, GR8.8
7	50039	4	Bolt, M12 x 30

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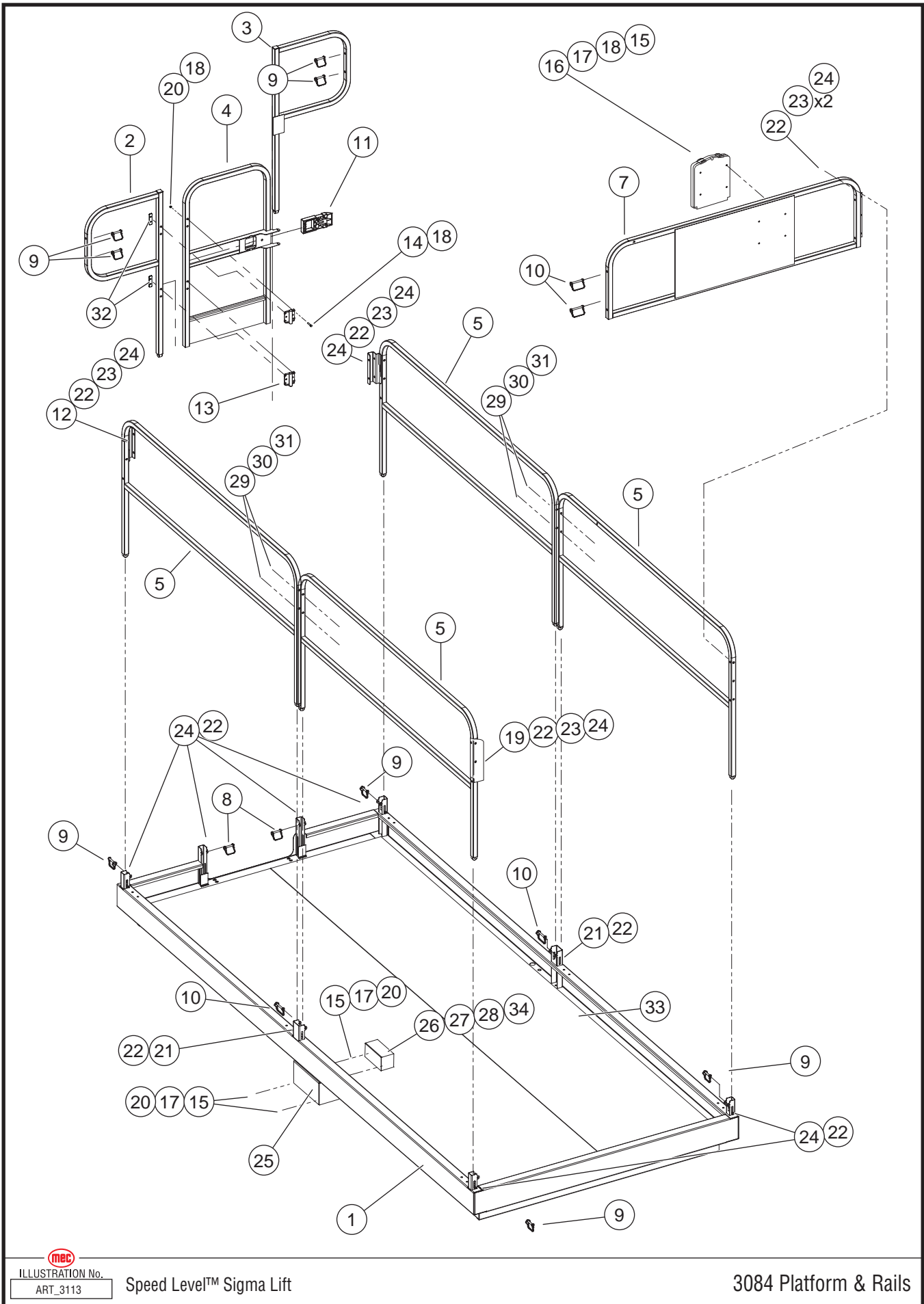


ILLUSTRATION No.  
ART\_3113

Speed Level™ Sigma Lift

3084 Platform & Rails

## Platform & Rails, 3084

ITEM	PART NO.	QTY	DESCRIPTION
-	83080	1	Platform Assembly, 3084
1	19252	1	Platform Deck
2	19207	1	Entry Rail, RH
3	19221	1	Entry Rail, LH
4	19192	1	Gate
5	19216	4	Side Rail
6	--	--	--
7	19218	1	Front Rail
8	50182	2	Clip Fastener, 3/8 X 2
9	50183	8	Clip Fastener, 3/8 X 2.25
10	50186	4	Clip Fastener, 3/8 X 3.25
11	16799	1	Gate Latch
--	7408	1	Gate Spring (not shown)
--	50015	1	Bolt, 8 x 50 (not shown)
--	50001	2	Washer, #8 (not shown)
--	50048	1	Nut, #8 Nylock (not shown)
12	19215	2	Bracket, Rear Rail
13	17960	2	Hinge - up to Serial # 11800033
	91888	2	Hinge - Serial # 11800034 - UP
14	50125	8	Bolt, 6mm x 55
15	50047	10	Nut, 6mm
16	8909	1	Manual Enclosure
17	50028	8	Bolt, 6mm x 20
18	50000	10	6mm Washer
19	19228	1	Front Gate Lock
20	50068	4	Fender Washer, M6
21	50024	2	Bolt, M10 x 85
22	50049	17	Nut, M10 Nylock
23	50002	34	Washer, M10
24	50021	15	Bolt, M10 x 55
25	19262	1	Cover, Control Cable
26	91597	1	GFI Power Box
27	91598	1	GFI Cover Plate
28	92007	1	GFI Power Plug, Female
29	50018	4	Bolt, M8 x 80
30	50048	4	Nut, M8
31	50001	8	Washer, M8
32	19238	4	Backing Plate, Hinge
33*	19263	1	Deck Plate, Single Piece
33**	19132	1	Deck Plate, 2-Piece Deck, 30" x 163.75"
	19144	1	Deck Plate, 2-Piece Deck, 38" x 163.75"
34	92008	1	Strain Relief Connector

\*Single-piece deck. \*\*2-piece deck.

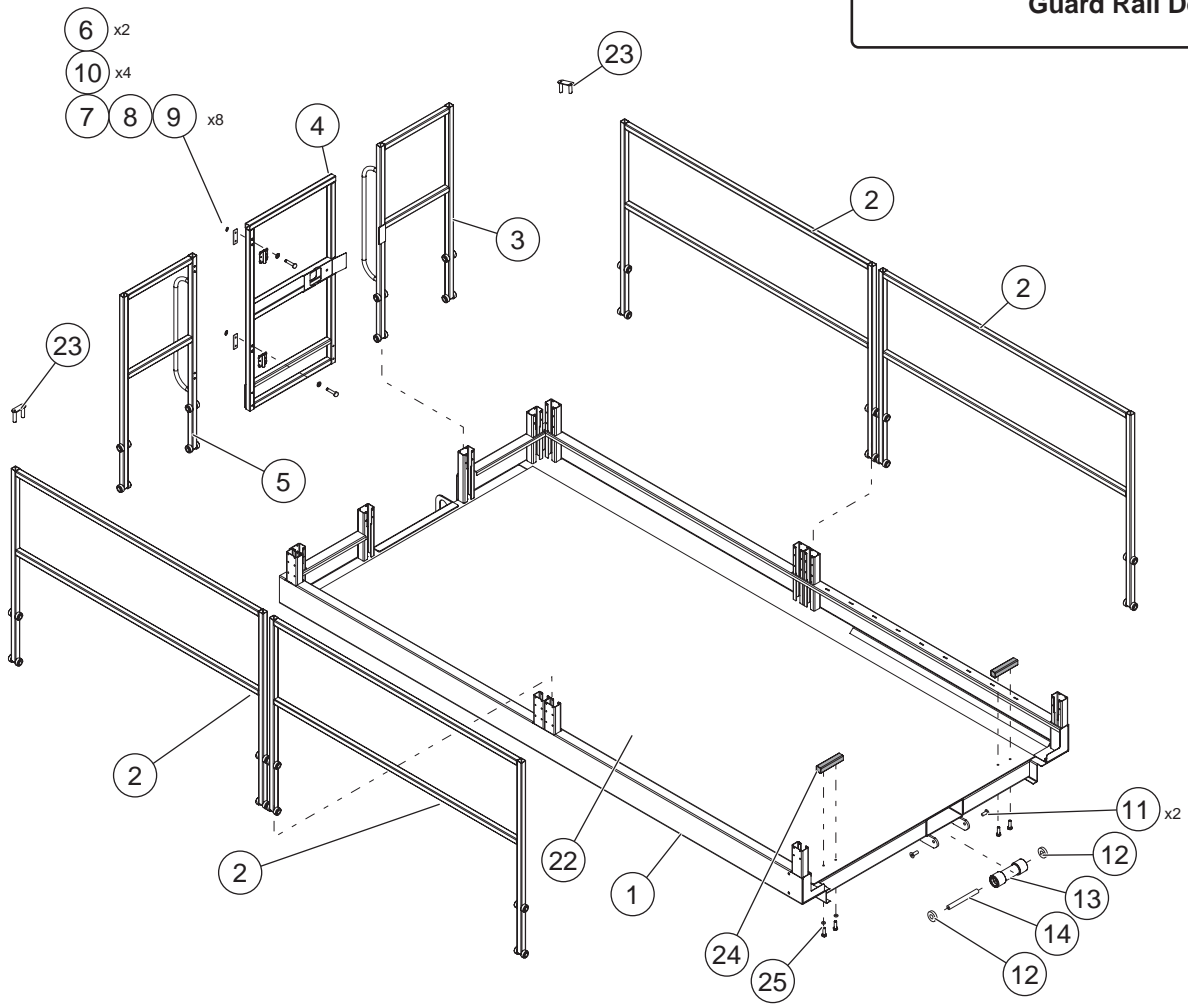
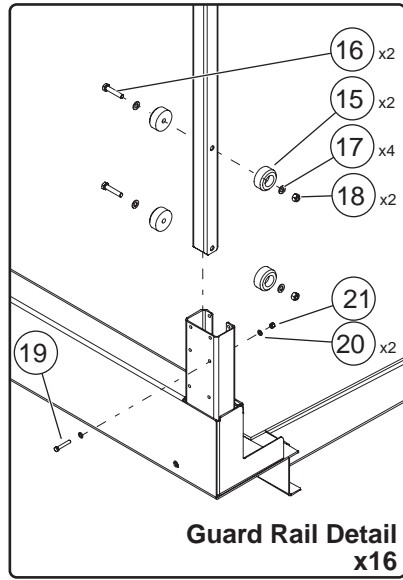
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• NS: Not a Stock item

• REF: Reference only







## Platform & Rails, 2684

ITEM	PART NO.	QTY	DESCRIPTION
–	83097	1	Platform Assembly, 2684
1	19356	1	Platform Weldment
2	19377	4	Side Rail
3	19381	1	End Rail, Left
4	22366	1	Gate Weldment
--	22372	1	Gate Toeboard
--	16799	1	Gate Latch (not shown)
--	7408	1	Gate Spring (not shown)
--	50015	1	Bolt, 8 x 50 (not shown)
--	50001	2	Washer, #8 (not shown)
--	50048	1	Nut, #8 Nylock (not shown)
5	19384	1	End Rail, Right
6	91888	2	Hinge
7	50125	8	Bolt, 6mm x 55
8	50000	8	Washer, M6 Flat
9	50047	8	Nut, M6 Nylock
10	19238	4	Backing Plate, Hinge
11	50039	10	Screw, M12x1.75 x 30,
12	91593	10	Bearing
13	19399	2	Roller
14	19398	2	Axle, Threaded
15	19131	64	Rail Wheel
16	50016	32	Bolt, M8 x 55
17	50001	64	Washer, M8
18	50048	32	Nut, M8 Nylock
19	50283	16	Bolt, M4 x 55
20	50284	32	Washer, M4
21	50285	16	Nut, M4 Nylock
22	19390	1	Platform Deck Plate
23	22459	2	Plate, Corner Cap
	22458	4	Pin, Corner Cap
	50286	4	Bolt, Button Head, M12 x 50
Items #24 and #25 used on serial numbers 12800001 - 12800009 only			
24	22248	2	Block, Deck Extension Stop
25	50036	4	Bolt, M10-1.5 x 50
	50006	4	Washer, M10 Nordloc

... continued

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



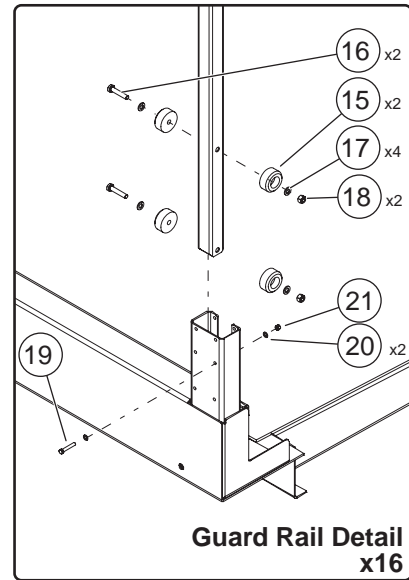
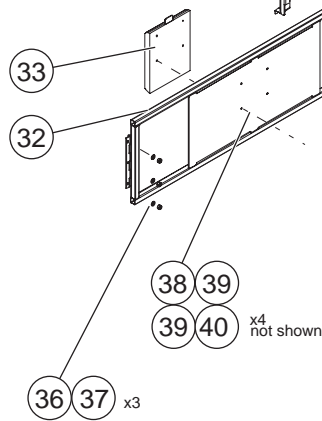
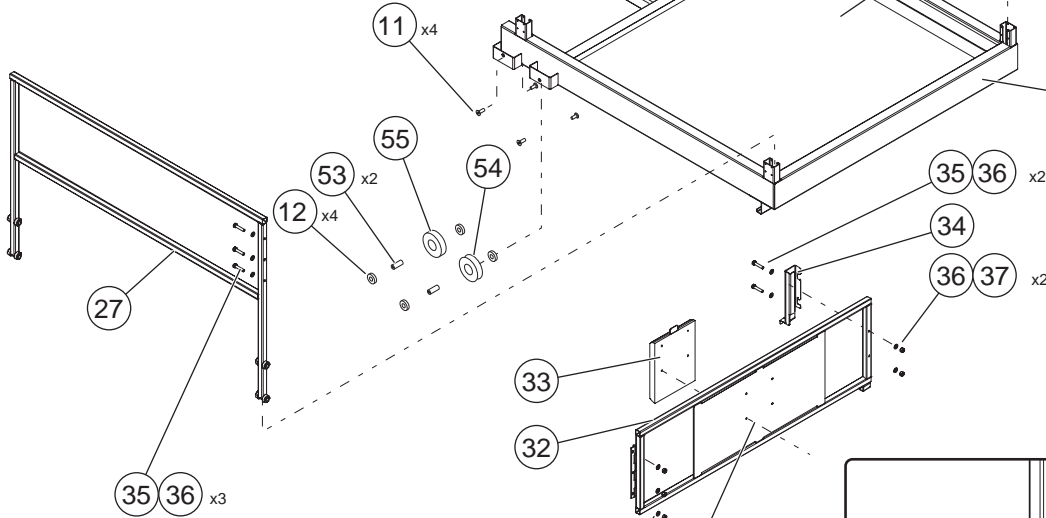
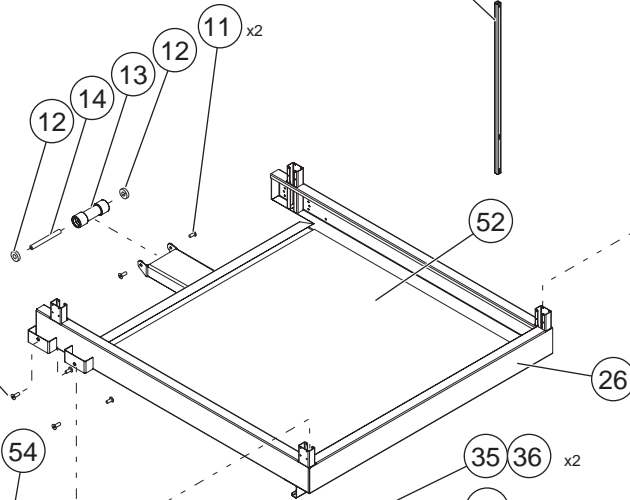
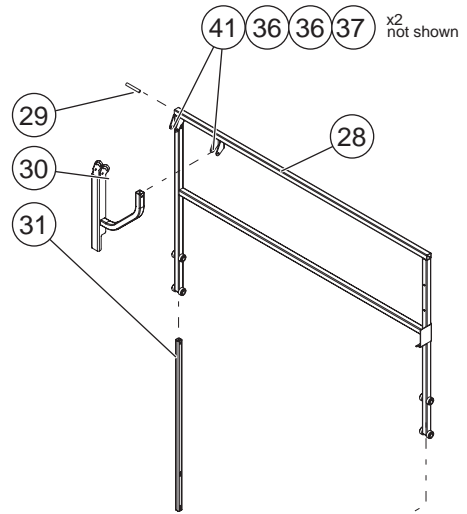
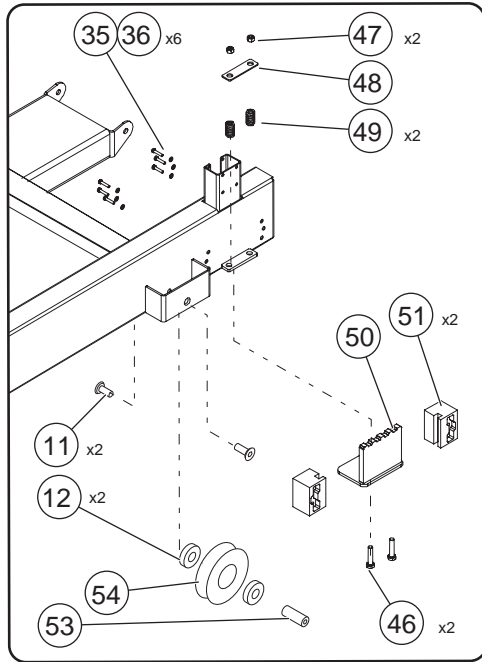


ILLUSTRATION No.  
ART\_3477

Speed Level™ Sigma Lift

2684 Platform & Rails, 2 of 2

## Platform & Rails, 2684 (continued)

ITEM	PART NO.	QTY	DESCRIPTION
-	83097	1	Platform Assembly, 2684
11		10	Screw, Countersink,
12	91593	10	Bearing,
13	19399	2	Roller
14	19398	2	Axle, Threaded,
15	19131	64	Rail Wheel,
16	50016	32	Bolt, M8 x 55
17	50001	64	Washer, M8
18	50048	32	Nut, M8 Nylock
19	50283	16	Bolt, M4 x 55
20	50284	32	Washer, M4
21	50285	16	Nut, M4 Nylock
26	19337	1	Platform Extension Weldment
27	19357	1	Side Rail, Deck Extension, Right Side
28	19366	1	Side Rail, Deck Extension, Left Side
29	92219	1	Spring Pin, M8 x 55
30	19367	1	Deck Extension Handle Weldment
31	19370	1	Deck Extension Bar
32	19374	1	Gate, Material Loading
33	8909	1	Manuals Case
34	19376	1	Latch, Material Loading Gate
35	50015	11	Bolt, M8 x 50
36	50001	20	Washer, M8
37	50048	7	Nut, M8 Nylock
38	50028	4	Bolt, M6 x 20
39	50000	8	Washer, M6
40	50047	4	Nut, M6
41	50287	2	Bolt, Button Head Cap Screw, M8 x 70
42	--	--	--
43	--	--	--
44	--	--	--
45	--	--	--
46	50288	2	Cap Screw, Shouldered, M10 x 60
47	50053	2	Nut, M10
48	19389	1	Plate
49	92218	2	Spring
50	19385	1	Weldment, Locking Rack
51	19388	2	Locking Track
52	19391	1	Platform Extension Deck Plate
53	16791	3	Threaded Axle
54	16793	2	V-Wheel
55	16792	1	Flat Wheel

• as req: as required

• INCL: Included with assembly

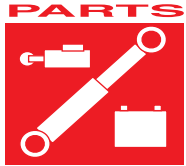
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• REF: Reference only



**NOTES:**

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# SECTION C

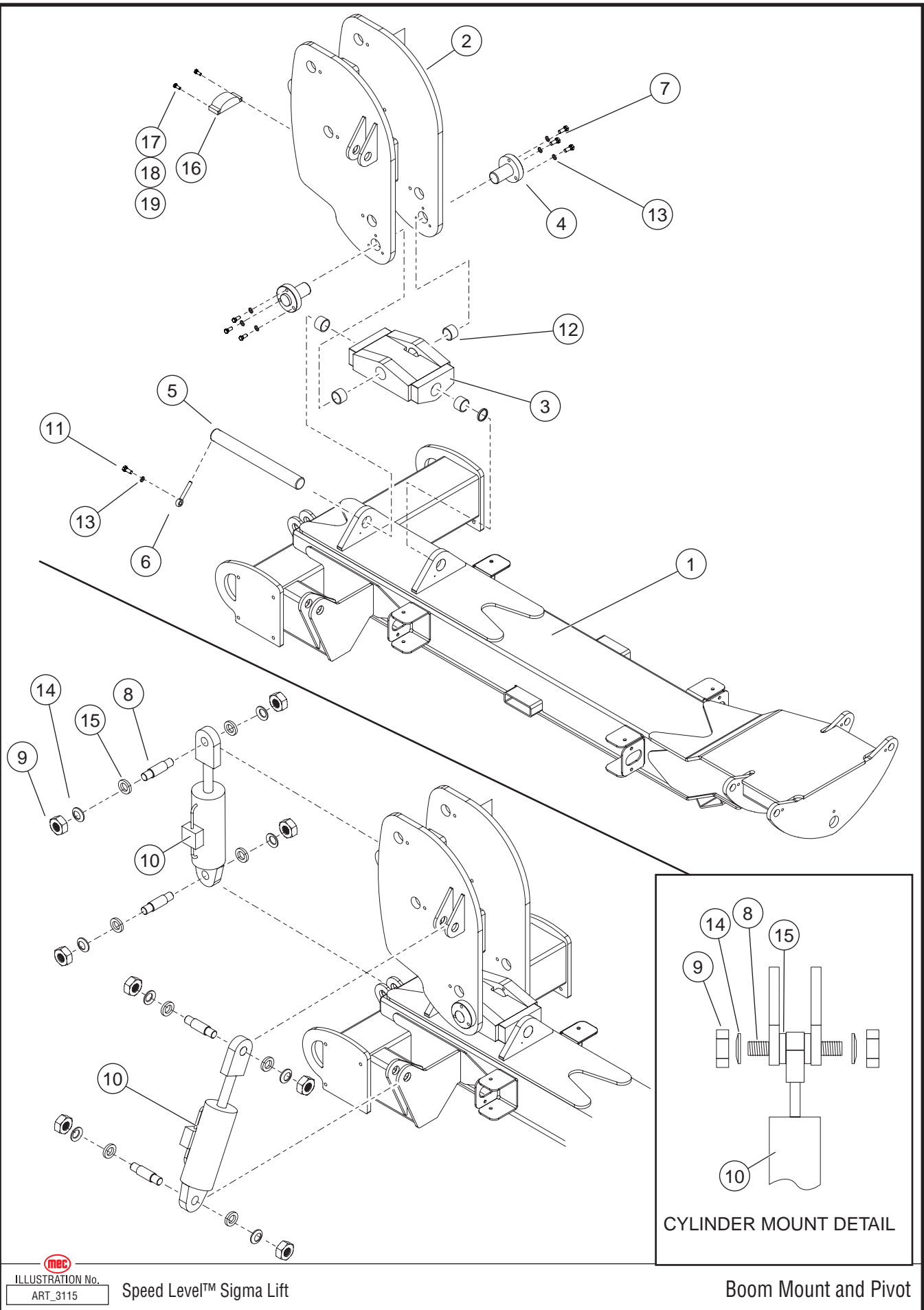
## BOOM

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Upper Boom Assembly .....	C-7





**MEC**  
 ILLUSTRATION No.  
 ART\_3115

Speed Level™ Sigma Lift

CYLINDER MOUNT DETAIL

Boom Mount and Pivot

## Boom Mount and Pivot

ITEM	PART NO.	QTY	DESCRIPTION
–	83081	1	Chassis Assembly
1	19020	1	Chassis Weldment
2	19031	1	Boom Mount Weldment
3	19013	1	Level Pivot Weldment
4	19124	2	Pin
5	19123	1	Pin
6	18152	1	Pin Retainer
7	50023	6	Bolt, M12 x 50
8	19122	4	Pin
9	50119	8	Nut, Nylock 1-1/4"
10	19081	2	Cylinder, Level
11	50039	1	Bolt, M12 x 30
12	92011	4	Bearing, Flange
13	50007	6	Washer, M12 Nord-Lock
14	50065	8	Flat Washer, 1¼
15	19164	8	Spacer
16	92009	1	CAN Tilt Angle Transducer, Model 151
17	50125	2	Screw, M6 x 55
18	50047	2	Nut, M6 Nylock
19	50068	2	Washer, M6 Fender
20	92040	as needed	Spacer

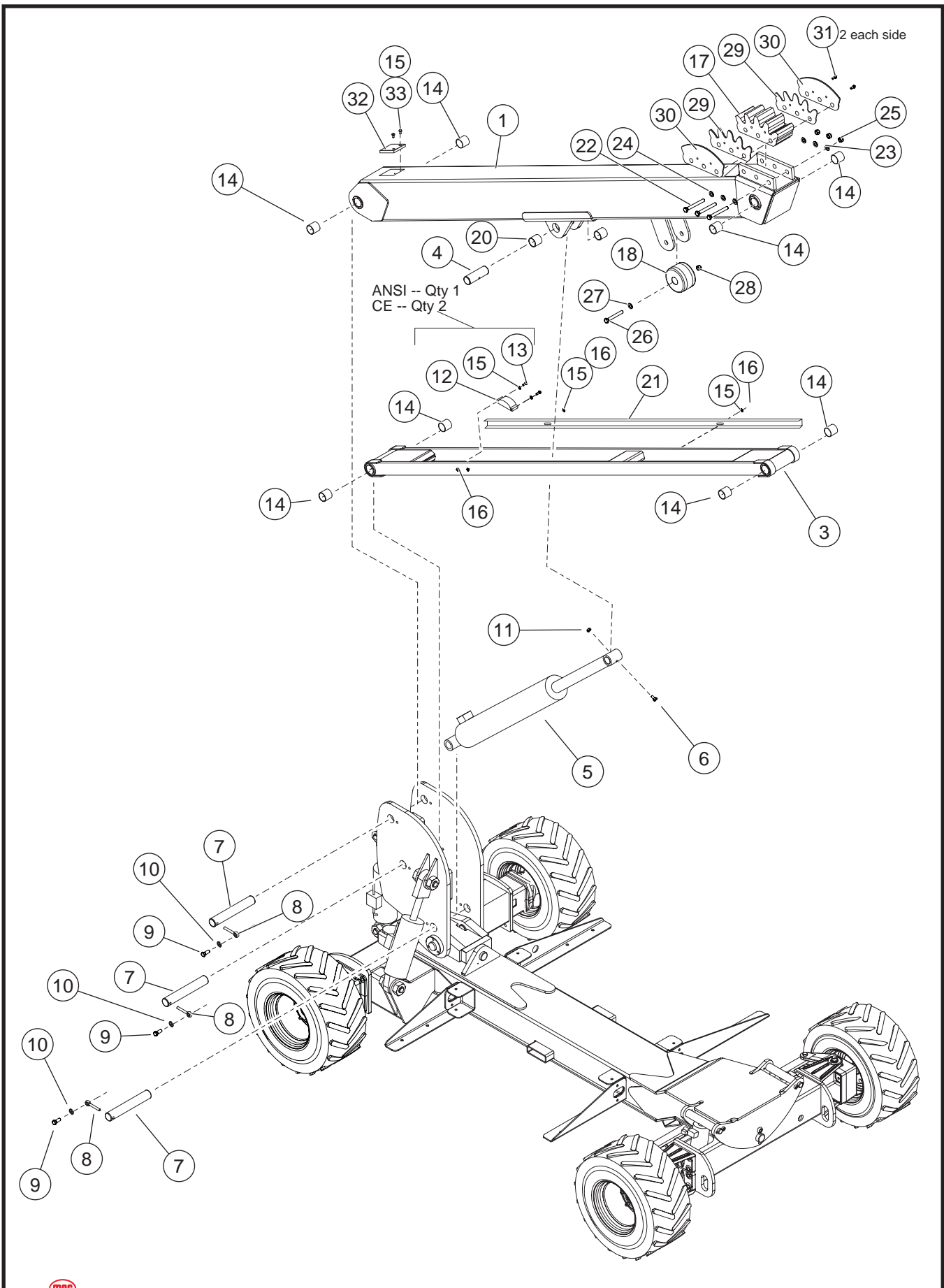
• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only





ANSI -- Qty 1  
 CE -- Qty 2

**MBC**  
 ILLUSTRATION No.  
 ART\_3116

Speed Level™ Sigma Lift

Lower Linkage Installation



## Lower Boom Assembly

ITEM	PART NO.	QTY	DESCRIPTION
--	83082	1	3084 -- Lower Boom Assembly
--	83095	1	2684 -- Lower Boom Assembly
1	19034	1	3084 -- Lower Boom Weldment
	19327	1	2684 -- Lower Boom Weldment
2	--	--	--
3	19049	1	3084 -- Lower Tension Weldment
	19329	1	2684 -- Lower Tension Weldment
4	19118	1	Cylinder Mount Pin
5	19084	1	Lift Cylinder
6	50024	1	Bolt, M10.9 x 65
7	19121	3	Pin, Boom Mount
8	18152	3	Pin Retainer
9	50039	3	Bolt, M12 x 30
10	50007	3	Washer, M12 Nordlock
11	50049	1	Lock Nut, M10
12	90844	1	ANSI Specifications - EZfit Angle Transducer, Model 120
		2	CE Specifications - EZfit Angle Transducer, Model 120
13	50016	2	ANSI Specifications - Screw, M8 x 55
		4	CE Specifications - Screw, M8 x 55
14	92011	8	Flange Bearing
15	50001	10	M8 Washer
16	50048	4	ANSI Specifications - M8 Lock Nut
		6	CE Specifications - M8 Lock Nut
17	19199	1	Gear, Pivot
18	91963	1	Wheel
19	--	--	--
20	92012	2	Flange Bearing, 2.0 x 1.0
21	19158	1	3084 -- Cable Cover
	19436	1	2684 -- Cable Cover
22	50058	3	Bolt, HHCS 1"-8 x 8", GR8, ZP
23	50063	3	Washer, 1" ZP STD FLAT
24	50064	3	Washer, 1" ZP FLAT XT
25	50120	3	Nut, NNYL 1"-8
26	50059	1	Bolt, 3/4-10 x 5.5
27	50062	1	Washer, 3/4 Std
28	50118	1	Nut, 3/4-10 Jam Nylock
29	19240	2	Spacer, Lower Boom Gear Shield
30	19241	2	Guard
31	50031	4	Bolt, M8 x 25
32	19157	1	Wear Pad
33	50124	2	Cap Screw, M8 x 1.25 x 20, Button Head Allen

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



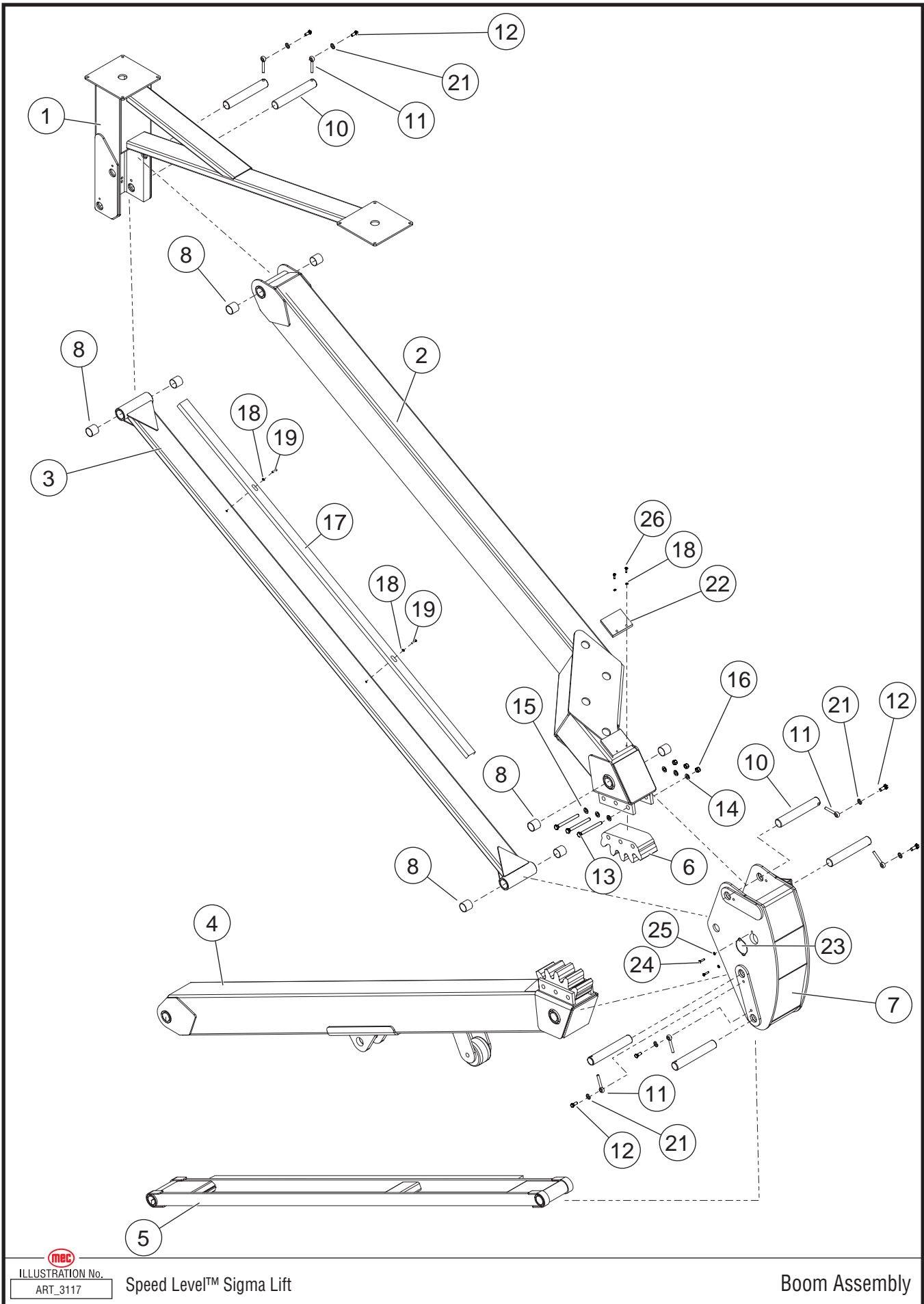


ILLUSTRATION No.  
ART\_3117

Speed Level™ Sigma Lift

Boom Assembly

## Upper Boom Assembly

ITEM	PART NO.	QTY	DESCRIPTION
--	83083	1	3084 -- Upper Boom Assembly
--	83096	1	2684 -- Upper Boom Assembly
1	19068	1	Platform Pivot Weldment
2	19073	1	3084 -- Upper Boom Weldment
	19332	1	2684 -- Upper Boom Weldment
3	19058	1	3084 -- Upper Tension Weldment
	19334	1	2684 -- Upper Tension Weldment
4	REF	1	Lower Boom Weldment (see "Lower Boom Assembly" on Page C-5)
5	REF	1	Lower Tension Weldment (see "Lower Boom Assembly" on Page C-5)
6	19199	1	Gear, Pivot
7	19055	1	Boom Pivot Weldment
8	92011	8	Flange Bearing
9	--	--	--
10	19121	6	Boom Mount Pin
11	18152	6	Pin Retainer
12	50046	6	Bolt, M12 x 35
13	50058	3	Bolt, HHCS 1"-8 x 8", GR8, ZP
14	50063	3	Washer, 1" ZP STD FLAT
15	50064	3	Washer, 1" ZP FLAT XT
16	50120	3	Nut, NNYL 1"-8
17	19158	1	3084 -- Cable Cover
	19436	1	2684 -- Cable Cover
18	50001	4	M8 Washer Standard
19	50048	2	M8 Lock Nut
--	--	--	--
21	50007	6	Split Lock Washer, M12
22	19157	1	Wear Pad
23	19183	1	Grease Port Cover
24	50037	2	Bolt, M12 x 20
25	50003	2	Washer, M12
26	50124	2	Bolt

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

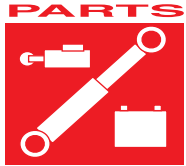
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**NOTES:**

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# SECTION D

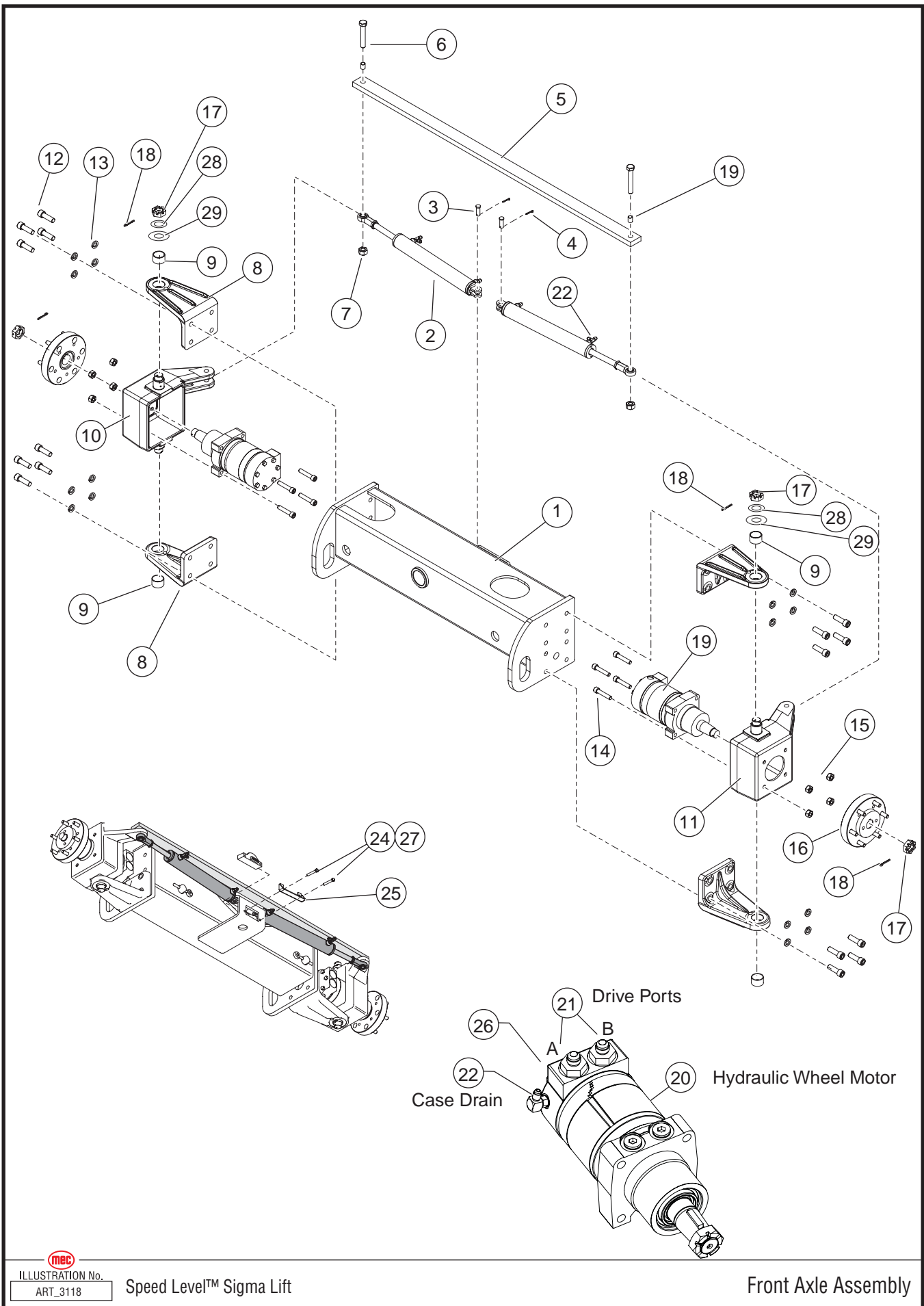
## AXLES

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MEC  
ILLUSTRATION No.  
ART\_3118

Speed Level™ Sigma Lift

Front Axle Assembly

## Front Axle Assembly

ITEM	PART NO.	QTY	DESCRIPTION
-	83084	1	Front Axle Assembly
1	19008	1	Front Axle Weldment
2	91019	2	Cylinder, Steering
	90990	-	Seal Kit, Steer Cylinder (not shown)
3	50172	2	Pin, Clevis, ½ DIA. X 1 3/8" LG
4	50178	2	Pin, Cotter, .12 DIA. X 1" LG
5	19079	1	Rod, Tie Steering
6	50154	2	Screw, 5/8" - 11. 4" LG, GR 5
7	HDW6633	2	Nut, Lock, 5/8" - 11, GR 5
8	40334	4	Mount, Motor W/Bearings
9	9307	4	Bearing, 1.50 x 1.0 DIA
10	40308	1	Mount, Wheel Motor, RH, FRONT
11	40464	1	Mount, Wheel Motor, LH, FRONT
12	50012	16	Screw, M16 X 50, GR 12, Socket Head
13	50008	16	Lock Washer, M16
14	50072	8	Screw, ½"-13, 2.50" LG, GR 8, Socket Head
15	HDW8457	8	Nut, ½"-13, GR8
16	10709	2	Hub
17	HDW8568	6	Nut, 1 1/8" - 18
18	50177	6	Pin, Cotter, .156 DIA. X 1.75" LG
19	7292	2	Bearing
20	7300P	2	Motor, Wheel, Hyd.
21	50659	4	Fitting, MB-MJ-12-8
22	50665	4	Fitting, MB-MJ90-4-4
23	92010	1	CAN Tilt Angle Transducer, (152)
24	50017	2	Screw, M8 x 60
25	19197	1	Guard
26	50645	2	Fitting, MJ-FJX-8-8
27	50048	2	Locknut, M8
28	20312	8	Washer Bearing
29	20311	4	Washer, 2.550 x 1.560

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



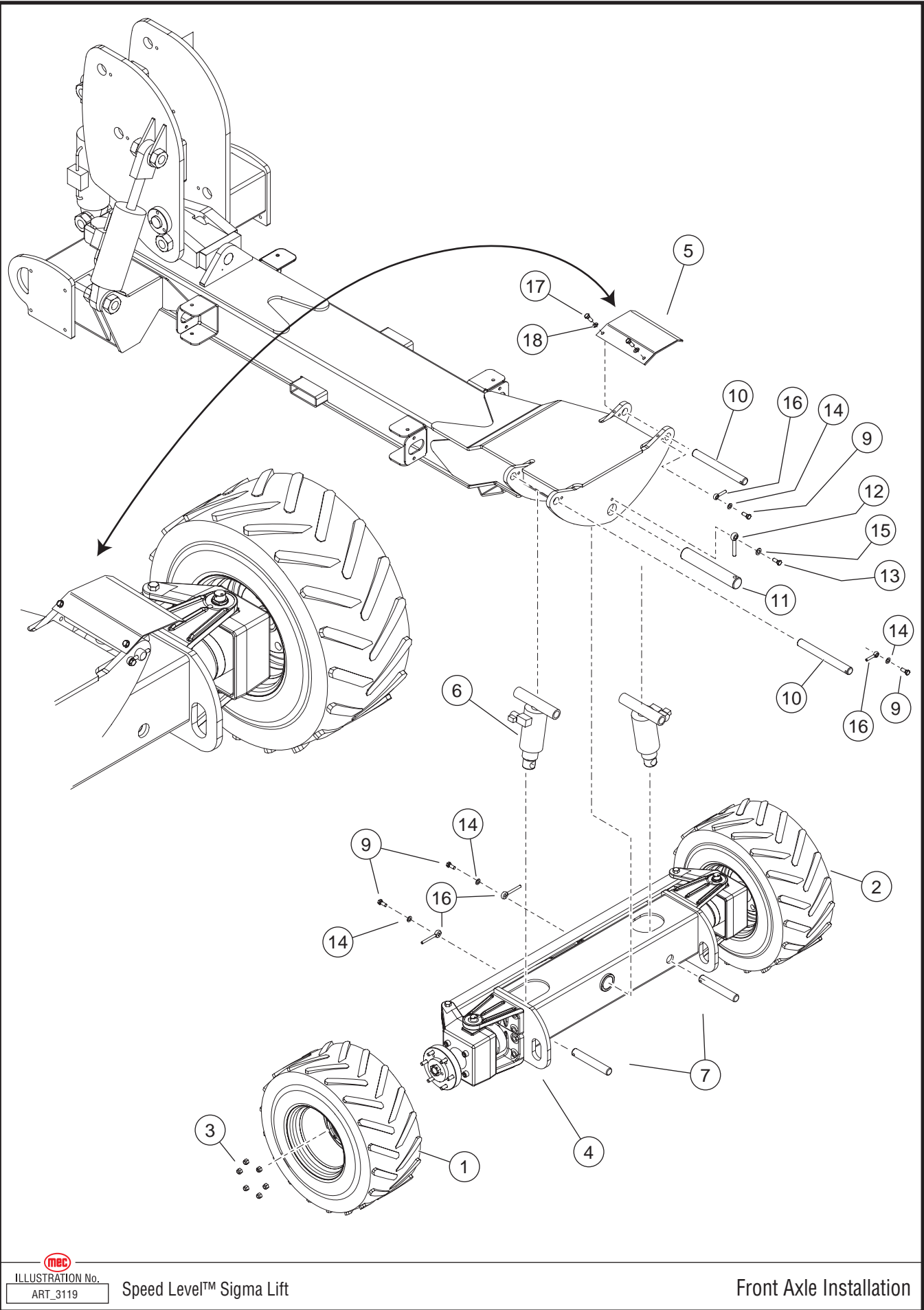


ILLUSTRATION No.  
ART\_3119

Speed Level™ Sigma Lift

Front Axle Installation



## Axle Installation, Front

ITEM	PART NO.	QTY	DESCRIPTION
1	91166	1	Wheel/tire Assy, LH - 10 PLY - PNEUMATIC (ANSI standard)
	91168	1	Wheel/tire Assy, LH - 10 PLY - FOAM (ANSI option) (CE standard)
	91578	1	Wheel/tire Assy, LH - Non-Marking PNEUMATIC (ANSI option)
	91580	1	Wheel/tire Assy, LH - Non-Marking FOAM (ANSI, CE option)
	91581	1	Wheel/tire Assy, LH - Turf PNEUMATIC (ANSI option)
2	91165	1	Wheel/tire Assy, RH - 10 PLY - PNEUMATIC (ANSI standard)
	91167	1	Wheel/tire Assy, RH - 10 PLY - FOAM (ANSI option) (CE standard)
	91577	1	Wheel/tire Assy, RH - Non-Marking PNEUMATIC (ANSI option)
	91579		Wheel/tire Assy, RH - Non-Marking FOAM (ANSI, CE option)
	91581	1	Wheel/tire Assy, RH - Turf PNEUMATIC (ANSI option)
incl	91180	-	Wheel (service)
incl	91181	-	Tire 26x12.00-380 (service)
3	50165	12	Nut, Lug, ½" - 20, GR 5
4	REF		Front Axle Assembly
5	19162	2	Cover
6	19087	2	Cylinder, Axle Lock
7	18074	2	Pin, Ø1.25"
8	--	--	--
9	50033	4	Bolt, M10 x 25
10	19119	2	Pin, Ø1.25
11	19120	1	Pin, Ø7.0
12	18152	1	Pin Retainer, 0.5 x 3.80
13	50039	1	Bolt, M12 x 30
14	50006	4	Lock Washer, M12
15	50007	1	Lock Washer, M10
16	18151	4	Pin Retainer, .375 x 3.75
17	50027	4	Bolt, M6 x 10
18	50068	4	Washer, M6 Flat

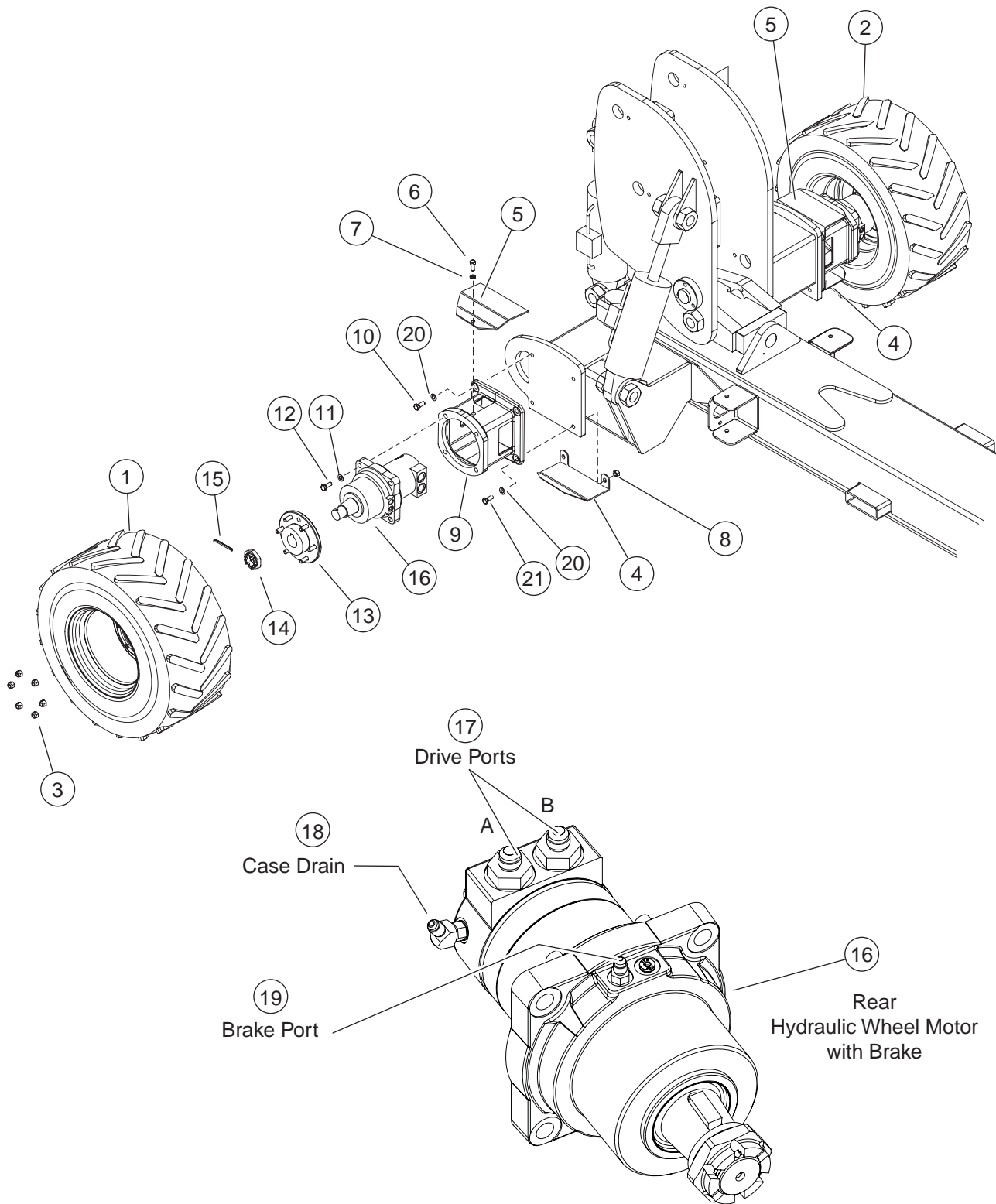
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• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only





**meb**  
 ILLUSTRATION No.  
 ART\_3120

Speed Level™ Sigma Lift

Rear Axle Installation

## Axle Installation, Rear

ITEM	PART NO.	QTY	DESCRIPTION
1	91166	1	Wheel/tire Assy, LH - 10 PLY - PNEUMATIC (ANSI standard)
	91168	1	Wheel/tire Assy, LH - 10 PLY - FOAM (ANSI option) (CE standard)
	91578	1	Wheel/tire Assy, LH - Non-Marking PNEUMATIC (ANSI option)
	91580	1	Wheel/tire Assy, LH - Non-Marking FOAM (ANSI, CE option)
	91581	1	Wheel/tire Assy, LH - Turf PNEUMATIC (ANSI option)
2	91165	1	Wheel/tire Assy, RH - 10 PLY - PNEUMATIC (ANSI standard)
	91167	1	Wheel/tire Assy, RH - 10 PLY - FOAM (ANSI option) (CE standard)
	91577	1	Wheel/tire Assy, RH - Non-Marking PNEUMATIC (ANSI option)
	91579		Wheel/tire Assy, RH - Non-Marking FOAM (ANSI, CE option)
	91581	1	Wheel/tire Assy, RH - Turf PNEUMATIC (ANSI option)
incl	91180	-	Wheel (service)
incl	91181	-	Tire 26x12.00-380 (service)
3	50165	12	Nut, Lug, ½" - 20, GR 5
4	16349	2	Bottom Hose Cover
5	19168	2	Top Hose Cover
6	50010	2	Screw, M8 x 25
7	50001	2	Washer, Lock, M8
8	50051	4	Nut, M16
9	40258	2	Mount, Motor, Rear Axle, Machined
10	50043	8	Bolt, M16 x 40
11	50253	8	Washer, Lock, 5/8
12	50151	8	Screw, 5/8"-11, 2.25" LG, GR 5
13	14773	2	Hub
14	HDW9037	-	Nut, Castle, M42 X 3 (service)
15	50170	2	Pin, Cotter, .250 DIA. X 3" LG
16	91319	2	Wheel Motor, Hyd W/brake
17	50659	4	Fitting, MB-MJ-12-8
18	50646	2	Fitting, MB-MJL-4-4
19	50647	2	Fitting, MB-MJ90L-4-4
20	50008	8	Washer, Lock, M16
21	50044	8	Bolt, M16 x 60 G10.9

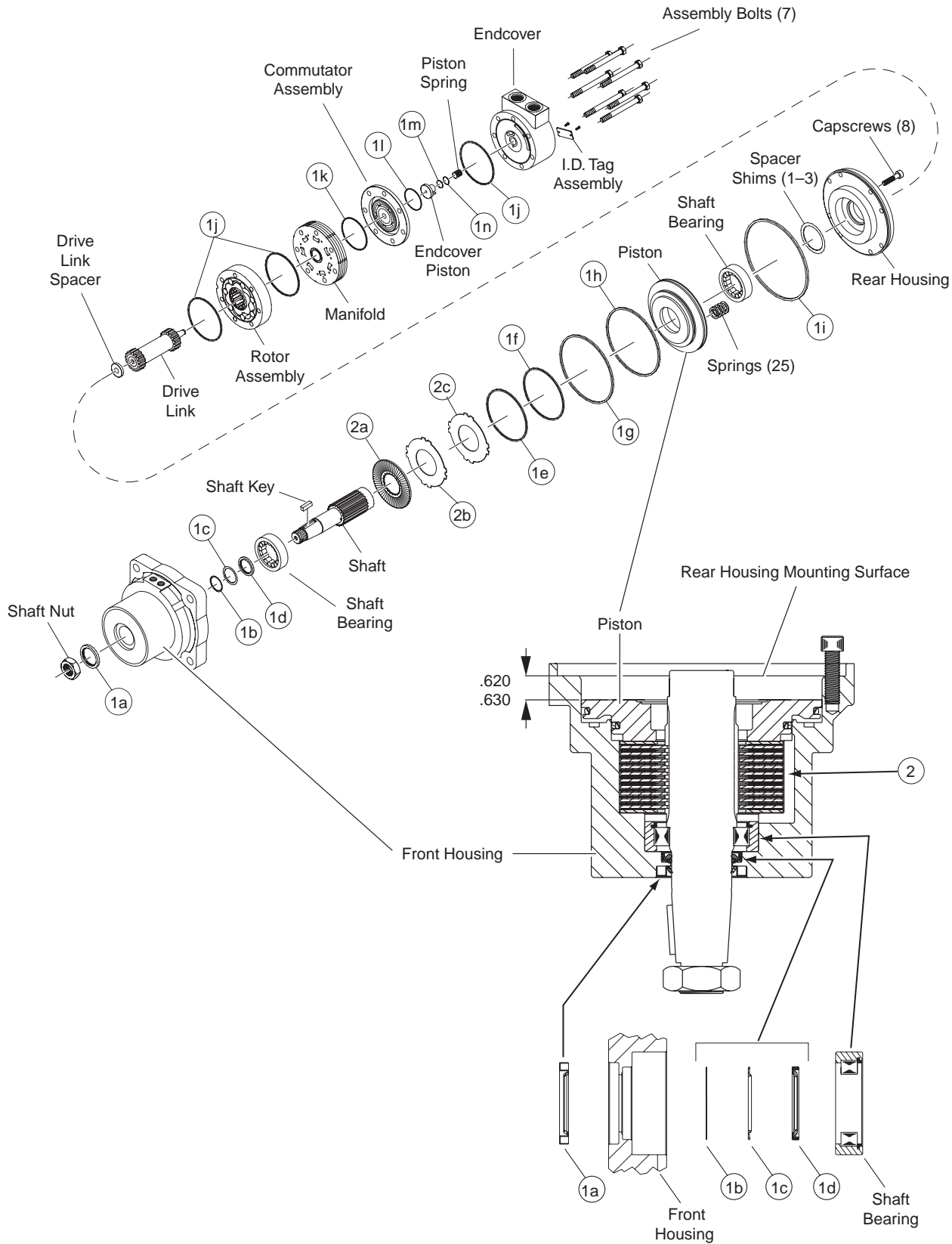
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• NS: Not a Stock item

• REF: Reference only





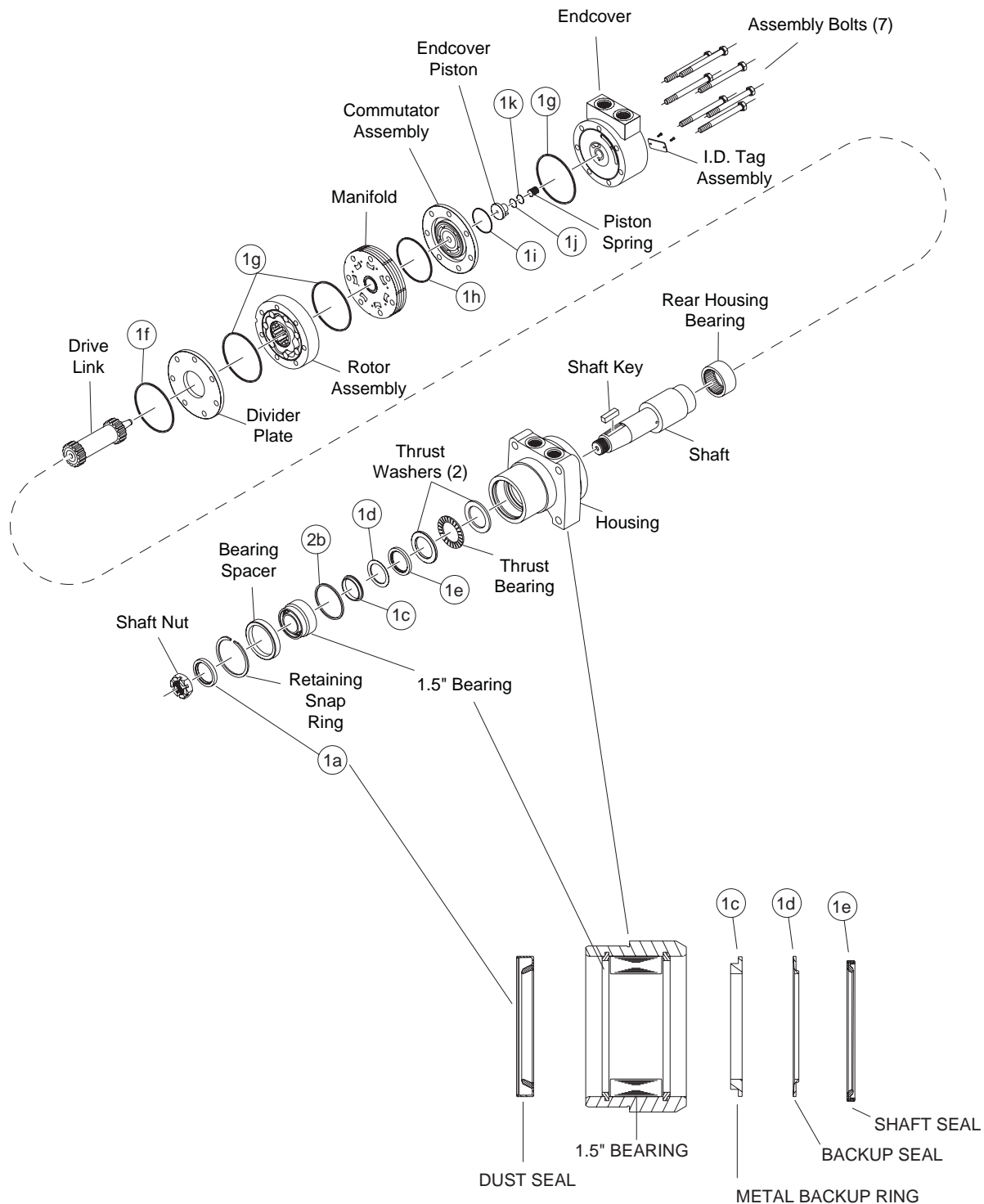
MEC  
ILLUSTRATION No.  
ART\_2397 R2

DT710 BRAKE MOTOR COMPONENTS

Wheel Motor, Rear

## Wheel Motor, Rear

ITEM	PART NO.	QTY	DESCRIPTION
–	91319	–	Wheel Motor W/brake
1	9781	–	Seal Kit
1a	incl	1	Dust Seal
1b	incl	1	Metal Backup Shim
1c	incl	1	Backup Seal
1d	incl	1	Shaft Seal
1e	incl	1	Small Piston O-ring Seal
1f	incl	1	Small Piston Seal
1g	incl	1	Large Piston O-ring Seal
1h	incl	1	Large Piston Seal
1i	incl	1	O-ring Seal
1j	incl	3	Body Seal
1k	incl	1	Manifold Seal
1l	incl	1	Commutator Seal
1m	incl	1	O-ring Seal
1n	incl	1	Backup Seal
–	–	–	–
2	91138	–	Disk Kit
2a	incl	10	Friction Disk
2b	incl	9	Disk Stamping
2c	incl	2	Thick Disk Stamping



## Wheel Motor, Front

ITEM	PART NO.	QTY	DESCRIPTION
–	7300P	–	Motor Wheel Hyd Painted
1	90592	–	Seal Kit
1a	incl	1	Dust Seal
1b	incl	1	High Pressure Seal
1c	incl	1	Metal Backup Shim
1d	incl	1	Teflon Back Up Seal
1e	incl	1	Shaft Seal
1f	incl	1	Housing Seal
1g	incl	3	Body Seals
1h	incl	1	Manifold Seal
1i	incl	1	Commutator Seal
1j	incl	1	O-ring Seal
1k	incl	1	Teflon Backup Seal

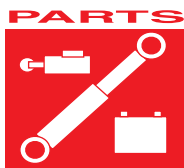


**NOTES:**

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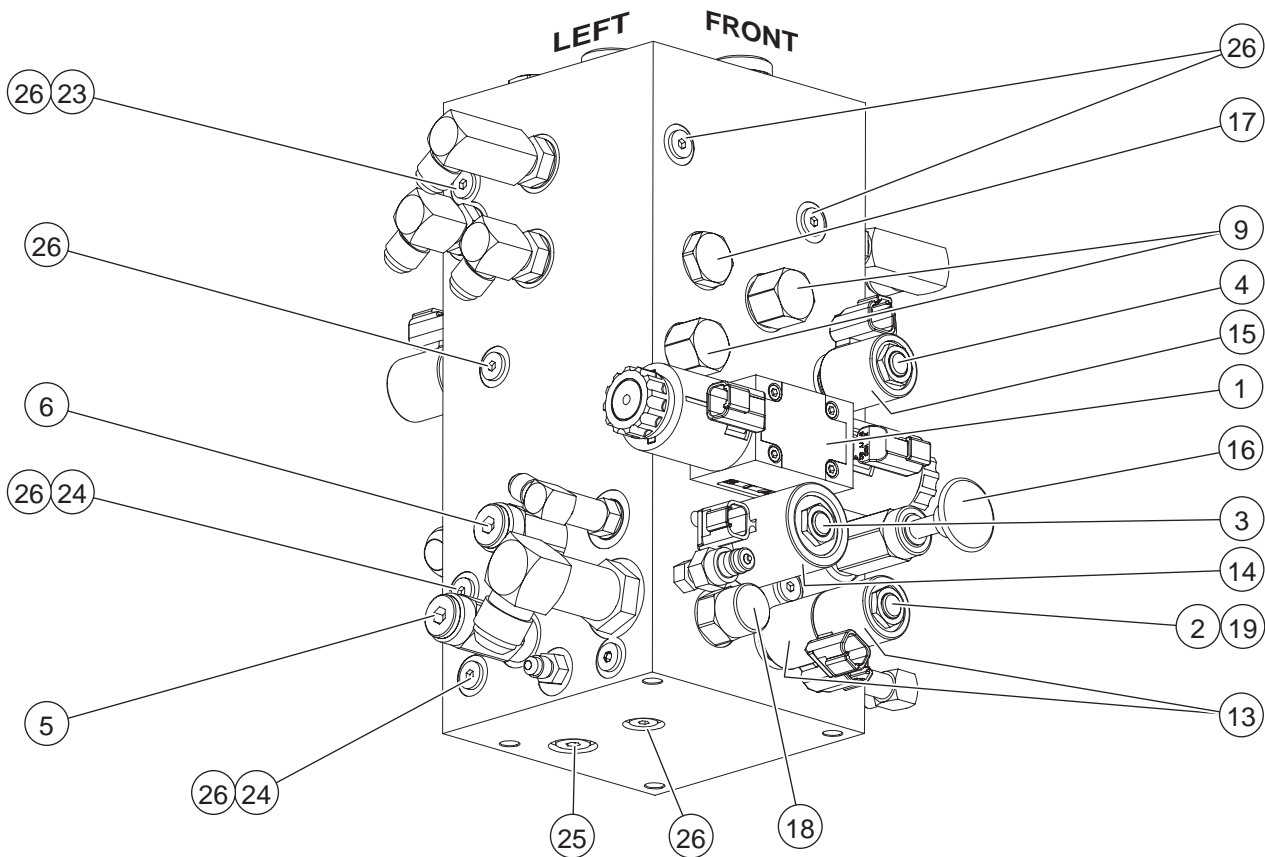
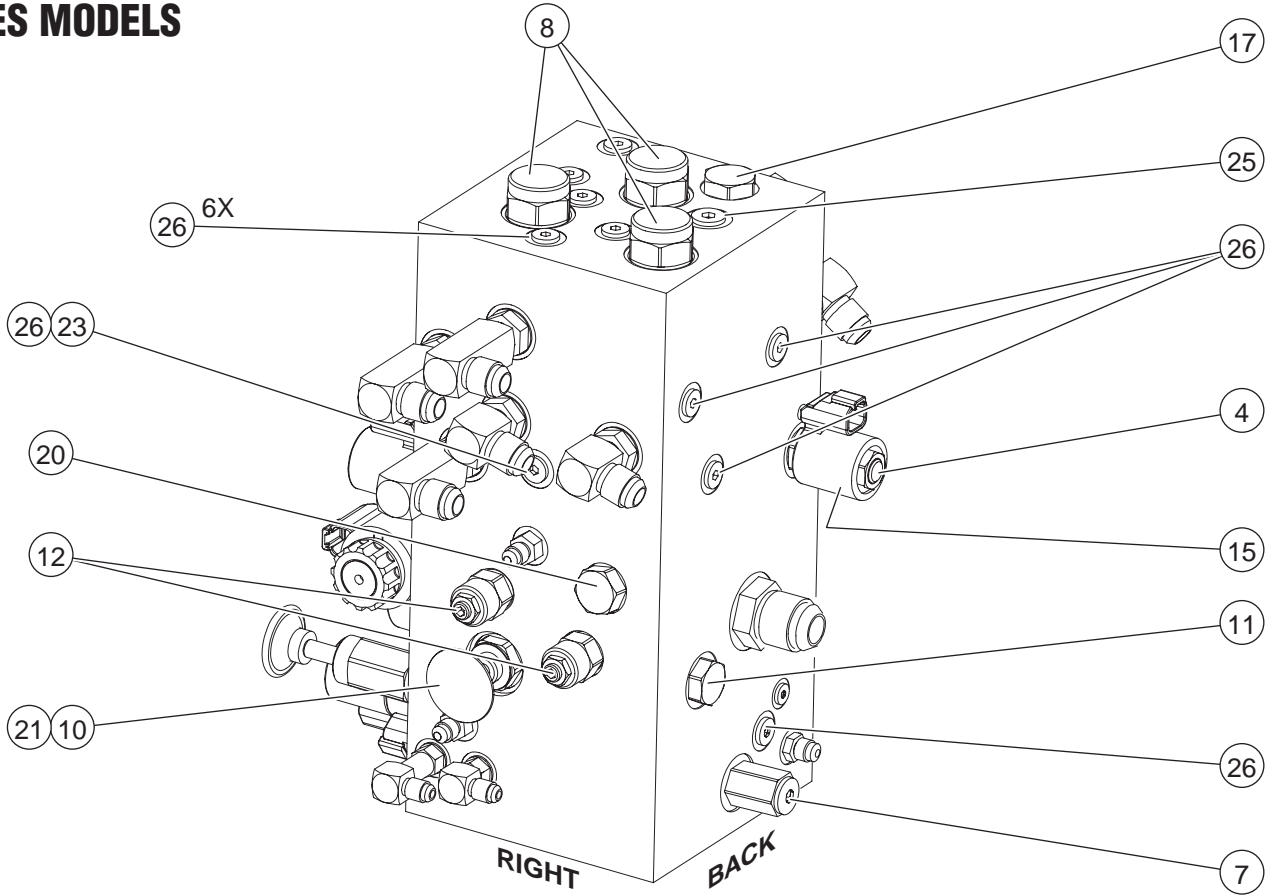
# SECTION E

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# ES MODELS



**mecc**  
ILLUSTRATION No.  
ART\_3170

Sheet 1 of 2

ES Manifold Assembly

## Main Manifold Assembly, Electric Models

ITEM	PART NO.	QTY	DESCRIPTION
–	83072	–	Manifold Assembly, ES Models
--	91743	--	Manifold w/ valves, no fittings, ES Models
1	91144	1	Valve, Drive, 4 way 3 Position
2	91146	1	Valve, Steer, 4 Way 3 Position
3	91145	1	Valve, Lift Spool, 3 Way
4	91147	2	Valve, Series Parallel Spool, 4 way 3 position
5	91150	1	Valve, Relief, Steer
6	91149	1	Valve, Relief, Lift
7	91476	1	Valve, Relief,
8	91151	3	Valve, Piloted Spool 4 way 3 position
9	91152	2	Valve, Piloted Poppet
10	91012	1	Valve, Manual — Pull
11	91153	1	Valve, Load Shuttle Check
12	91350	2	Valve, Counterbalance
13	91141	2	Coil, Series 8, 12V
14	91142	1	Coil, Series 10, 12V
15	91141	2	Coil, Series
16	91015	1	Hand Pump, Brake Release
17	91351	2	Flow Divider / Combiner
18	91352	1	Pressure Compensator
19	91141	1	Coil
20	REF	1	Cavity Plug
21	91354	1	Orifice Disc
22	91355	1	Orifice Plug, Steer
23	91356	2	Orifice Plug, Flow Divider Bleed
24	REF	2	Orifice Plug
25	7484	2	Port Plug M 0.38" O-Ring, RBG-6
26	HDW7314	19	Port Plug M ¼", O-Ring, RBG-4

... continued

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# ES MODELS

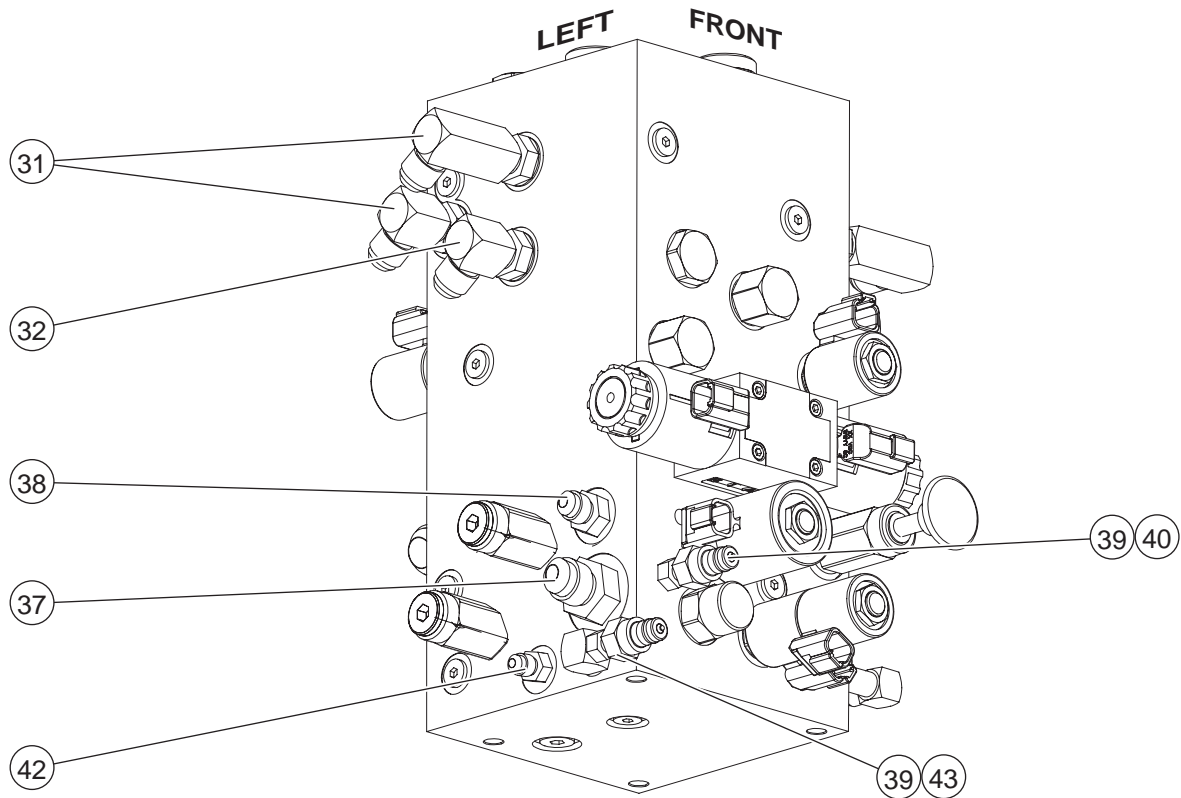
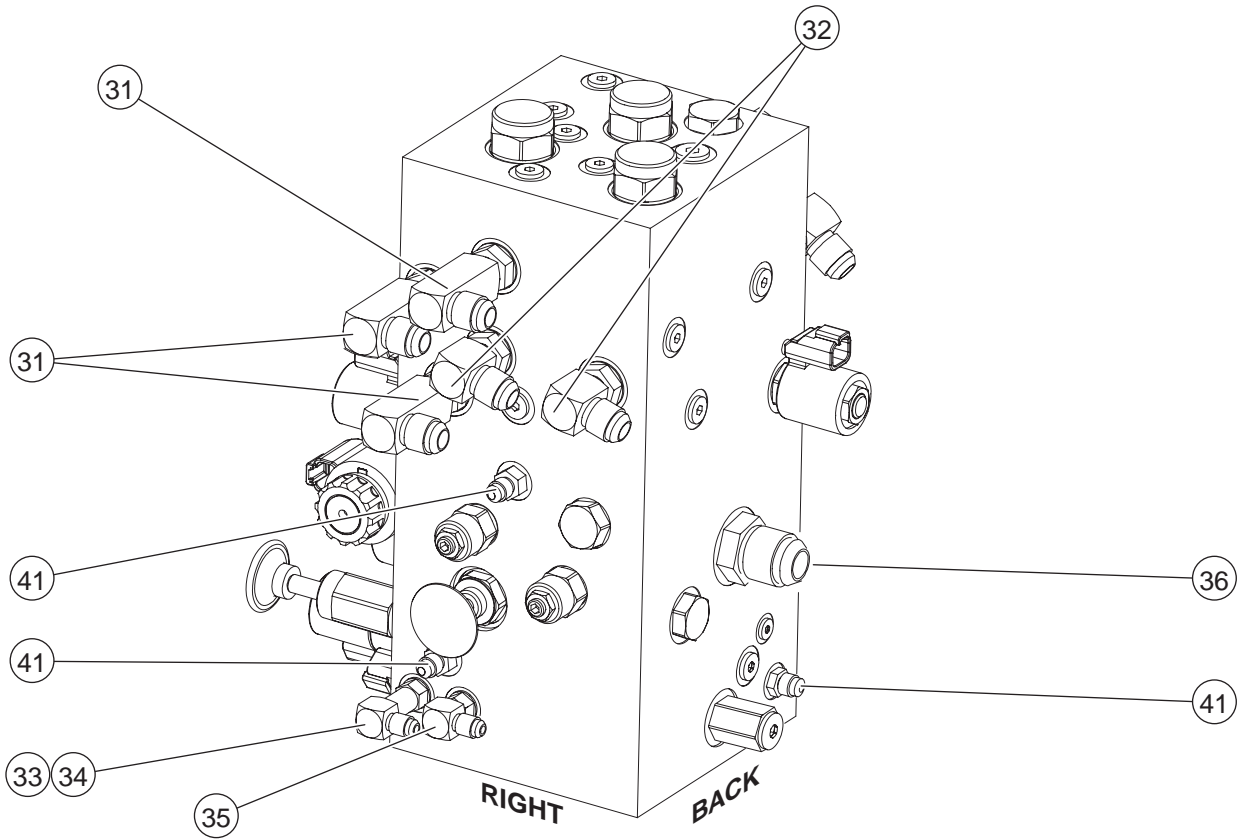


  
ILLUSTRATION No.  
ART\_3171

Sheet 2 of 2

ES Manifold Assembly

## Main Manifold Assembly, Electric Models (continued)

ITEM	PART NO.	QTY	DESCRIPTION
31	50796	4	Elbow, 90°, Male, ½", O-Ring, Male, ½", MB-MJ90LL-8-8
32	50792	4	Elbow, 90°, Male, ½", O-Ring, Male, ½", MB-MJ90-8-8
33	50770	1	Fitting, Orifice 1/16" (Electric only)
34	50794	1	ELBOW, 90°, Male ¼" O-ring, Male ¼", MB-MJ90LL-4-4
35	50647	1	ELBOW, 90°, Male ¼" O-ring, Male ¼", MB-MJ90L-4-4
36	50763	1	Fitting, Male ¾" O-ring, Male ¾", MB-MJ-12-12
37	50659	1	Fitting, Male ¾" O-ring, Male ¾", MB-MJ-12-8
38	50799	1	Fitting, Male .37 JIC, Male .37 O-RING, MB-MJL-8-6
39	HDW7971	2	Fitting, Male Disconnect, ¼" NPT
40	50950	1	Adapter Male ¼" O-ring Male ¼" NTP, MP-MB-4-4
41	50769	3	Adapter, Male ¼", O-ring, Male ¼" 37° MB-MJ-4-4
42	50775	1	Adapter, Male ¼", O-ring, Male ¼" MB-MJ-6-4
43	50952	1	Elbow, 90°, MP-MB90-4-4
44	50960	2	Port Plug, MB-06-Plug

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# RT MODELS

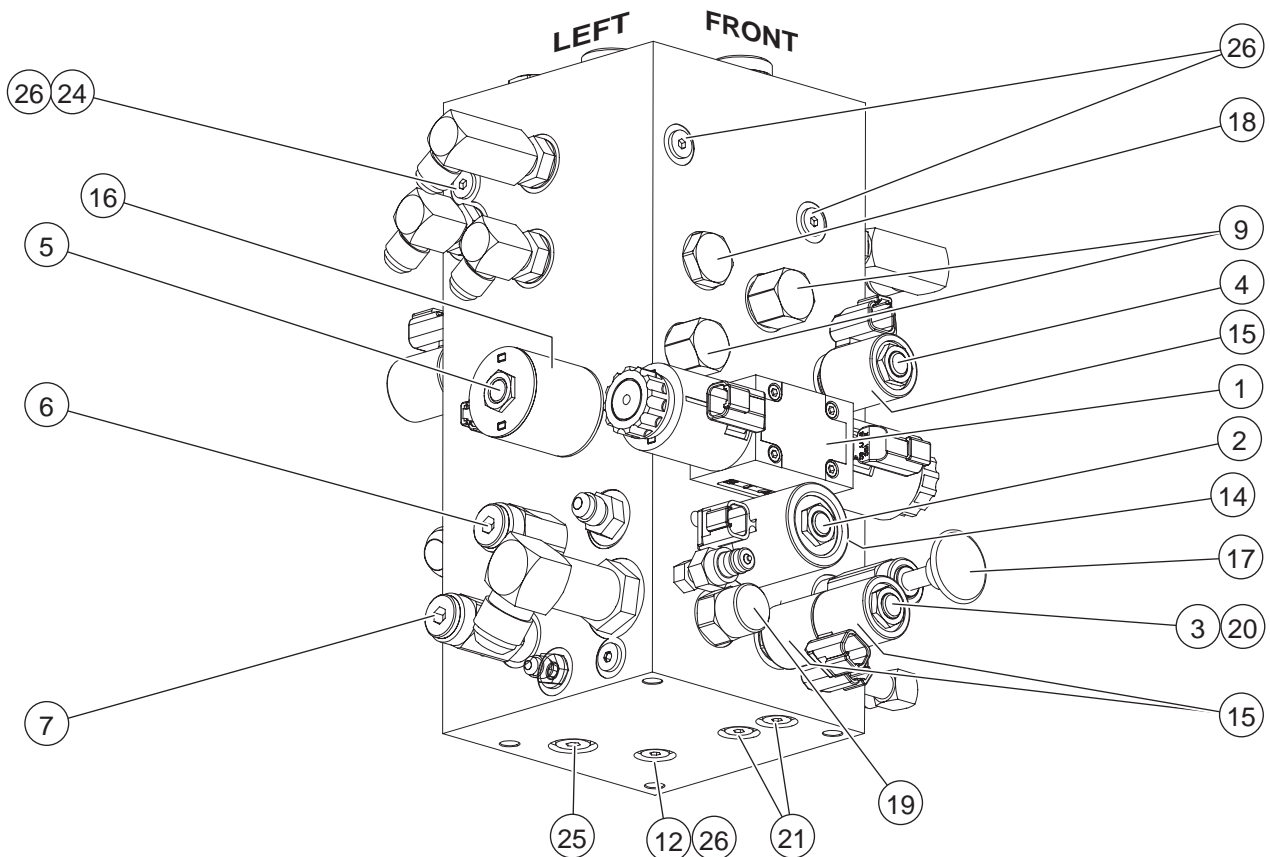
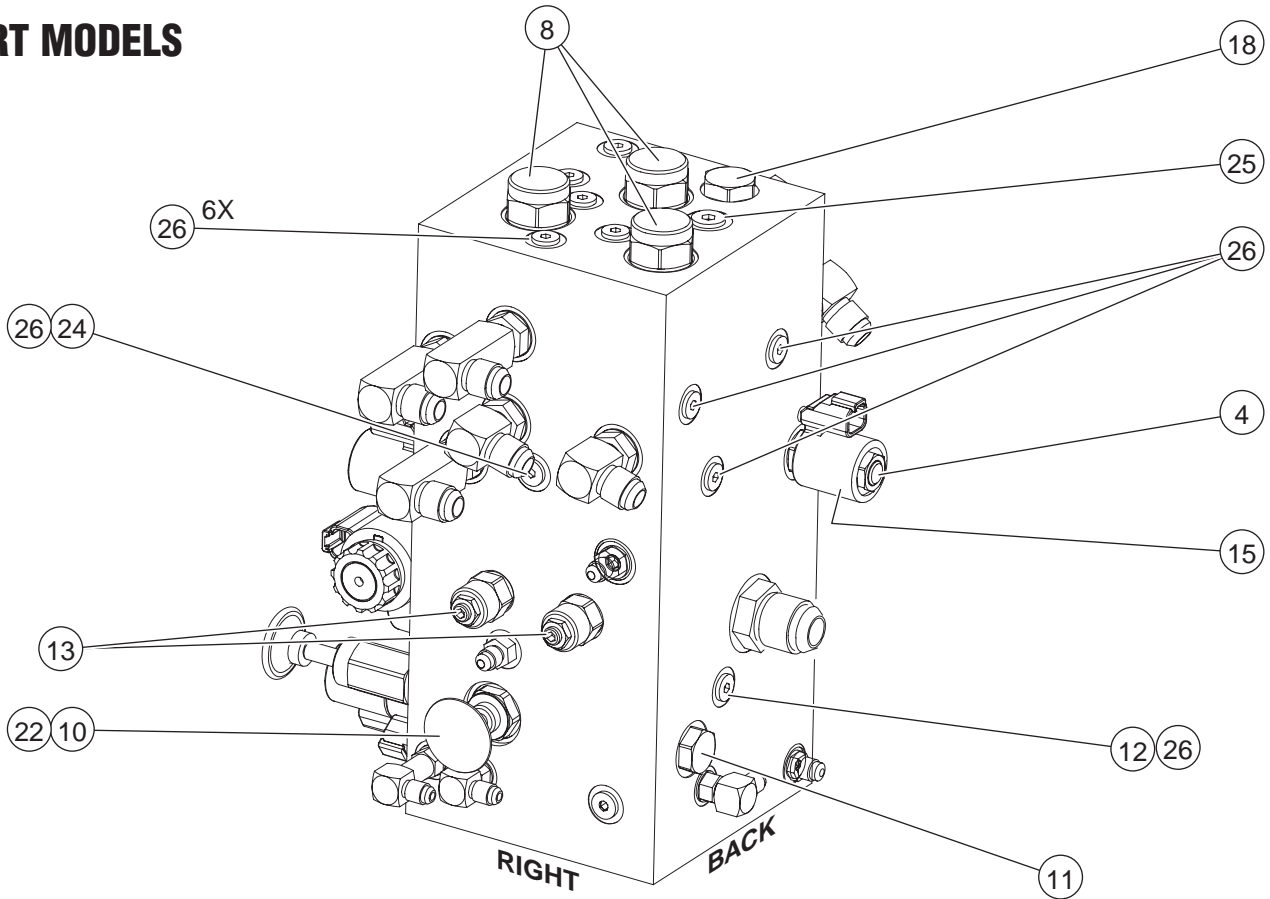


ILLUSTRATION No.  
ART\_3172

Sheet 1 of 2

RT Manifold Assembly

## Main Manifold Assembly, RT Models

ITEM	PART NO.	QTY	DESCRIPTION
–	83071	–	Manifold Assembly, RT Models
--	91140	--	Manifold w/ valves, no fittings, RT Models
1	91144	1	Valve, Drive, 4 way 3 Position
2	91145	1	Valve, Lift Spool, 3 Way
3	91146	1	Valve, Steer, 4 Way 3 Position
4	91147	2	Valve, Series Parallel Spool, 4 way 3 position
5	91148	1	Valve, Proportional
6	91149	1	Valve, Relief, Lift
7	91150	1	Valve, Relief, Steer
8	91151	3	Valve, Piloted Spool 4 way 3 position
9	91152	2	Valve, Piloted Poppet
10	91012	1	Valve, Manual — Pull
11	91153	1	Valve, Load Shuttle Check
12	91154	2	Valve, Load Shuttle Check
13	91350	2	Valve, Counterbalance
14	91142	1	Coil, Series 10, 12V
15	91142	1	Coil, Series 10, 12V
16	91142	1	Coil, Series 10, 12V
17	91015	1	Hand Pump, Brake Release
18	91351	2	Flow Divider / Combiner
19	91352	1	Pressure Compensator
20	91141	2	Coil, Series 8, 12V
21	91353	2	Valve, Check
22	91354	1	Orifice Disc
23	--	--	--
24	91356	2	Orifice Plug, Flow Divider Bleed
25	7484	2	Port Plug M 0.38" O-Ring, RBG-6
26	HDW7314	20	Port Plug M ¼", O-Ring, RBG-4

... continued

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# RT MODELS

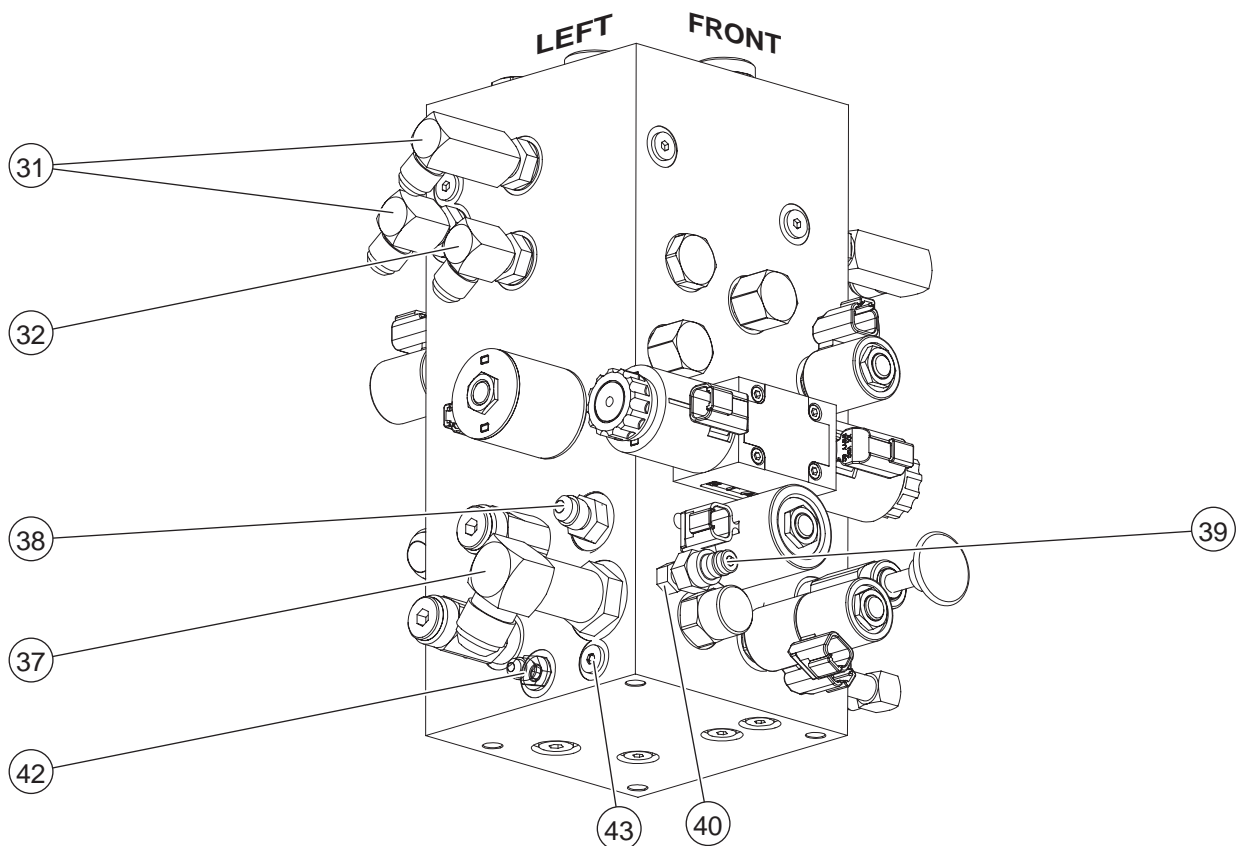
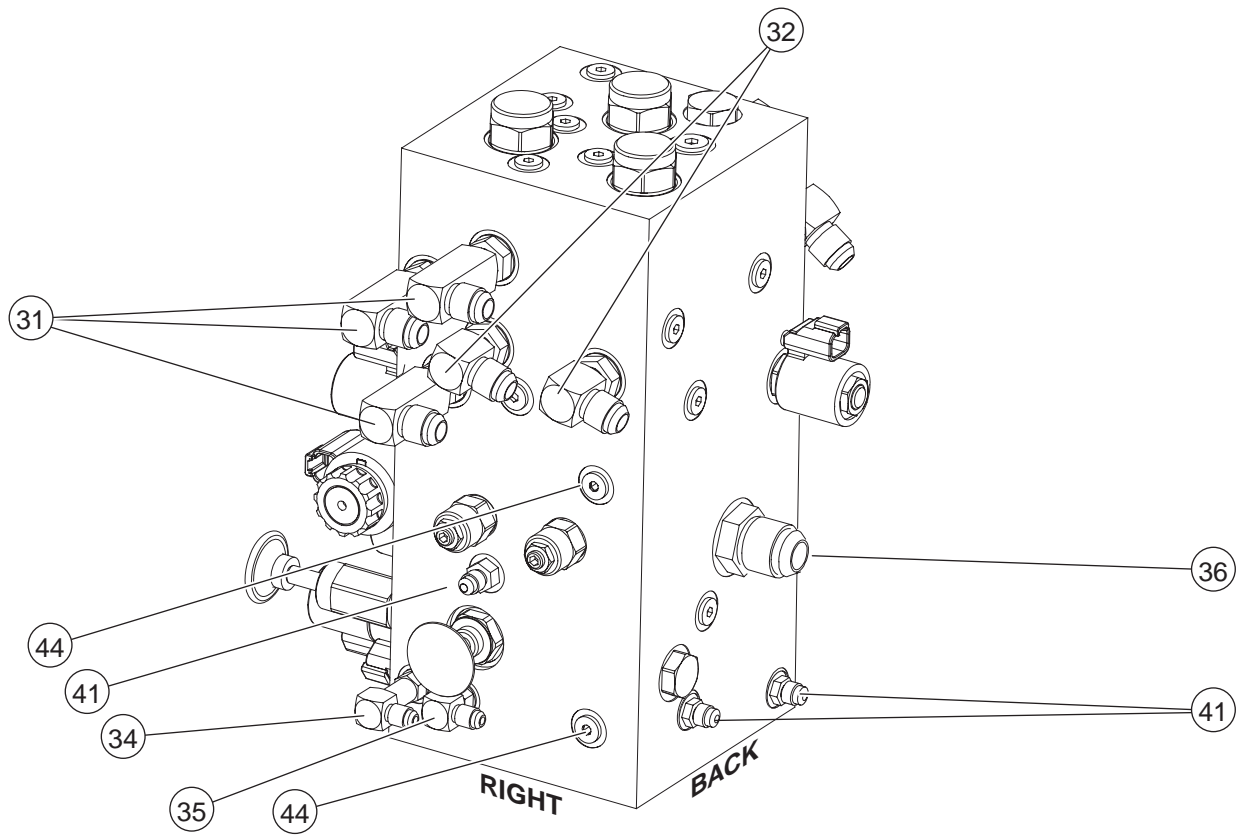


  
ILLUSTRATION No.  
ART\_3173

Sheet 2 of 2

RT Manifold Assembly



## Main Manifold Assembly, RT Models (continued)

ITEM	PART NO.	QTY	DESCRIPTION
31	50796	4	Elbow, 90°, Male, ½", O-Ring, Male, ½", MB-MJ90LL-8-8
32	50792	4	Elbow, 90°, Male, ½", O-Ring, Male, ½", MB-MJ90-8-8
33	--	--	--
34	50794	1	ELBOW, 90°, Male ¼" O-ring, Male ¼", MB-MJ90LL-4-4
35	50647	1	ELBOW, 90°, Male ¼" O-ring, Male ¼", MB-MJ90L-4-4
36	50763	1	ELBOW, 90°, Male ¾" O-ring, Male ¾", MB-MJ-12-12
37	50821	1	ELBOW, 90°, Male ¾" O-ring, Male ¾", MB-MJ90LL-12-12
38	50658	1	Fitting, Male .37 JIC, Male .37 O-RING, MB-MJL-6-6
39	HDW7971	1	Fitting, Male Disconnect, ¼" NPT
40	50950	1	Adapter Male ¼" O-ring Male ¼" NTP, MP-MB-4-4
41	50769	3	Adapter, Male ¼", O-ring, Male ¼" 37° MB-MJ-4-4
42	50775	1	Adapter, Male ¼", O-ring, Male ¼" MB-MJ-6-4
43	50961	1	Port Plug, MB-04-Plug
44	50960	2	Port Plug, MB-06-Plug

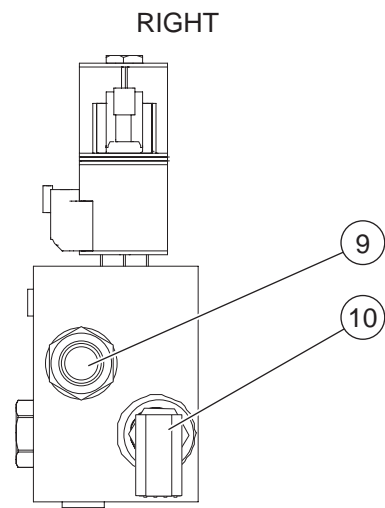
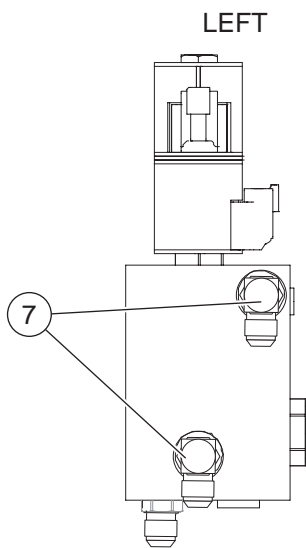
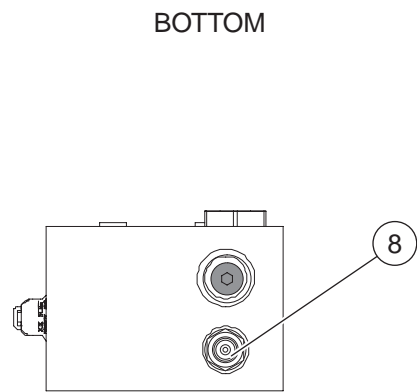
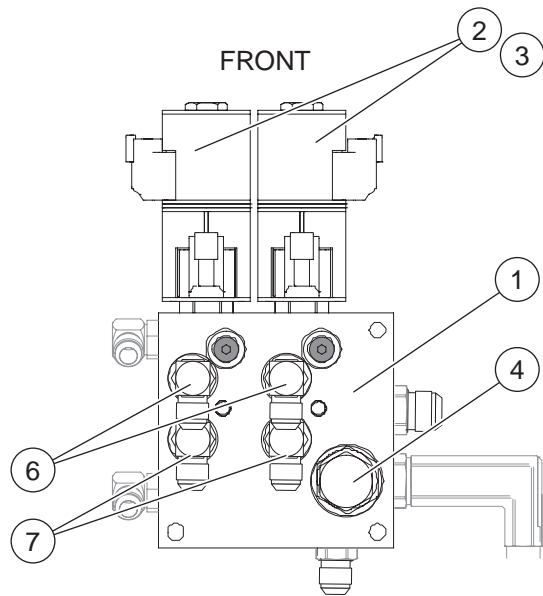
• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only





## Leveling Manifold Assembly

ITEM	PART NO.	QTY	DESCRIPTION
--	83093	1	Leveling Manifold Assembly w/ Fittings
1	19300	1	Leveling Manifold Assembly w/o Fittings
2	92123	2	Valve
3	91143	2	Coil
4	91473	1	Check Valve
5	--	--	--
6	50661	2	Fitting, MB-MJ-90LL-6-4 (MB-MJ-90-4-4
7	50660	4	Fitting, MB-MJ-90-6-4
8	50775	1	MB-MJ-6-4
9	50763	1	MB-MJ-12-12
10	50821	1	MB-MJ-90LL-12-12

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# RT MODELS

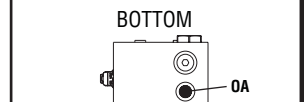
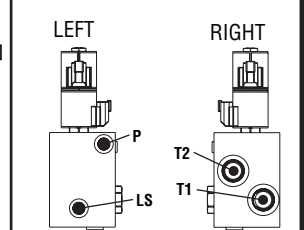
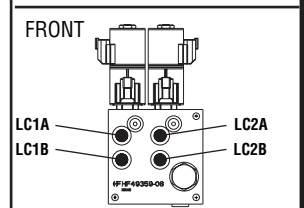
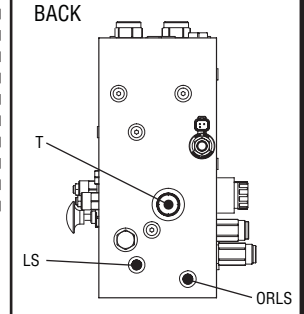
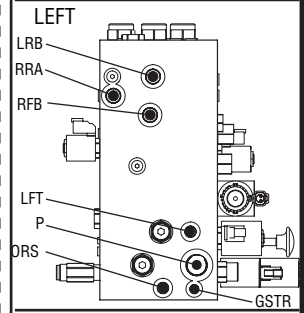
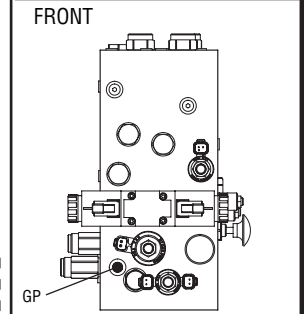
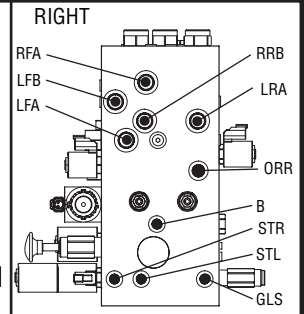
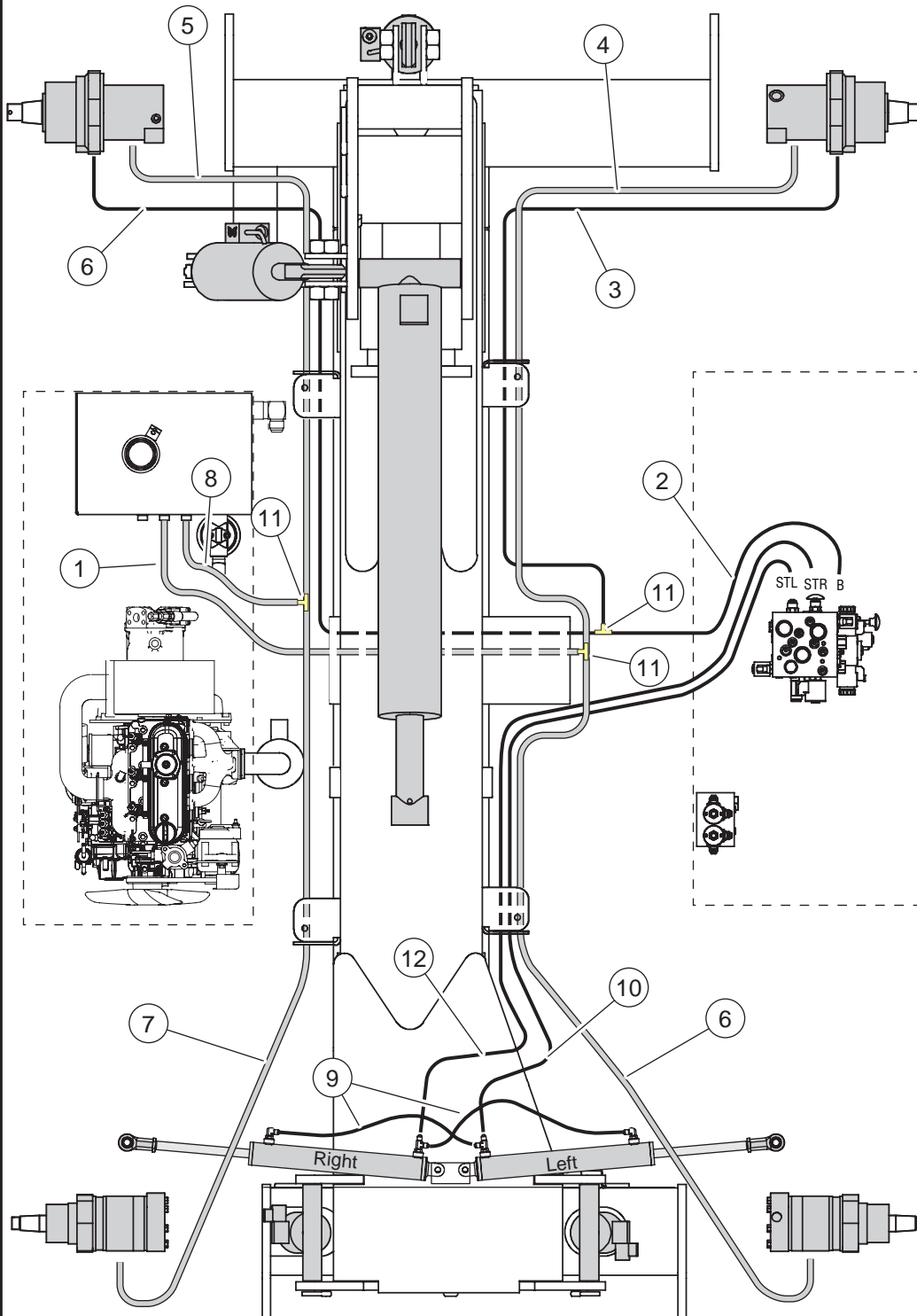


 ILLUSTRATION No. ART\_3199 Speed Level™ Sigma Lift

Hydraulic Hose Routing: Steer, Brake, Case Drain

## Hydraulic Hose Routing, RT Models: Steer, Brake, Case Drain

ITEM	PART NO.	QTY	DESCRIPTION
1	19340	1	Hose Assy, 1/4" x 65", 4G4FJX-4G4FJX
2	19358	1	Hose Assy, 1/4" x 15", 4G4FJX-4G4FJX90S
3	19359	1	Hose Assy, 1/4" x 86", 4G4FJX-4G4FJX90S
4	19361	1	Hose Assy, 1/4" x 73", 4G4FJX-4G4FJX90S
5	19362	1	Hose Assy, 1/4" x 52", 4G4FJX-4G4FJX90S
6	19363	2	Hose Assy, 1/4" x 89", 4G4FJX-4G4FJX
7	19364	1	Hose Assy, 1/4" x 77", 4G4FJX-4G4FJX
8	19365	1	Hose Assy, 1/4" x 38", 4G4FJX-4G4FJX
9	90316	2	Hose Assy, 1/4" x 21", 4G4FJX-4G4FJX
10	19364	1	Hose, Lt Steer Cyl, 1/4" x 77", 4G4FJX-4G4FJX
11	50927	3	Tee, MJT-04
12	19359	1	Hose, Rt Steer Cyl, 1/4" x 86", 4G4FJX-4G4FJX90S

• as req: as required

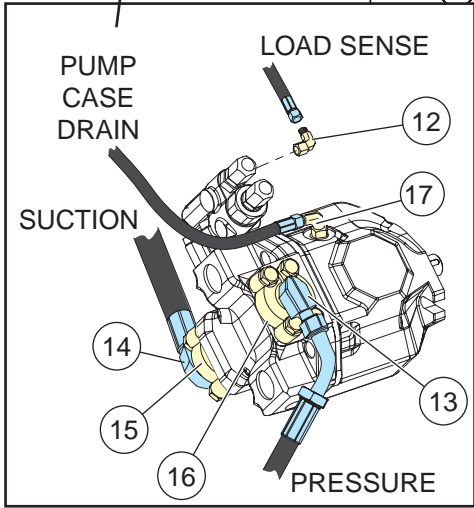
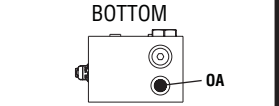
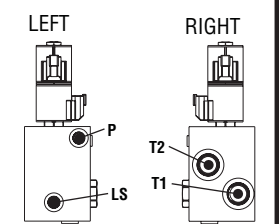
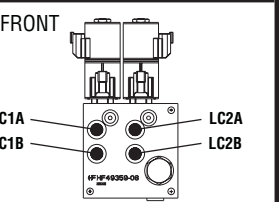
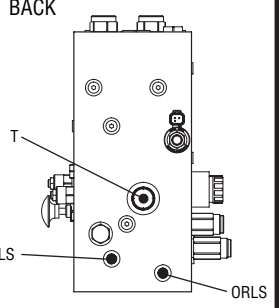
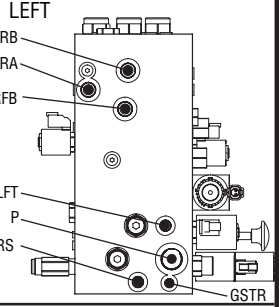
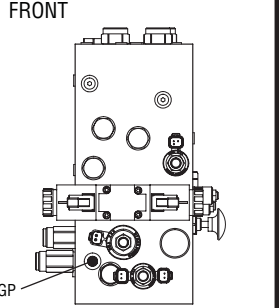
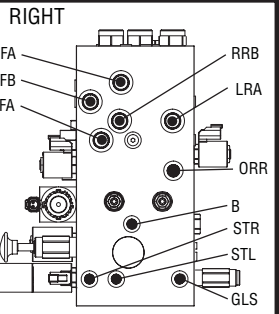
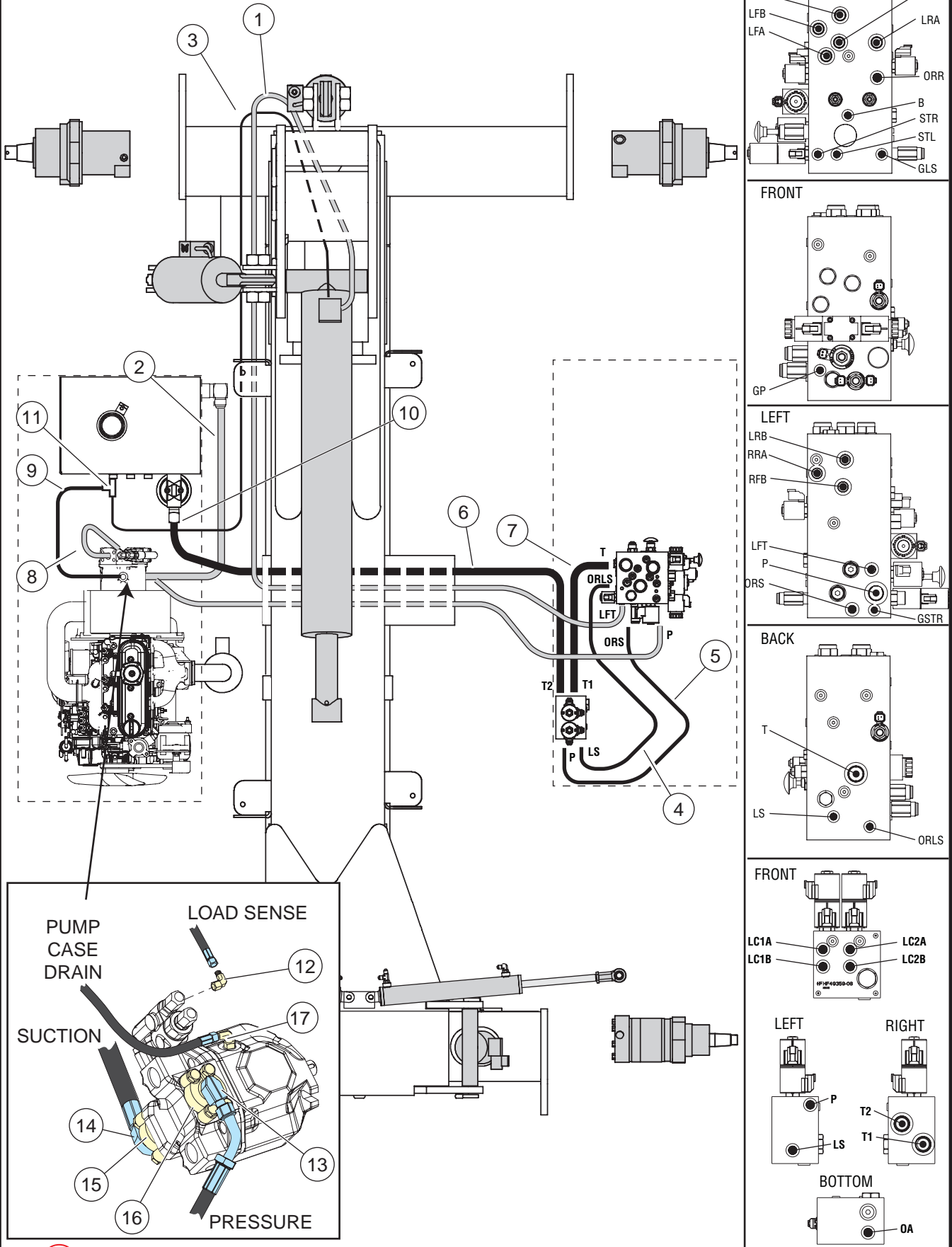
• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# RT MODELS



MEC  
ILLUSTRATION No.  
ART\_3200

Speed Level™ Sigma Lift

Hydraulic Hose Routing: Lift and Pump

## Hydraulic Hose Routing, RT Models: Lift, Pump

ITEM	PART NO.	QTY	DESCRIPTION
1	19341	1	Hose Assy, 3/8" x 132", 6G6FJX90S-6G6FJX
2	91265	1	Hose Assy, 1" x 22", 16G16FJX-16G16FJX
3	19342	1	Hose Assy, 3/8" x 118", 6G6FJX-6G6FJX
4	19369	1	Hose Assy, 1/4" x 28", 4G4FJX-4G4FJX45
5	19370	1	Hose Assy, 1/4" x 33", 4G4FJX-4G4FJX90S
6	19343	1	Hose Assy, 3/4" x 90", 12G12FJX-12G12FJX90S
7	19347	1	Hose Assy, 3/4" x 21", 12G12FJX-12G12FJX90S
8	91423	1	Hose Assy, 3/4" X 82", 12M3K-12FJX-12FJX45
9	90276	1	Hose Assy, 1/4" X 24", 4G1-4FJX-6FJX-24
10	50916	2	Fitting, MP-MJ 90
11	50892	1	Tee, MJ-FJX-MJT-4
12	50665	1	Fitting, MB-MJ-90-4-4
13	91163	1	Adapter 3/4" Flange, Male 1" JIC 90
14	HDW91176	1	Adapter 1" Flange, Male 1" JIC
15	91161	1	Flange Kit #16
16	91162	1	Flange Kit #12
17	50660	1	Fitting, MB-MJ-90-6-4

• as req: as required

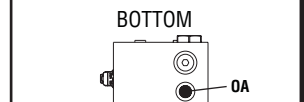
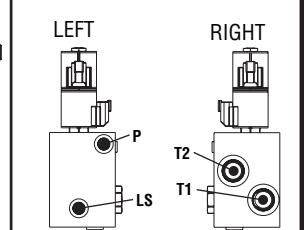
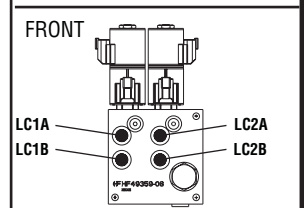
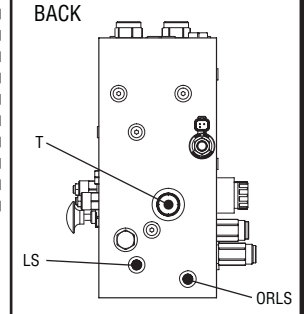
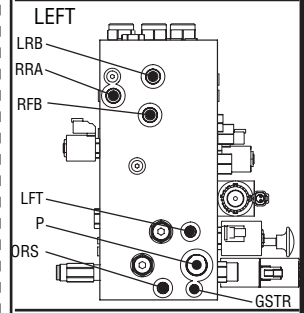
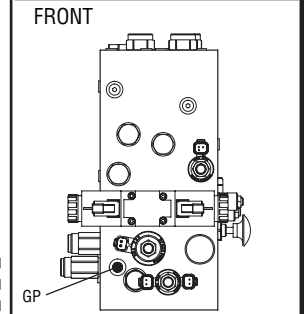
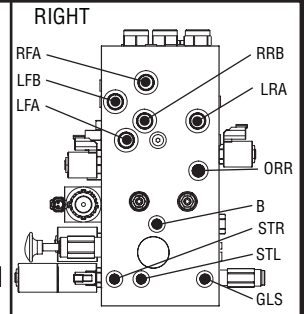
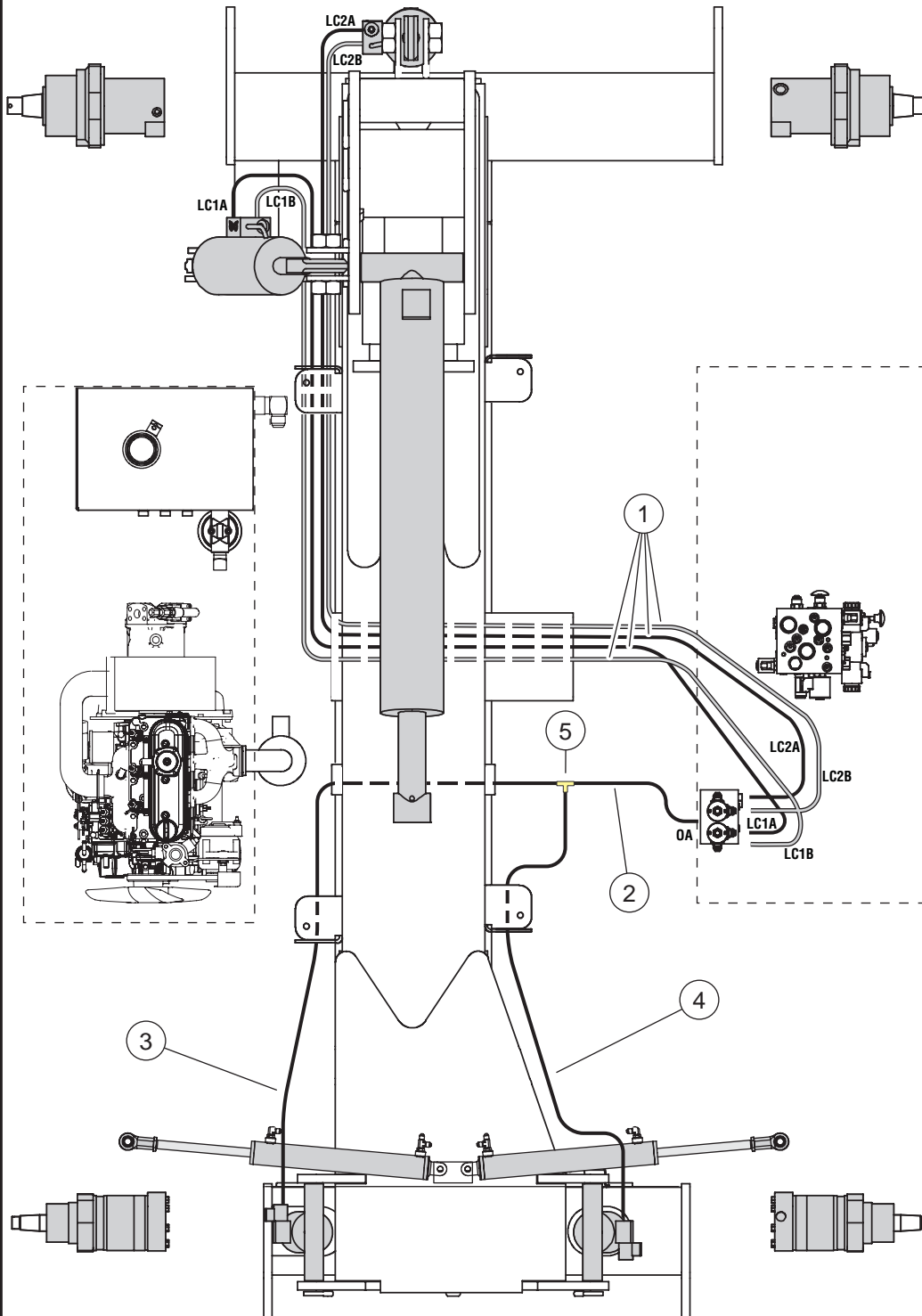
• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# RT MODELS



**MEC**  
ILLUSTRATION No.  
ART\_3201

Speed Level™ Sigma Lift

Hydraulic Hose Routing: Level and Axle Float



## Hydraulic Hose Routing, RT Models: Platform Level, Axle Float

ITEM	PART NO.	QTY	DESCRIPTION
1	19349	4	Hose Assy, 1/4" x 120", 4G4FJX-4G4FJX
2	90316	1	Hose Assy, 1/4" x 21", 4G4FJX-4G4FJX
3	19361	1	Hose Assy, 1/4" x 73", 4G4FJX-4G4FJX90S
4	19340	1	Hose Assy, 1/4" x 65", 4G4FJX-4G4FJX
5	50927	1	Tee, MJT-4

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# RT MODELS

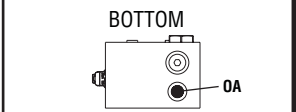
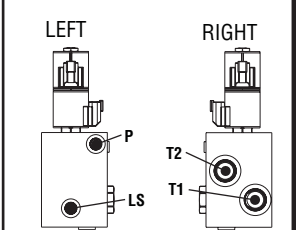
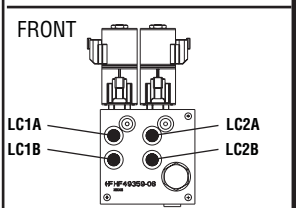
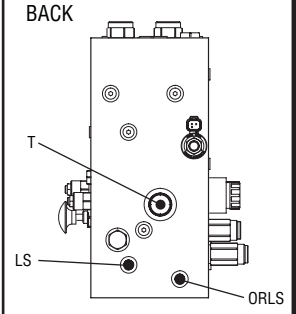
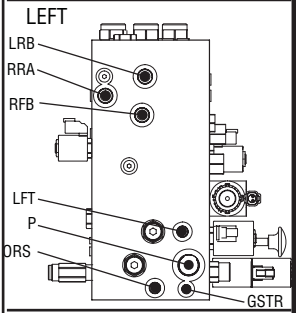
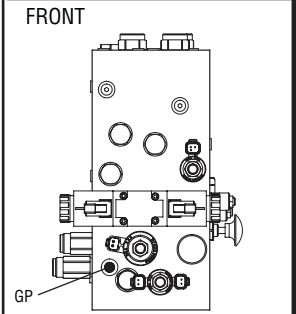
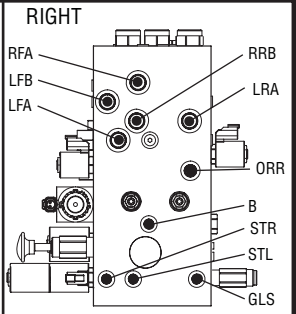
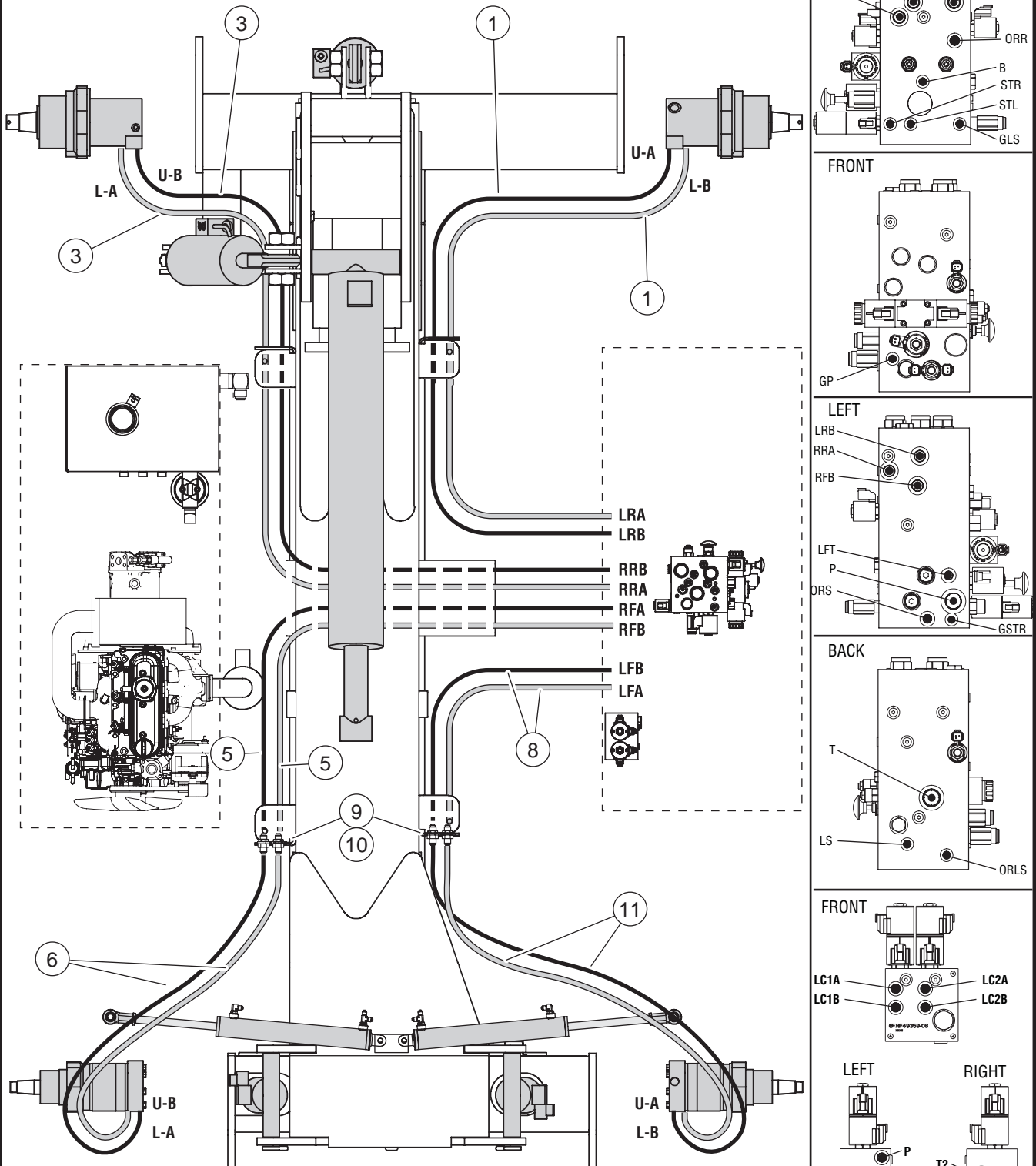


 ILLUSTRATION No. ART\_3202 Speed Level™ Sigma Lift

Hydraulic Hose Routing: Drive Motors

## Hydraulic Hose Routing, RT Models: Drive Motors

ITEM	PART NO.	QTY	DESCRIPTION
1	19355	2	Hose Assy, 1/2" x 49", 8M3K-8FJX-8FJX45
2	--	--	--
3	19357	2	Hose Assy, 1/2" x 102", 8M3K-8FJX-8FJX45
4	--	--	--
5	19353	2	Hose Assy, 1/2" x 61", 8M3K-8FJX-8FJX
6	19352	2	Hose Assy, 1/2" x 37", 8M3K-8FJX-8FJX90S
7	--	--	--
8	19354	2	Hose Assy, 1/2" x 44", 8M3K-8FJX-8FJX
9	50904	4	Adapter, Male 1/2" JIC-1/2" JIC Bulkhead MJ-MJH-8-8
10	91193	4	Jamnut, 3/4-16
11	19350	2	Hose Assy, 58"

• as req: as required

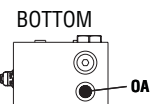
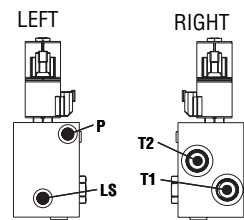
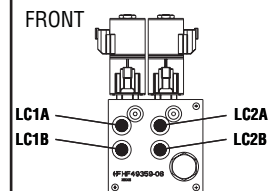
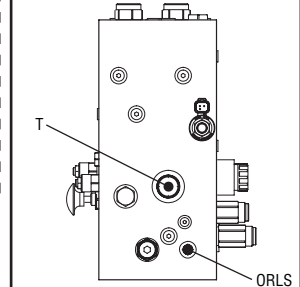
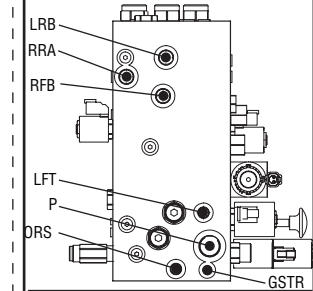
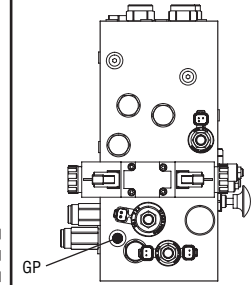
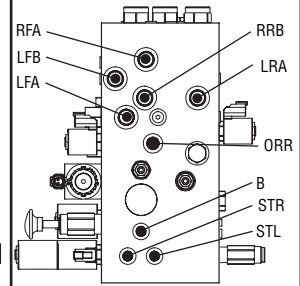
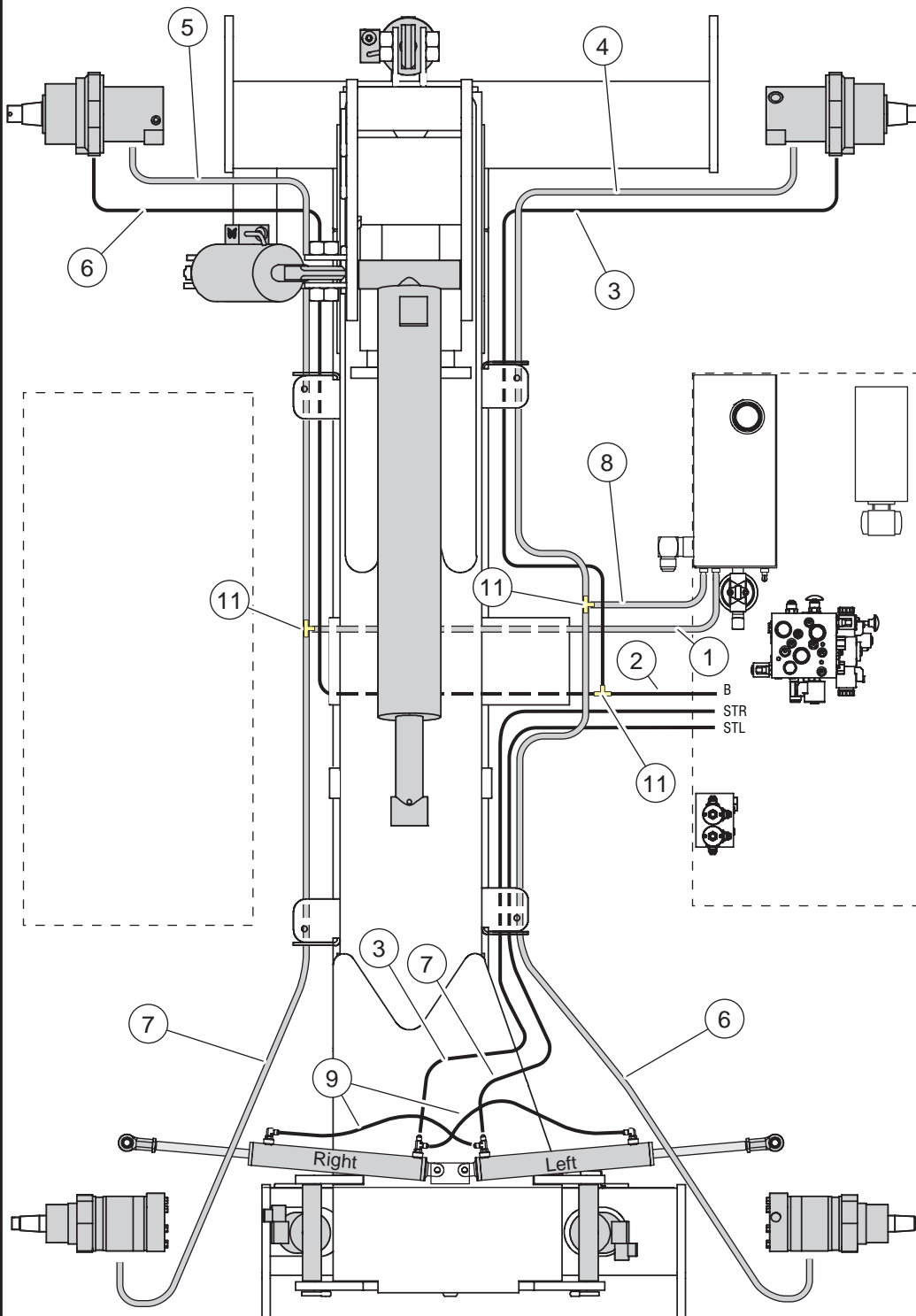
• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# ES MODELS



**MEC**  
ILLUSTRATION No.  
ART\_3208

Speed Level™ Sigma Lift

Hydraulic Hose Routing: Steer, Brake, Case Drain

## Hydraulic Hose Routing, ES Models: Steer, Brake, Case Drain

ITEM	PART NO.	QTY	DESCRIPTION
1	19340	1	Hose Assy, 1/4" x 65", 4G4FJX-4G4FJX
2	19358	1	Hose Assy, 1/4" x 15", 4G4FJX-4G4FJX90S
3	19359	2	Hose Assy, 1/4" x 86", 4G4FJX-4G4FJX90S
4	19361	1	Hose Assy, 1/4" x 73", 4G4FJX-4G4FJX90S
5	19362	1	Hose Assy, 1/4" x 52", 4G4FJX-4G4FJX90S
6	19363	2	Hose Assy, 1/4" x 89", 4G4FJX-4G4FJX
7	19364	1	Hose Assy, 1/4" x 77", 4G4FJX-4G4FJX
8	19365	1	Hose Assy, 1/4" x 38", 4G4FJX-4G4FJX
9	90316	2	Hose Assy, 1/4" x 21", 4G4FJX-4G4FJX
10	--	--	--
11	50927	3	Tee, MJT-04

• as req: as required

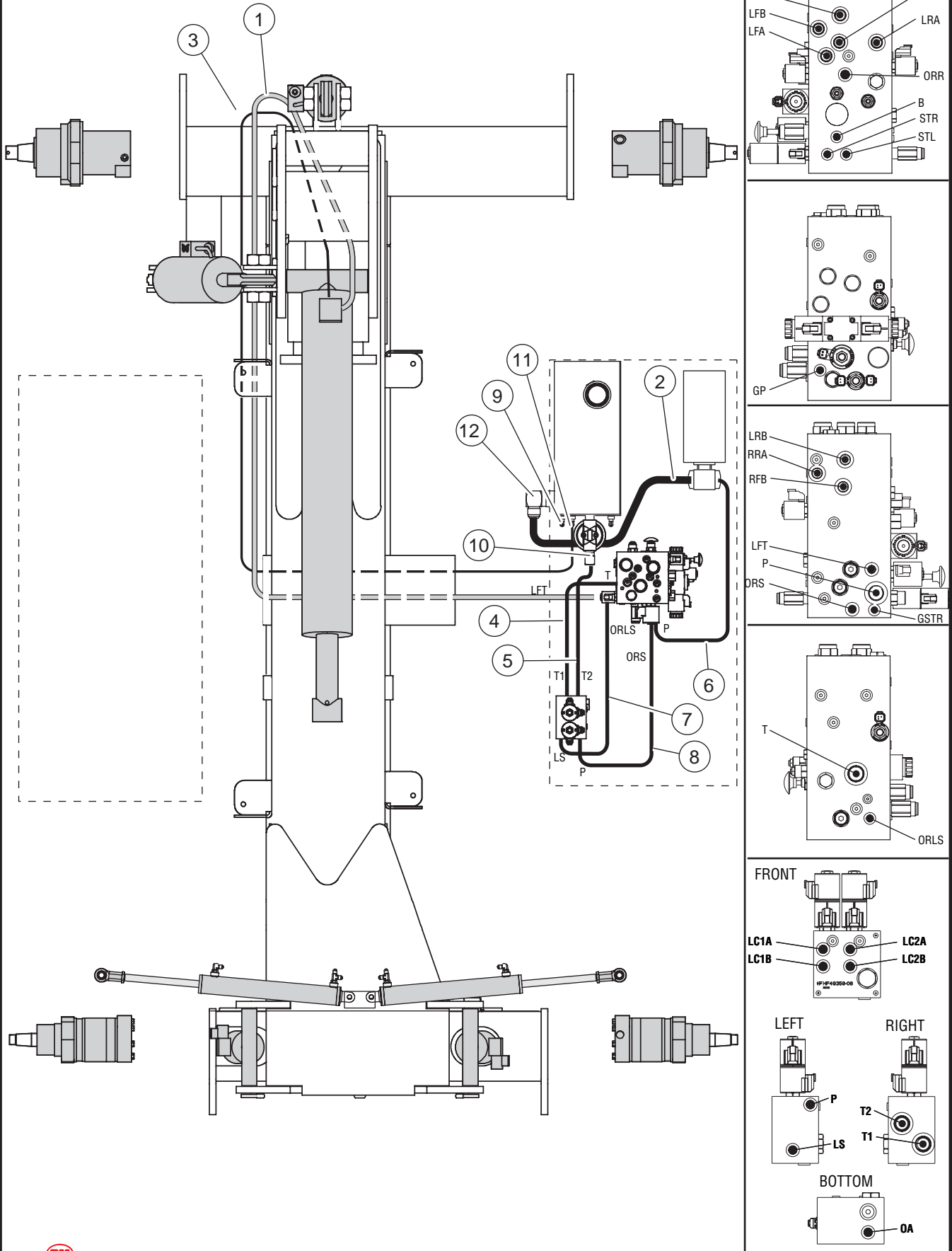
• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# ES MODELS



**MEC**  
ILLUSTRATION No.  
ART\_3200

Speed Level™ Sigma Lift

Hydraulic Hose Routing: Lift and Pump

## Hydraulic Hose Routing, ES Models: Lift, Pump

ITEM	PART NO.	QTY	DESCRIPTION
1	19341	1	Hose Assy, 3/8" x 132", 6G6FJ90X - 6G6FJX
2	91698	1	Hose Assy, 3/4" x 35", 12G12FJX - 12G12FJX
3	91909	1	Hose Assy, 3/8" x 150", 6G6FJX - 6G6FJX
4	91879	1	Hose Assy, 3/4" x 16", 12G12FJX - 12G12FJX
5	19347	1	Hose Assy, 3/4" x 21", 12G12FJX - 12G12FJX90S
6	90315	1	Hose Assy, 1/2" x 21", 8G8FJX - 8G8FJX90S
7	19369	1	Hose Assy, 1/4" x 28", 4G4FJX - 4G4FJX45
8	19370	1	Hose Assy, 1/4" x 33", 4G4FJX - 4G4FJX90S
9	50665	2	Fitting, 90°, MB - MJ90 - 04 - 04
10	50906	1	Fitting, MJ - MP - 12 - 12
11	50892	1	Tee, MJFJX - MJT - 4
12	50907	1	Fitting, MJ - MP - 12 - 20

• as req: as required

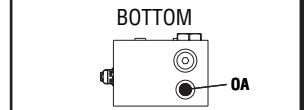
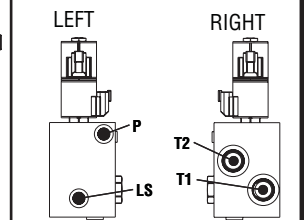
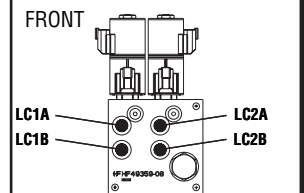
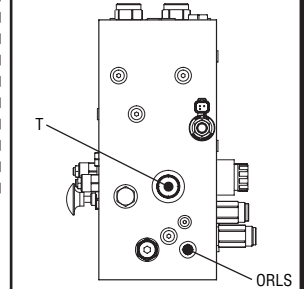
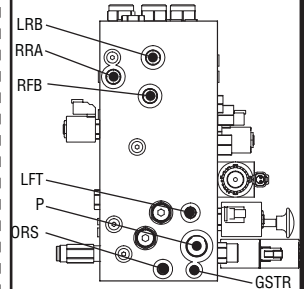
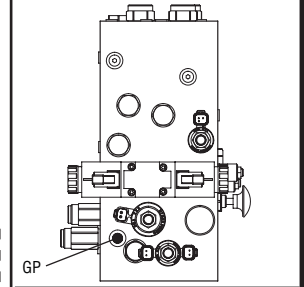
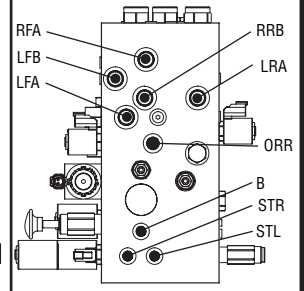
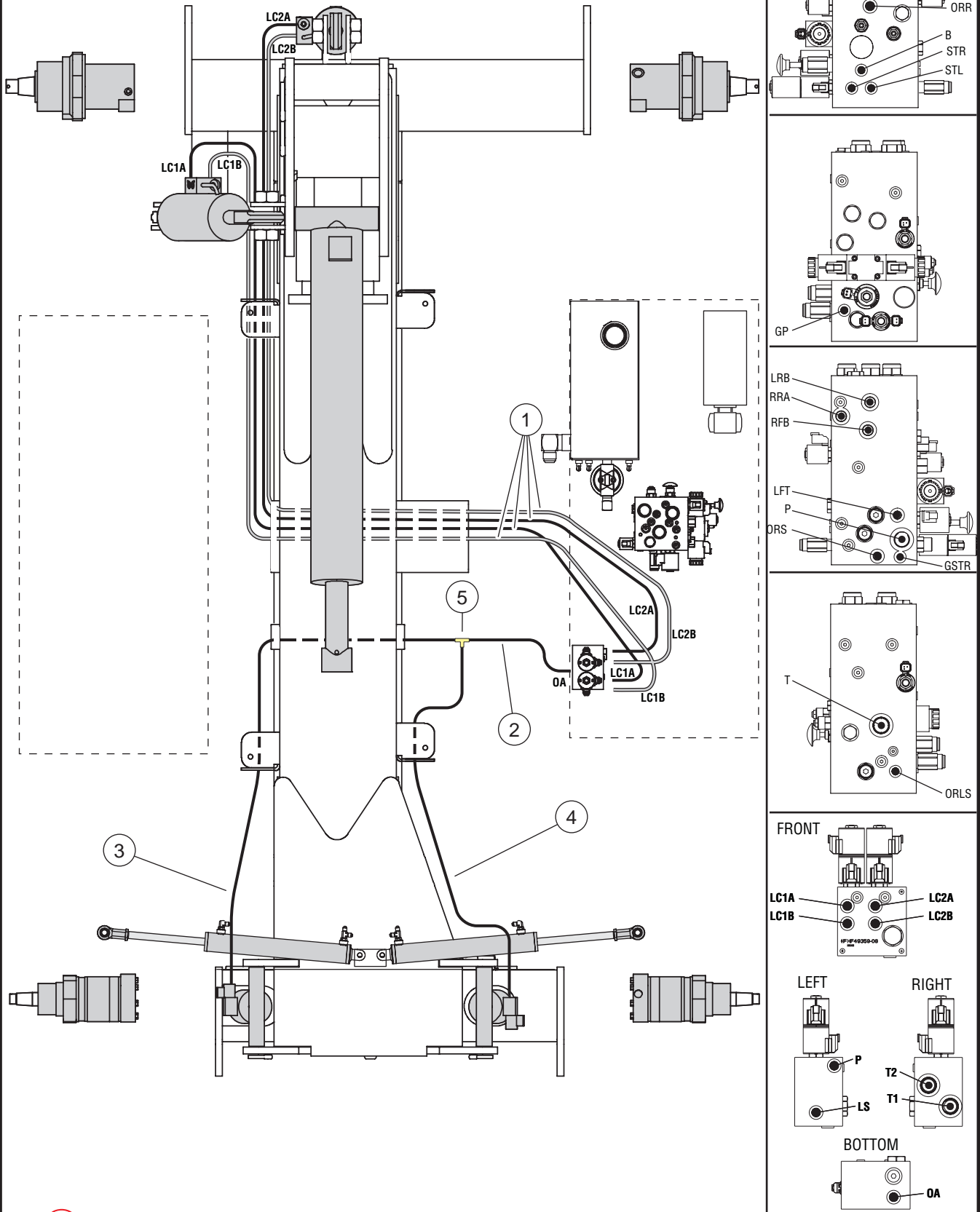
• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# ES MODELS



**MEC**  
ILLUSTRATION No.  
ART\_3210

Speed Level™ Sigma Lift

Hydraulic Hose Routing: Level and Axle Float



## Hydraulic Hose Routing, ES Models: Platform Level, Axle Float

ITEM	PART NO.	QTY	DESCRIPTION
1	19349	4	Hose Assy, 1/4" x 120", 4G4FJX-4G4FJX
2	90316	1	Hose Assy, 1/4" x 21", 4G4FJX-4G4FJX
3	19361	1	Hose Assy, 1/4" x 73", 4G4FJX-4G4FJX90S
4	19340	1	Hose Assy, 1/4" x 65", 4G4FJX-4G4FJX
5	50927	1	Tee, MJT-4

• as req: as required

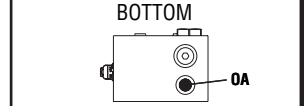
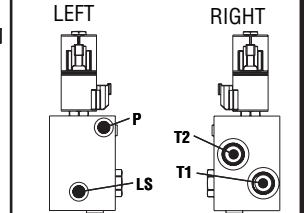
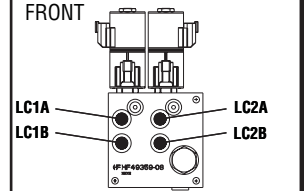
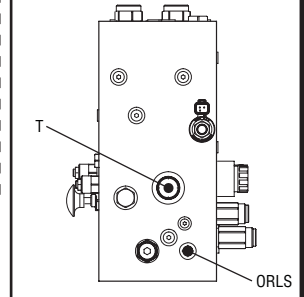
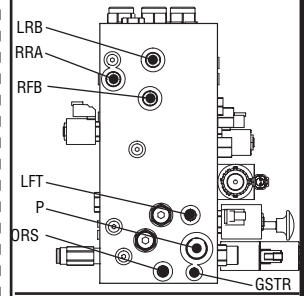
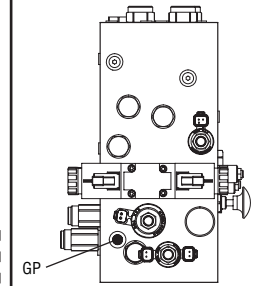
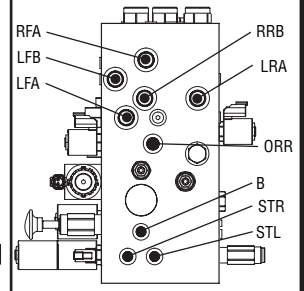
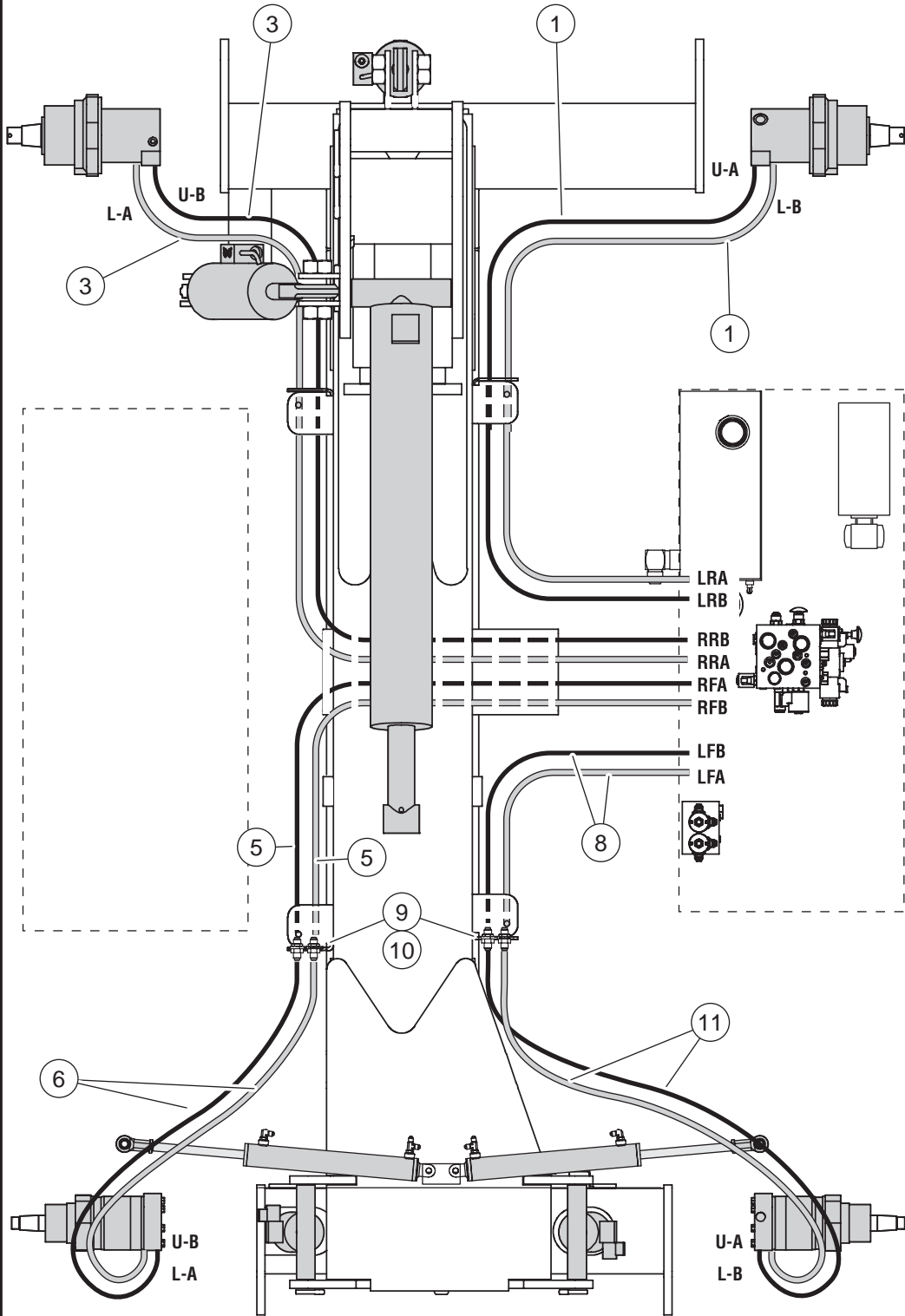
• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# ES MODELS



**mecc**  
ILLUSTRATION No.  
ART\_3211

Speed Level™ Sigma Lift

Hydraulic Hose Routing: Drive Motors

## Hydraulic Hose Routing, ES Models: Drive Motors

ITEM	PART NO.	QTY	DESCRIPTION
1	19355	2	Hose Assy, 1/2" x 49", 8M3K-8FJX-8FJX45
2	--	--	--
3	19357	2	Hose Assy, 1/2" x 102", 8M3K-8FJX-8FJX45
4	--	--	--
5	19353	2	Hose Assy, 1/2" x 61", 8M3K-8FJX-8FJX
6	19352	2	Hose Assy, 1/2" x 37", 8M3K-8FJX-8FJX90S
7	--	--	--
8	19354	2	Hose Assy, 1/2" x 44", 8M3K-8FJX-8FJX
9	50904	4	Adapter, Male 1/2" JIC-1/2" JIC Bulkhead MJ-MJH-8-8
10	91193	4	Jamnut, 3/4-16
11	19350	2	Hose Assy, 58"

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



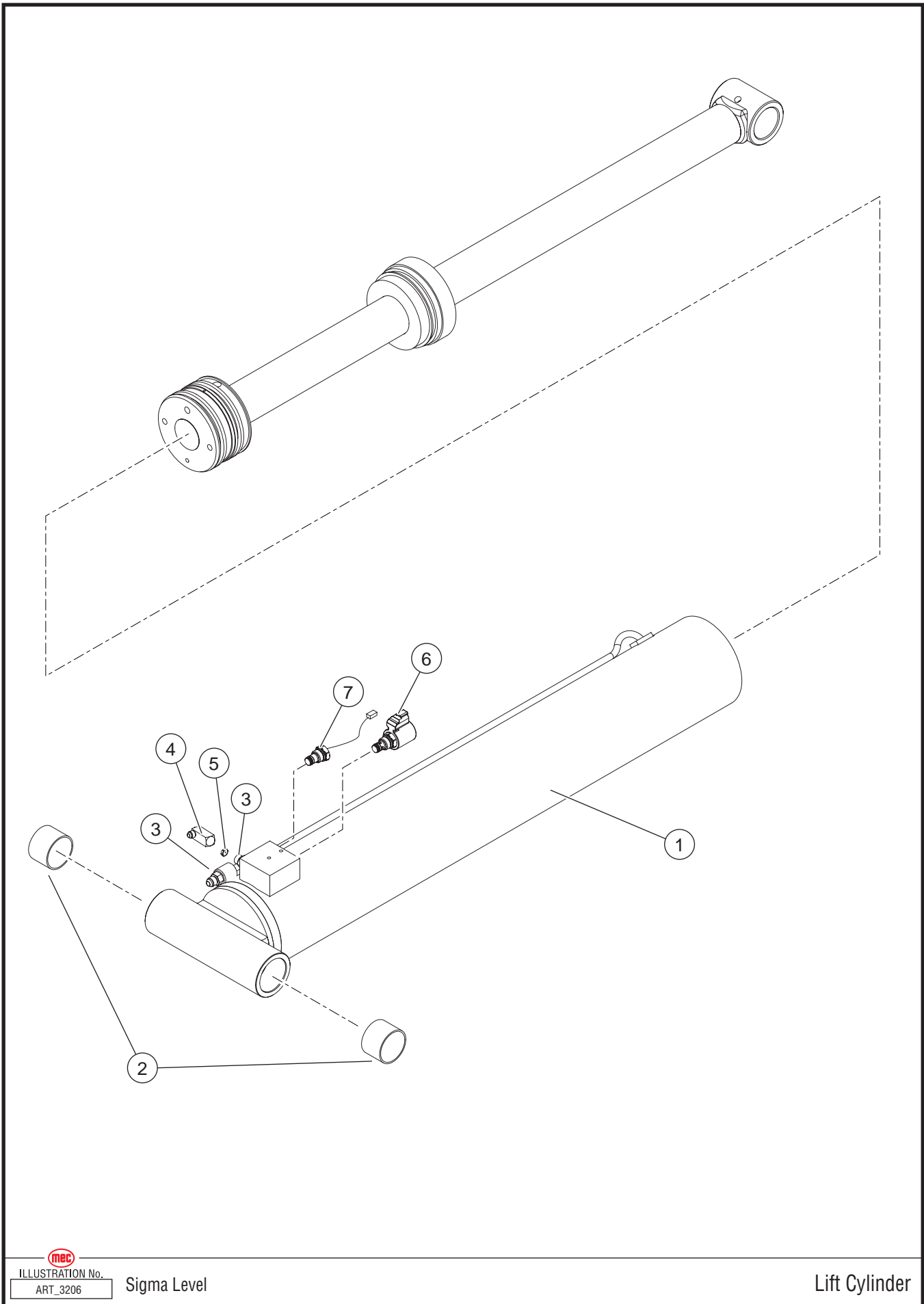


ILLUSTRATION No.  
ART\_3206

Sigma Level

Lift Cylinder

## Lift Cylinder

ITEM	PART NO.	QTY	DESCRIPTION
1	19084	1	Lift Cylinder
-	92077	--	Seal Kit
2	6669	4	Bearing
3	50776	2	Fitting, MB-MJ-6-6
4	50890	1	Fitting, MJ-FJX-90-6-6
5	91732	1	Orifice
6	91464	1	Valve, 2-Way, NC
	91141	1	Coil, 12V
7	90845	1	Pressure Sensor (CE only)

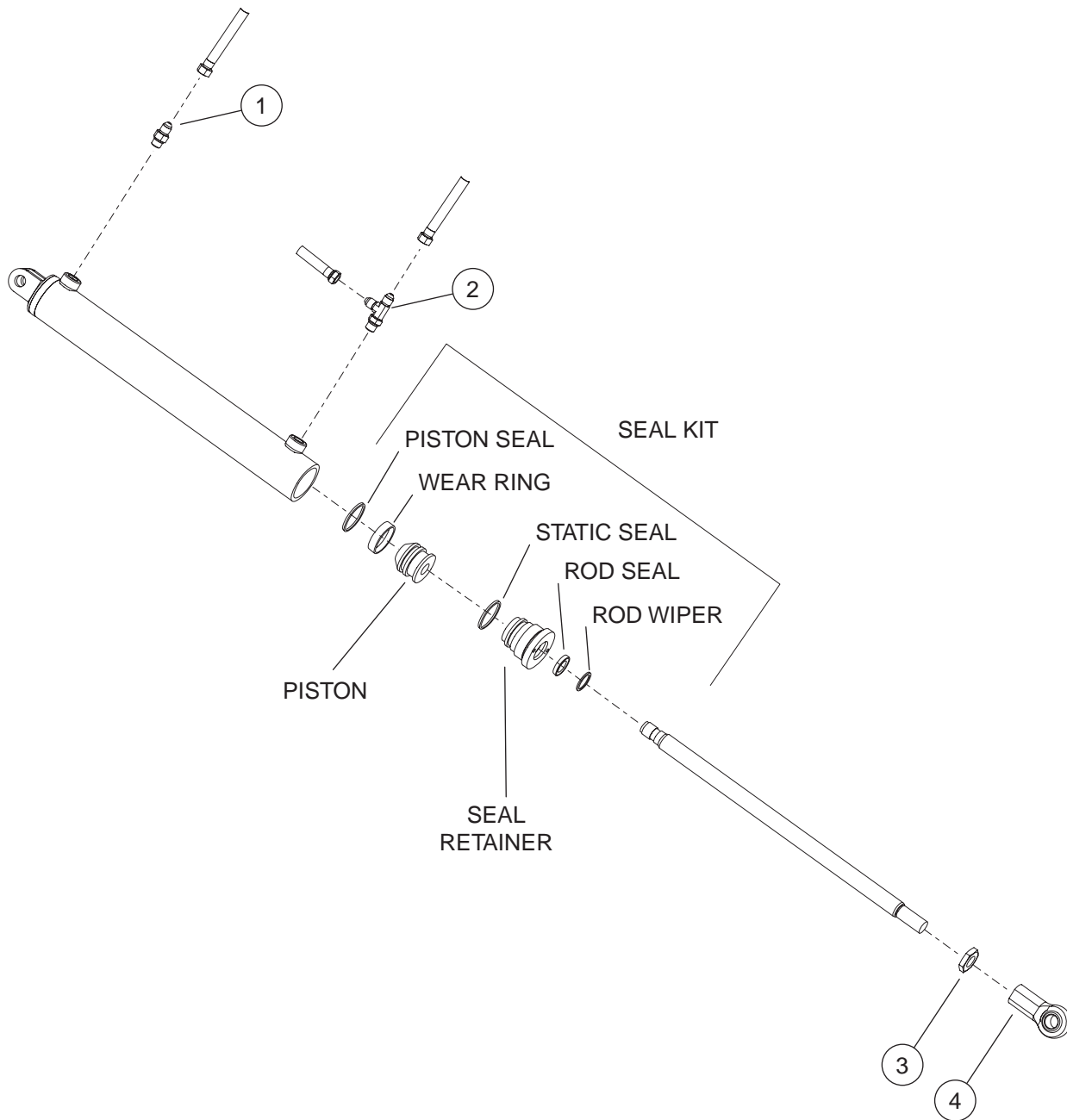
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• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only





 ILLUSTRATION No. 91019 Steering Cylinder  
 ART\_2713

X72 Steering Cylinder

## Steering Cylinder

ITEM	PART NO.	QTY	DESCRIPTION
-	91019	2	Steering Cylinder
-	90990	--	Seal Kit (Service)
1	50769	1	Adapter Male 1/4" O-Ring-Male 1/4" JIC
2	50962	1	Tee, MJ-MB-MJT-4
3	HDW5925	1	Jamnut 5/8-18
4	7293	1	Rod End
5	50665	2	Fitting, 90, MJ-FJX90-4-4

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



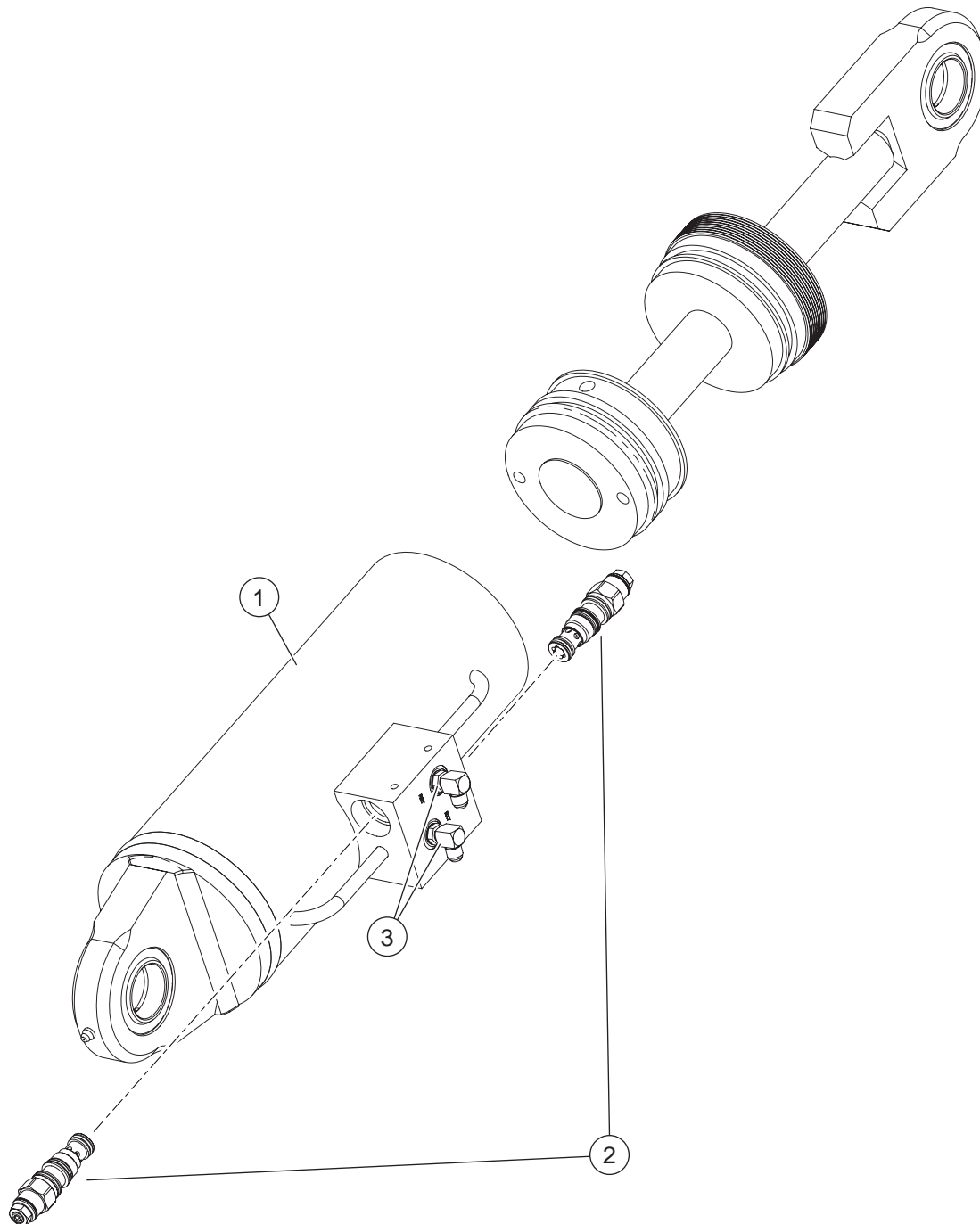


  
ILLUSTRATION No.  
ART\_3219

Sigma Level

Level Cylinder



## Level Cylinder

ITEM	PART NO.	QTY	DESCRIPTION
1	19081	2	Level Cylinder
-	92078	--	Seal Kit (Service)
2	92125	4	Counterbalance Valve
3	50665	4	Fitting, MB-MJ90-4-4

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



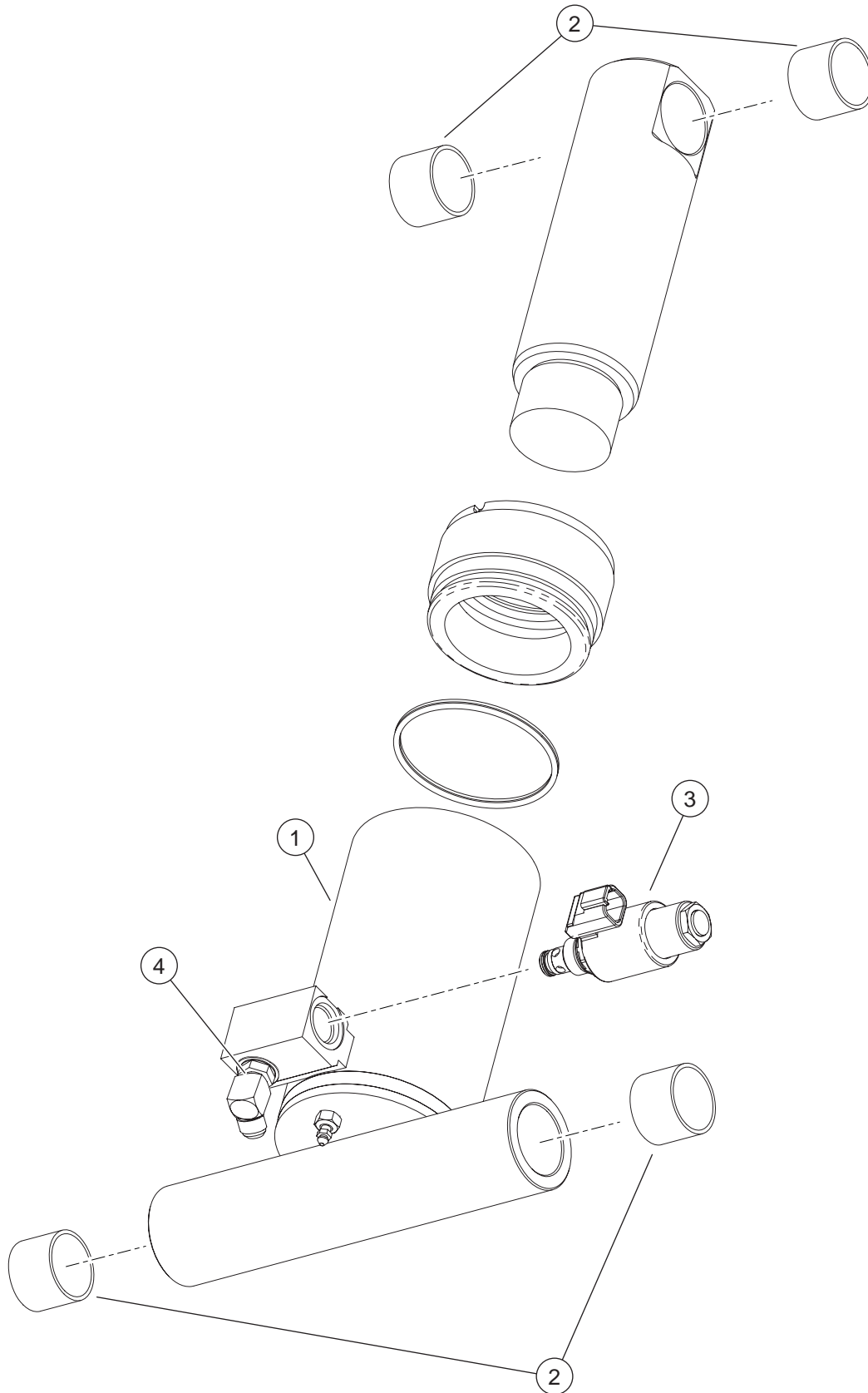


ILLUSTRATION No.  
ART\_3220

Sigma Level

Axle Lock Cylinder

## Axle Lock Cylinder

ITEM	PART NO.	QTY	DESCRIPTION
1	19087	2	Axle Lock Cylinder
-	92079	--	Seal Kit (Service)
2	7896	4	Bearing
3	92192	1	Valve
4	50665	2	Fitting, MB-MJ90-4-4

• as req: as required

• INCL: Included with assembly

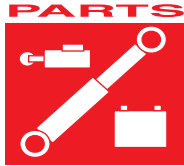
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• REF: Reference only



**NOTES:**

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# SECTION F

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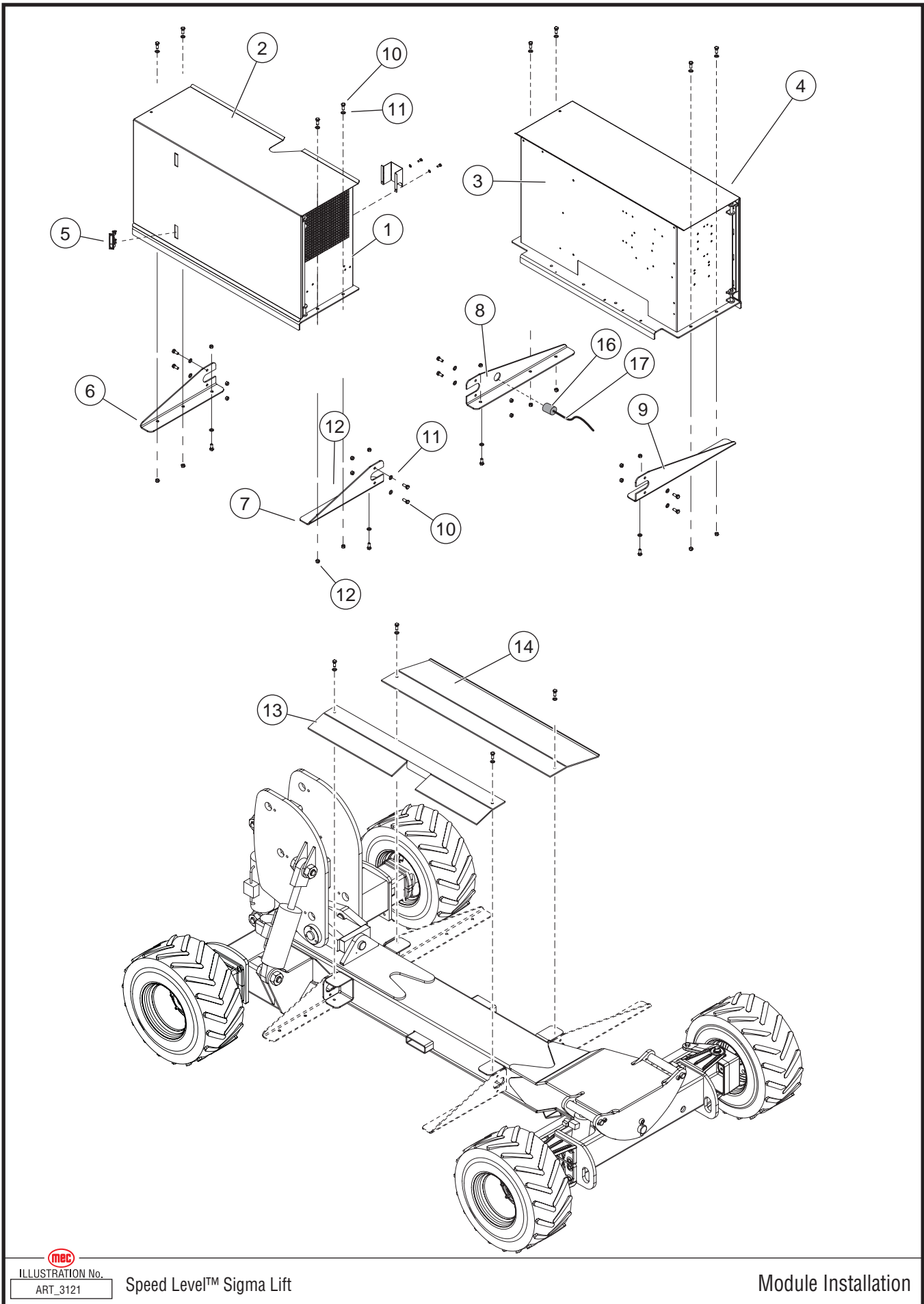


  
 ILLUSTRATION No.  
 ART\_3121

Speed Level™ Sigma Lift

Module Installation

## Module Installation

ITEM	PART NO.	QTY	DESCRIPTION
1	16978	1	Power Module Weldment, ES
	16213	1	Power Module Weldment, RT
2	16984	1	Power Module Door, ES
	16220	1	Power Module Door, RT
3	16989	1	Control Module, ES
	16153	1	Control Module, RT
4	16985	1	Control Module Door, ES
	16156	1	Control Module Door, RT
5	8386	4	Door Latch Trigger
6	19106	1	Module Bracket, Right Front
7	19105	1	Module Bracket, Right Rear
8	19104	1	Module Bracket, Left Rear
9	19103	1	Module Bracket, Left Front
10	50039	24	Bolt, M12 x 30
11	50003	24	Washer, M12
12	50050	24	Nut, M12 Nylock
13	19155	1	Hose Cover, Right Side
14	19154	1	Hose Cover, Left Side
15	19159	1	RT Models -- Exhaust Cover
16	90749	1	Plug, Marinc0 15 amp
17	REF	--	Cable, Power To Platform, 14G -- See "Wire Harness" pages at the end of Section F

• as req: as required

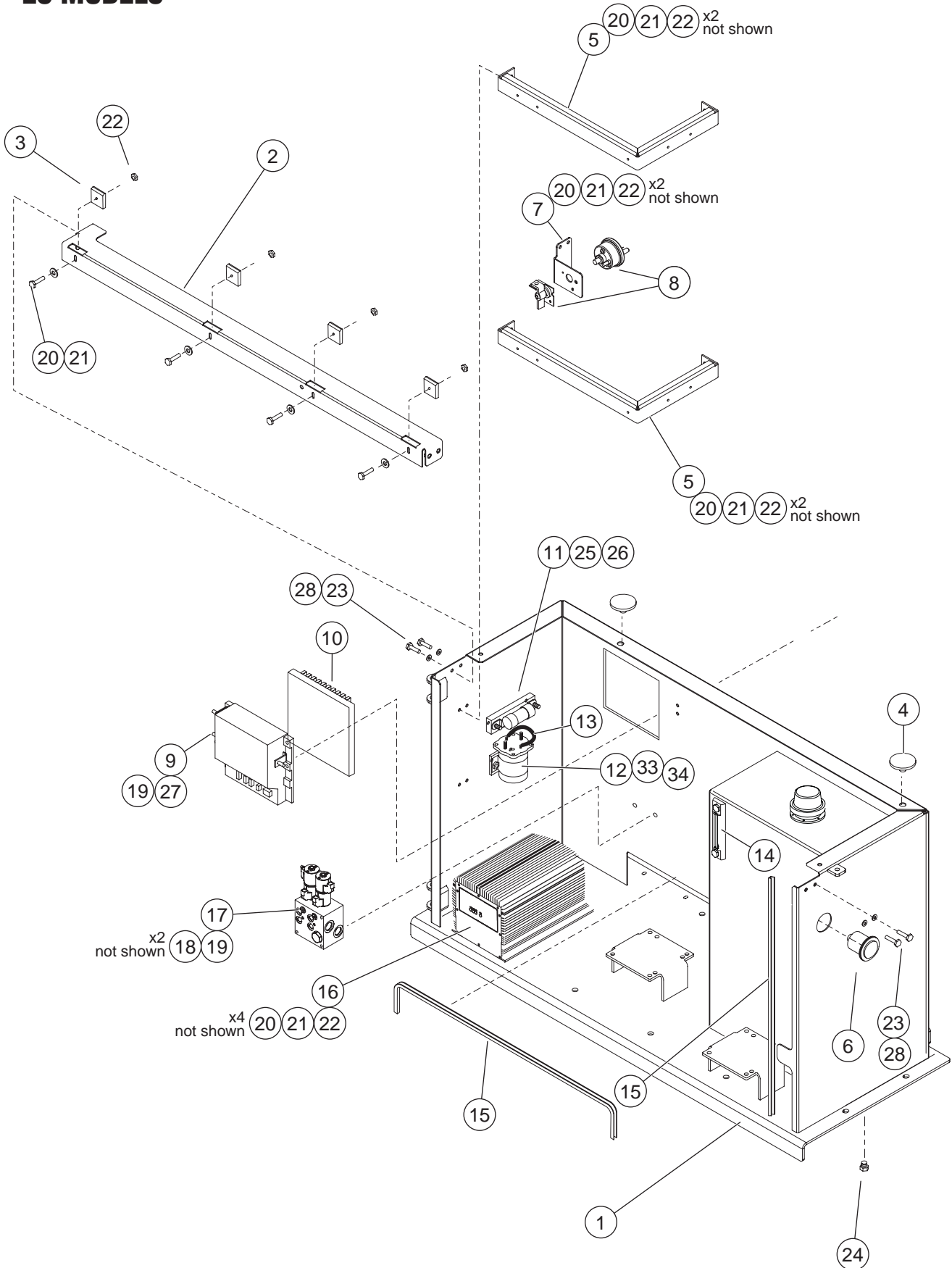
• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# ES MODELS



MEC  
ILLUSTRATION No.  
ART\_3122

Speed Level™ Sigma Lift

Control Module, Drawing 1 of 2



## Control Module – ES, Drawing 1 of 2

ITEM	PART NO.	QTY	DESCRIPTION
1	REF	–	Control Module Weldment -- See "Module Installation" on Page F-3.
2	16154	1	Bracket, Cross Support
3	14896	4	Block, Slide, Door
4	25429	2	Pad
5	16226	2	Bracket, Control Box
6	90749	1	Plug, Battery Charger Connection
7	16229	1	Bracket, Battery Disconnect
8	8841	1	Switch, Battery Disconnect
9	91658	1	Motor Controller
10	19276	1	Heat Sink
11	91709	1	Fuse, 300 AMP
12	91745	1	Contact, Solenoid 48V, 12V Coil
13	8368	1	Diode
14	9370	1	Fluid Level Gauge
15	6121	5 ft	Trim Lock
16	91633	1	Battery Charger
17	93093	1	Manifold, Leveling -- See Section E - Hydraulics
18	50237	3	Screw, Hex M8 x 100
19	50048	6	Nut, M8 Nylock
20	50028	14	Screw, Hex, M6 x 20
21	50068	15	Washer, M6 Fender
22	50047	14	Nut, M6 Nylock
23	50150	4	Screw, 5/16–18 x 3/4, GR5
24	HDW9200	1	Plug, 1/4 NPT
25	HDW7778	2	Screw, FPH MS 1/4-20 x 12
26	HDW8267	2	Nut, Top Lk 1/4-20 Gr C
27	50282	2	Screw, Hex, M8 x 35
28	50061	4	Washer, 5/16 Flat

• as req: as required

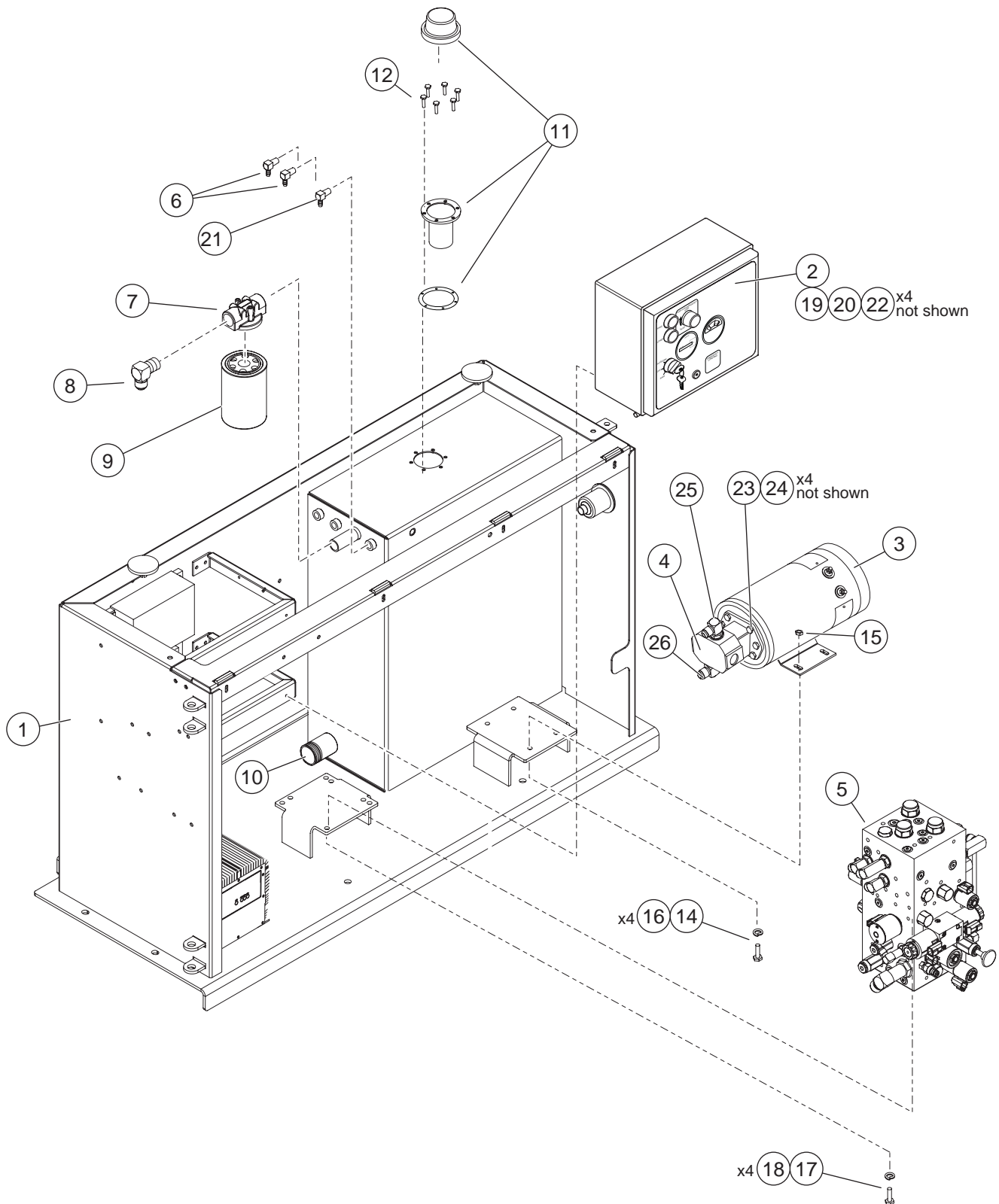
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• REF: Reference only



# ES MODELS



**mecc**  
ILLUSTRATION No.  
ART\_3123

Speed Level™ Sigma Lift

Control Module, Drawing 2 of 2

## Control Module – ES, Drawing 1 of 2

ITEM	PART NO.	QTY	DESCRIPTION
1	REF	–	Control Module Weldment
2	83077	1	Control Box -- See Section A - Controls
3	91640	1	Electric Motor
4	91673	1	Pump, 10CC
5	83072	1	Hydraulic Manifold -- See Section E - Hydraulics
6	HDW6727	2	Fitting, MP-MJ-4-4 90
7	6714	1	Filter Head
8	50916	1	Elbow, 90° ¾ NPT – ¾ JIC
9	6156	1	Filter Cartridge
10	50650	1	Nipple, MJ-MP-12-20
11	9367	1	Filler/Strainer
12	50143	6	Bolt, 32 x 1.57
13	--	--	--
14	50031	4	Screw, Hex, M8 x 25
15	50048	4	Nut, M8 Nylock
16	5000	4	Washer, M8
17	50147	4	Screw, 3/8 x 1
18	HDW7783	4	Lock Washer, 3/8
19	50214	4	Screw, M6 x 30
20	50047	4	Nut, M6 Nylock
21	50919	1	Fitting, MP-MJ-4-6 90
22	50068	4	Washer, M6 Fender
23	50188	4	Screw, Hex Fine Thread 3/8-24 x 1.5
24	50062	4	Washer, 3/8
25	50762	1	Fitting, MB-MJ-10-8 90
26	50763	1	Fitting, MB-MJ-12-12 90

• as req: as required

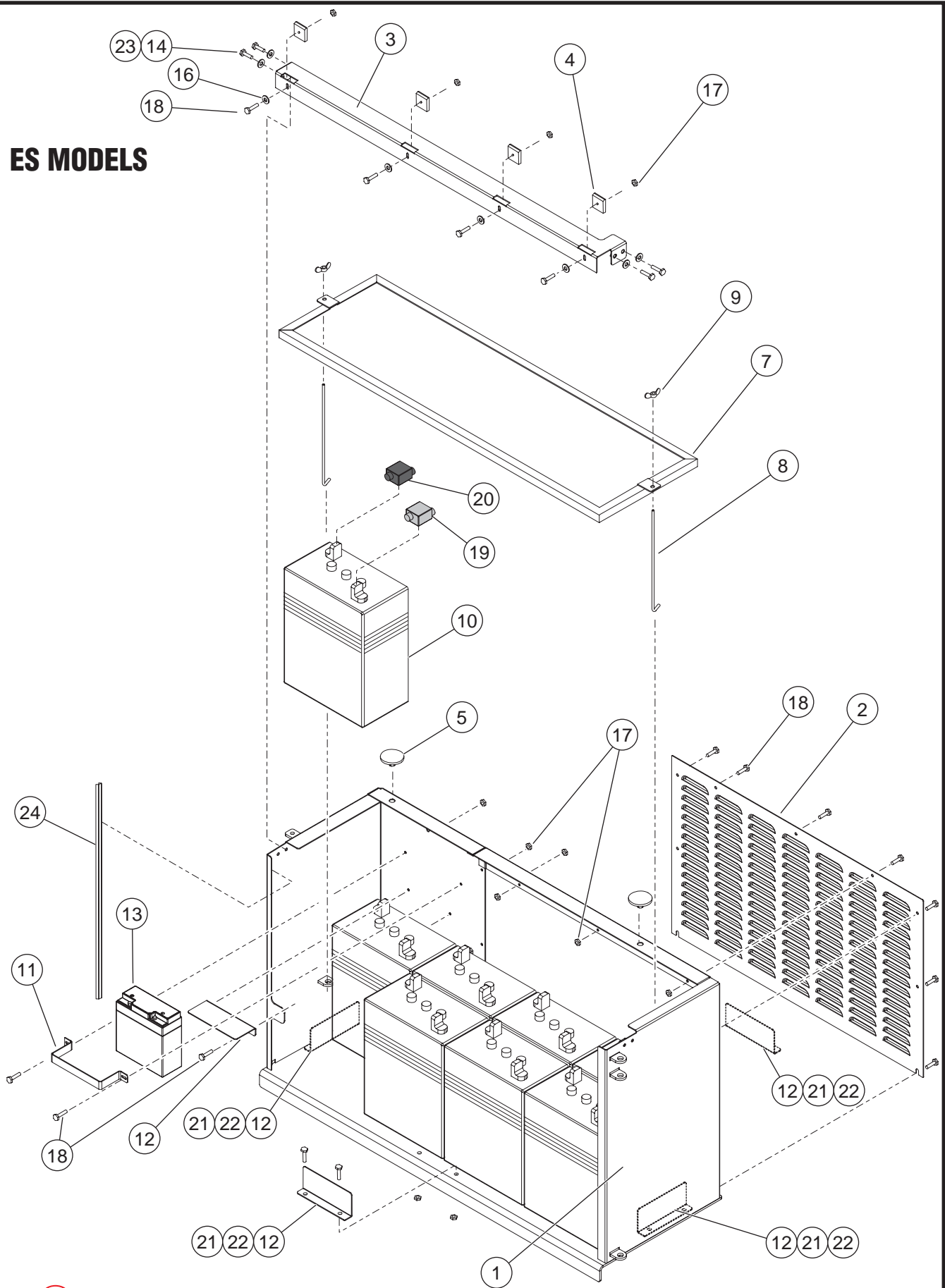
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• NS: Not a Stock item

• REF: Reference only



**ES MODELS**



**mecc**  
ILLUSTRATION No.  
ART\_2719

3072ES - 3772ES - Sigma Level, ES

Power Module

## Power Module – ES

ITEM	PART NO.	QTY	DESCRIPTION
1	REF	–	Weldment, Battery Module -- See "Module Installation" on Page F-3.
2	16974	1	Panel, Battery Module
3	16977	1	Crossbar, Battery Module
4	14896	4	Block, Slide, Door
5	25429	2	Pad
6	--	--	--
7	16983	1	Battery Holddown
8	2987	2	Holddown Rod
9	6110	2	Wingnut
10	91641	8	Battery, 375 AH, UL16
11	16619	1	Bracket, Battery
12	16620	5	Shelf, Battery
13	90898	1	Battery, 12VDC / 17-18 AH
14	HDW5724	4	Screw, 5/16-18, 3/4" LG, GR 5
15	--	--	--
16	50068	17	Washer, M6 Fender
17	50047	17	Nut, M6 Nylock
18	50028	18	Screw, Hex, M6 x 20
19	91790	8	Battery Boot, Red, Positive
20	91790	8	Battery Boot, Black, Negative
21	91789	4	Screw, Hex, M8 x 20
22	50030	4	Nut, M8 Nylock
23	50061	4	Washer, 5/16 Flat
24	6121	26"	Trim Lock, 1/4"

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# RT MODELS

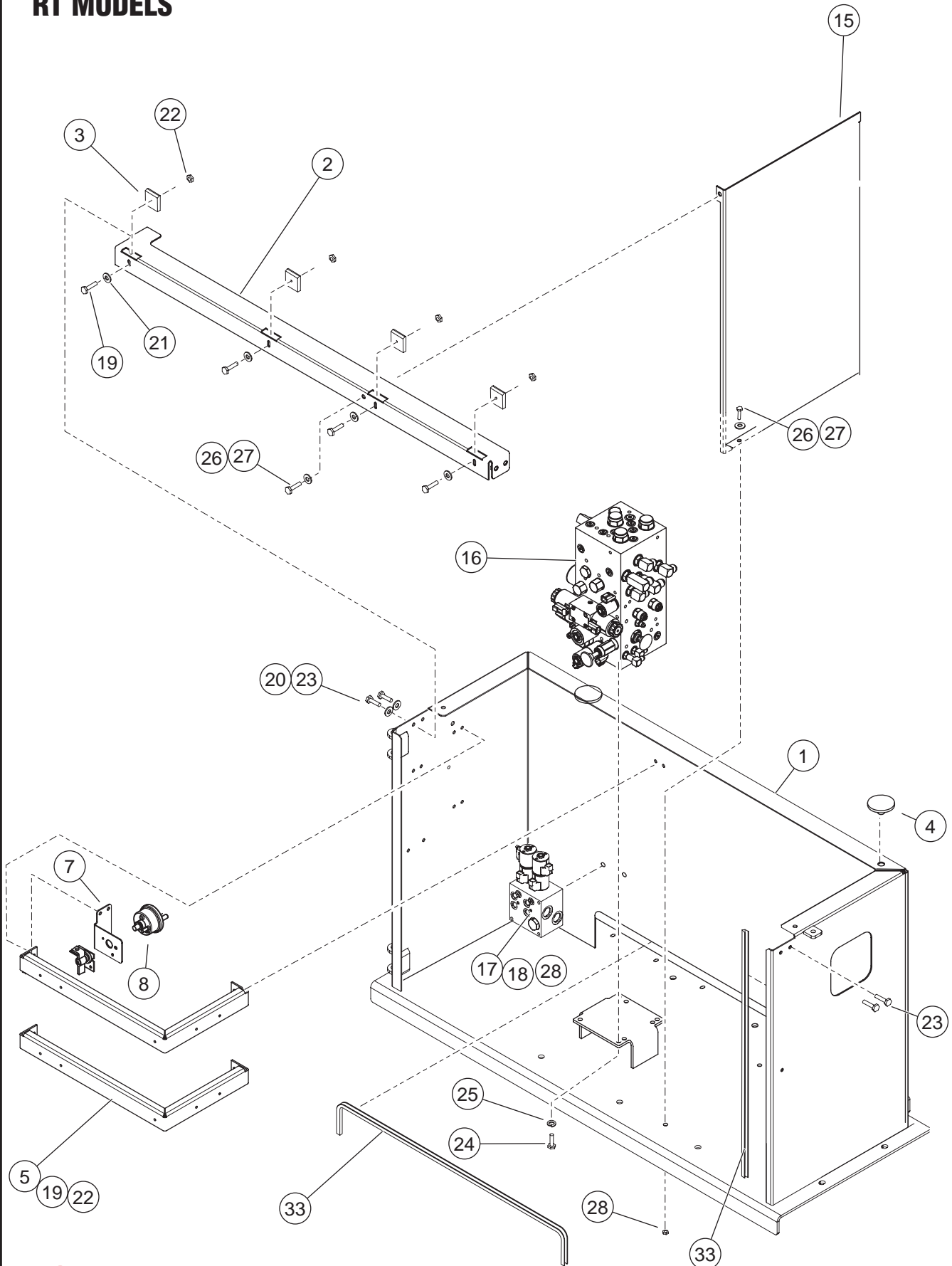


  
ILLUSTRATION No.  
ART\_3077

Speed Level™ Sigma Lift

Control Module, Drawing 1 of 2

## Control Module RT, Drawing 1 of 2

ITEM	PART NO.	QTY	DESCRIPTION
1	REF	–	Control Module Weldment -- See "Module Installation" on Page F-3.
2	16154	1	Bracket, Cross Support
3	14896	4	Block, Slide, Door
4	25429	2	Pad
5	16226	2	Bracket, Control Box
6	--	--	--
7	16229	1	Bracket, Battery Disconnect
8	8841	1	Switch, Battery Disconnect
9	--	--	--
10	--	--	--
11	--	--	--
12	--	--	--
13	--	--	--
14	--	--	--
15	16152	1	Bulkhead
16	83071	1	Hydraulic Manifold -- See Section E - Hydraulics
17	83093	1	Manifold, Leveling -- See Section E - Hydraulics
18	50237	3	Screw, Hex M8 x 100
19	50028	8	Screw, M6 x 20
20	50000	4	Washer, M6 Flat
21	50068	8	Washer, M6
22	50047	8	Nut, M6 x 1.0 Nylock
23	50150	4	Screw, 5/16–18 x ¾, GR5
24	50147	4	Screw, 3/8 x 1
25	HDW7783	4	Lock Washer, 3/8
26	50001	5	Washer, M8 Flat
27	50030	5	Screw, Hex M8 x 20
28	50048	5	Nut, M8 Nylock
29	50047	3	Nut, M6 Nylock
30	--	--	--
31	--	--	--
32	--	--	--
33	6121	5 ft	Trim Lock

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

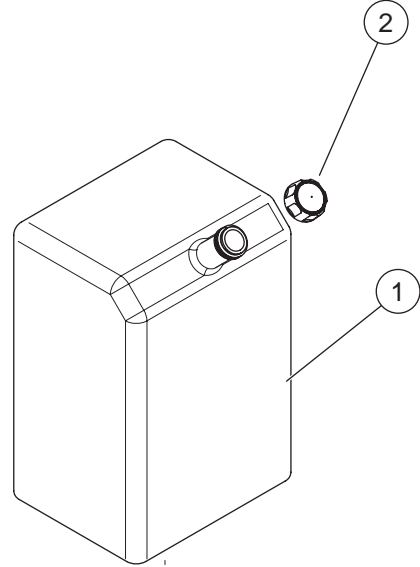
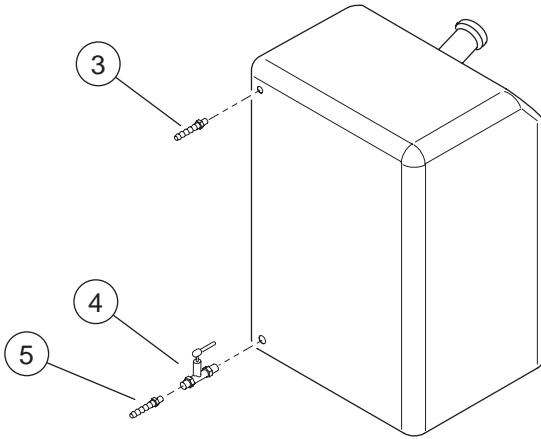
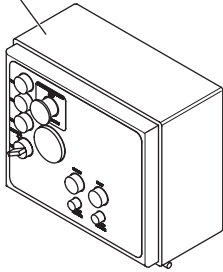
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# RT MODELS

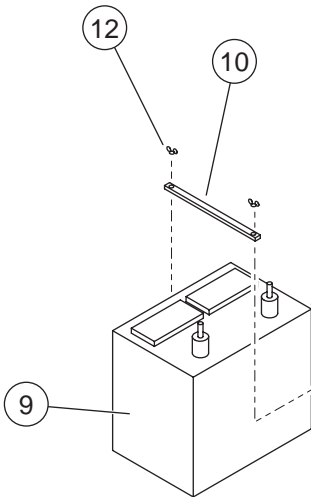
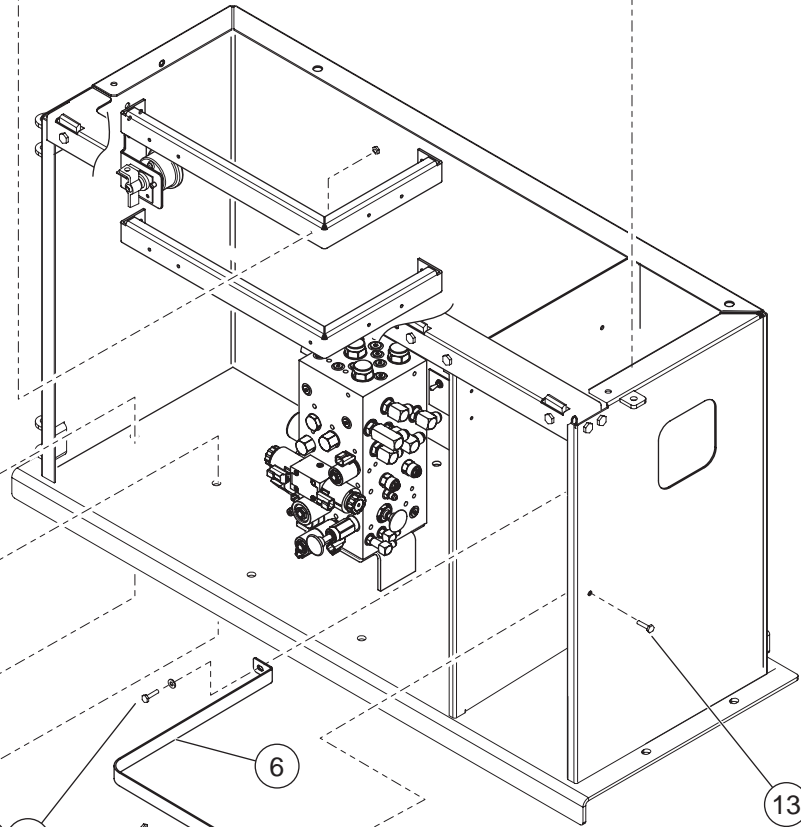
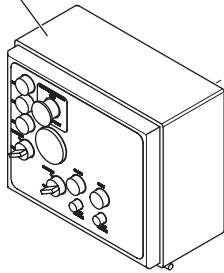
Diesel

7 14 15 16



Dual Fuel

7 14 15 16



13 16

14 16



ILLUSTRATION No.  
ART\_3078

Speed Level™ Sigma Lift

Control Module, Drawing 2 of 2



## Control Module, RT Drawing 2 of 2

ITEM	PART NO.	QTY	DESCRIPTION
1	91023	1	Fuel Tank, Plastic
2	91091	1	Fuel Tank Cap
3	HDW91233	1	Plug (Dual Fuel) 1/8 NPT, 3/19 Hose Barb
	HDW91320	1	Adapter (Diesel)
4	6919	1	Fuel Shutoff
5	HDW91279	1	Adapter, Male 1/8 NPT, 5/16 Hose Barb
	7788	1	Clamp (Not Shown)
	6458	90 IN	Hose, Fuel Line (Not Shown)
6	16225	1	Bracket, Fuel Tank
7	83078	1	Dual Duel Models -- Control Box Assy
	83079	1	Diesel Models -- Control Box Assy
8	--	--	--
9	6854	1	Battery, 12VDC, Grp 24 Deep Cycle
10	3436	1	Hold Down Bar
11	2987	2	Hold Down Rod
12	HDW6110	2	Wing Nut
13	50028	2	Screw, M6 x 20
14	50047	6	Nut, M6 Nylock
15	50239	4	Screw, Hex M6 x 30
16	50130	6	Washer, M6 Fender

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# RT MODELS

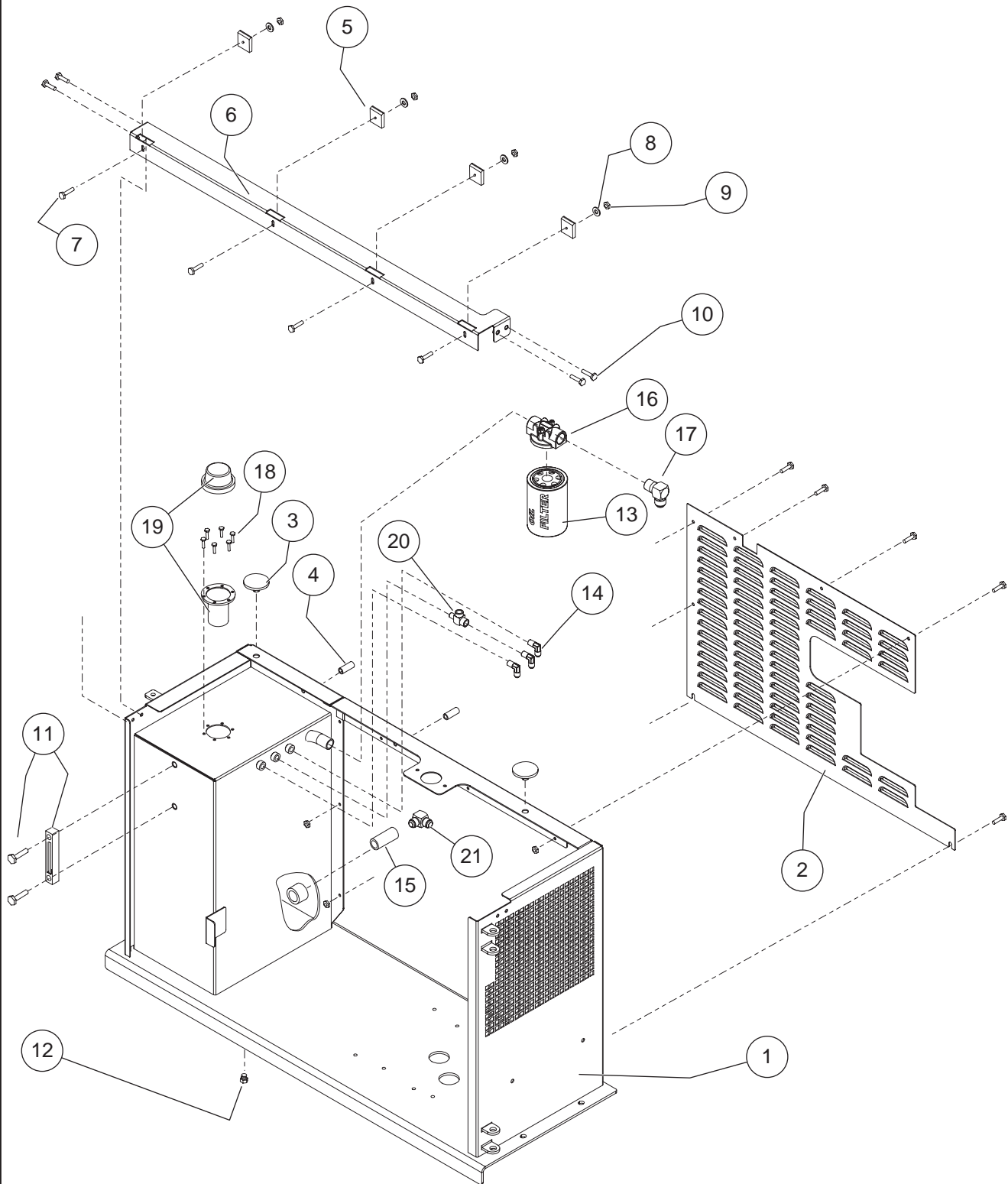


ILLUSTRATION No.  
ART\_3478

91RT - Speed Level™ RT

Power Module

## Power Module – RT

ITEM	PART NO.	QTY	DESCRIPTION
1	16213	REF	Power Module Weldment
2	16247	1	Guard, Engine Module
3	25429	2	Pad
4	40620	2	Spacer, Insulator
5	14896	4	Slide Block, Door
6	14826	1	Bracket, Cross Support
7	50028	11	Screw, M6 x 20
8	50068	13	Washer, M6 Fender
9	50047	12	Nut, M6 Nylock
10	HDW5724	4	Screw, 5/16 - 18 x 3/4 inch, GR5
11	9370	1	Level Gauge
12	HDW9200	1	Plug, 1/4 NPT
13	6156	1	Filter Cartridge
14	50664	2	Elbow, MP-MJ90-4-4
15	50648	1	Fitting, MJ-MP-16-20
16	6714	1	Filter Head
17	HDW9268	1	Elbow, 90° 1/4 NPT - 3/4 JIC
18	HDW8482	6	Bolt, 32 x 1.57
19	9367	1	Filler/Strainer
20	50893	1	Tee, MJ-FJX-MJT-6
21	50649	1	Elbow 90, MJ-FJX90-16-16
22	50061	4	Washer, 5/16 Flat
23	50920	1	Fitting, MJ-MP90-6-4

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only





## Engine Mount – Dual Fuel

ITEM	PART NO.	QTY	DESCRIPTION
1	16213	REF	Power Module Weldment
2	16211	2	Engine Mount, Dual Fuel
3	16210	2	Spacer
4	91131	1	Radiator Bracket Kit
5	91127	1	Coolant Overflow Tank
6	50028	2	Screw, M6 x 20
7	50047	2	Nut, M6 Nylock
8	6458	3 FT	Hose
9	16295	1	Air Intake Weldment
10	HDW5723	2	Screw, 1/4 - 20 x 3/4
11	HDW8267	4	Nut, 1/4 - 20
12	7736	8	Insulator, Rubber
13	40620	4	Spacer - Isolator
14	HDW8567	4	Washer, Flat, 3/8
15	HDW8279	4	Bolt, 3/8 - 16 x 2 1/2 GR8
16	HDW8268	4	Nut, 3/8 - 16
17	HDW91234	12	Screw, M10-1.25 x 25 8.8
18	50130	2	Washer, 1/4 Flat
19	90480	4	Washer, 3/8 x 1-1/2 Fender

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# DIESEL MODELS

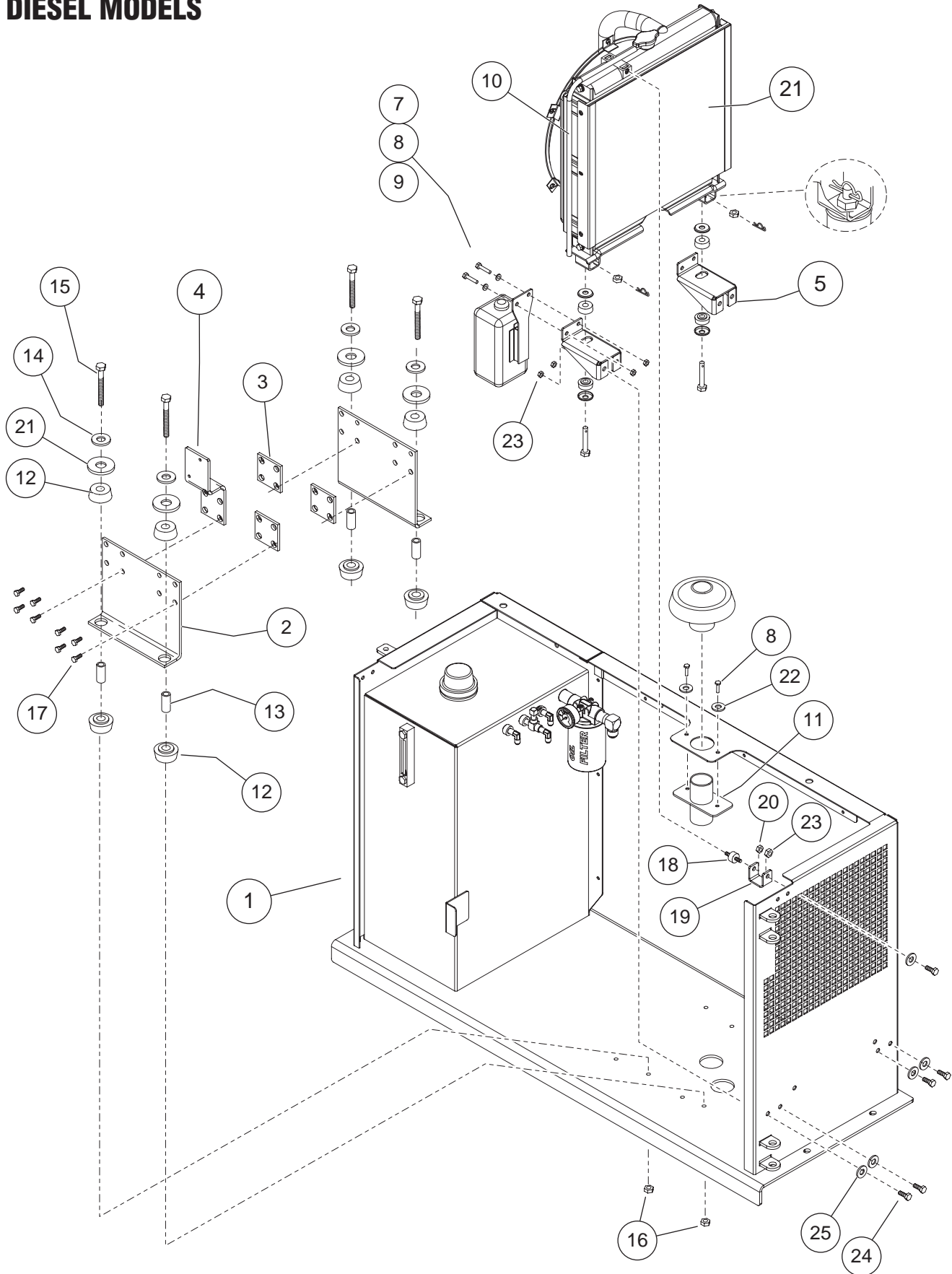


 ILLUSTRATION No.  
ART\_2127 R2 Diesel

Engine Mount, D1105

## Engine Mount – Diesel

ITEM	PART NO.	QTY	DESCRIPTION
1	16213	REF	Power Module Weldment
2	16209	2	Engine Mount, Diesel
3	16210	3	Spacer
4	16207	1	Bracket, Solenoid Mount
5	16345	2	Bracket, Radiator Mount
6	--	--	--
7	91127	1	Coolant Overflow Tank
8	50028	2	Screw, M6 x 20
9	50047	2	Nut, M6 Nylock
10	6458	3 FT	Hose
11	16295	1	Air Intake Weldment
12	7736	8	Insulator, Rubber
13	40620	4	Spacer - Isolator
14	HDW8567	4	Washer, Flat, 3/8
15	HDW8279	4	Screw, 3/8 - 16 x 2 1/2 GR8
16	HDW8268	4	Nut, 3/8 - 16
17	HDW91234	12	Screw, M10 - 1.25 x 25 8.8
18	91591	1	Vibration Isolator
19	16346	1	Radiator Brace
20	50047	1	Nut, M6
21	90480	4	Washer, 3/8 x 1-1/2 Fender
22	50130	2	Washer, 1/4 Flat
23	50049	5	Nut, M10 Nylock
24	50215	5	Bolt, M10 x 20 HHCS
25	50002	5	Washer, M10 Flat

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# DIESEL MODELS

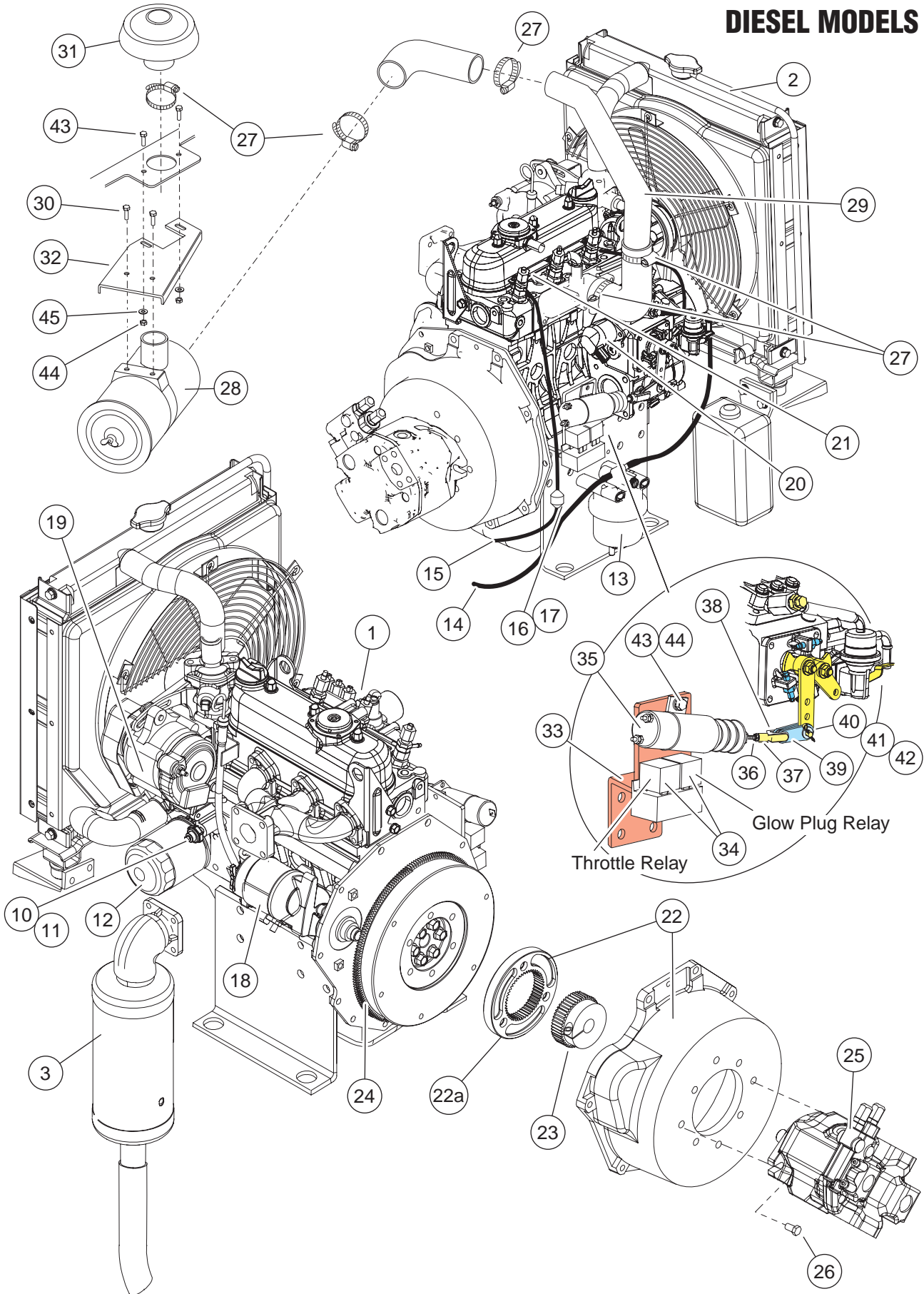


ILLUSTRATION No.  
ART\_2130-R4

Diesel Engine, Kubota D1105



## Engine – Diesel

ITEM	PART NO.	QTY	DESCRIPTION
Additional attaching engine parts found earlier in this section			
--	84036	--	Engine Subassembly, Diesel
1	91429	1	Engine Kit, D1105
2	91113	1	Radiator Kit
--	9831	--	Radiator
3	19405	1	Muffler Kit
--	92164	--	Gasket, Exhaust (not shown)
4	--	--	--
5	--	--	--
6	--	--	--
7	--	--	--
8	--	--	--
9	--	--	--
10	91175	1	Oil Pressure Switch
11	HDW91187	1	Fitting, 1/8 NPT, m-F
12	8665	1	Oil Filter
13	91116	1	Fuel Filter Assembly
--	91123	--	Fuel Filter Element
14	6458	8 FT	Hose, Fuel, 5/16
15	91199	6 FT	Hose, Fuel, 3/16
16	91114	1	Valve, Check
17	7788	5	Hose Clamp
18	8413	incl	Starter
19	90227	incl	Alternator
20	8001	incl	Fuel Solenoid
21	9832	incl	Glow Plugs
22	91112	1	KTR housing Kit, D905
22a	91572	--	Coupler, Outer
23	91130	1	Hub
24	91630	1	Ring Gear
25	91160	1	Hydraulic Pump
26	HDW6433	2	Screw, 3/8-16 × 1"

... continued

# DIESEL MODELS

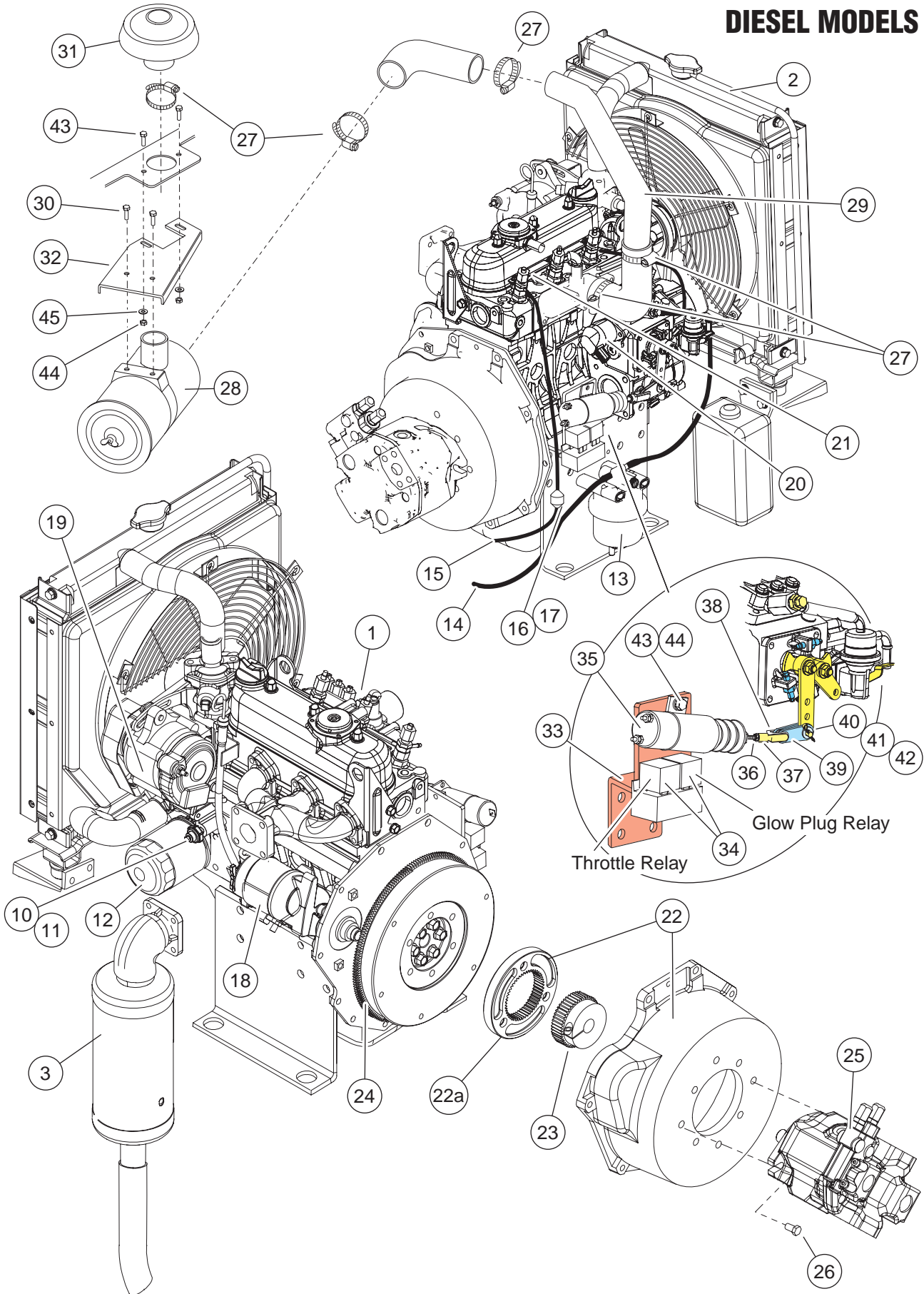


 ILLUSTRATION No.  
ART\_2130-R4

Diesel Engine, Kubota D1105

## Engine – Diesel (continued)

ITEM	PART NO.	QTY	DESCRIPTION
27	7545	5	Hose Clamp
28	91111	1	Air Cleaner kit
--	8667	--	Air Filter Element
29	16720	1	Tube, Intake Extension
30	946640	2	Screw,
31	91799	1	Breather Cap
32	16721	1	Bracket
33	16207	1	Bracket, Solenoid
34	91375	2	Relay
35	91589	1	Solenoid, Throttle
36	HDW91231	1	Jamnut, ¼–28
37	91117	1	Yoke
38	91588	1	Washer, ¼" Rubber
39	16347	2	Throttle Link
40	HDW5217	1	Washer, Flat, 5/16"
41	HDW91590	1	Clevis Pin, 5/16 × 1"
42	HDW5290	1	Cotter Pin, 1/8" × 1"
43	50028	4	Screw, M6 x 20
44	50047	4	Nut, M6 Nylock
45	HDW5217	2	Flat Washer

• as req: as required

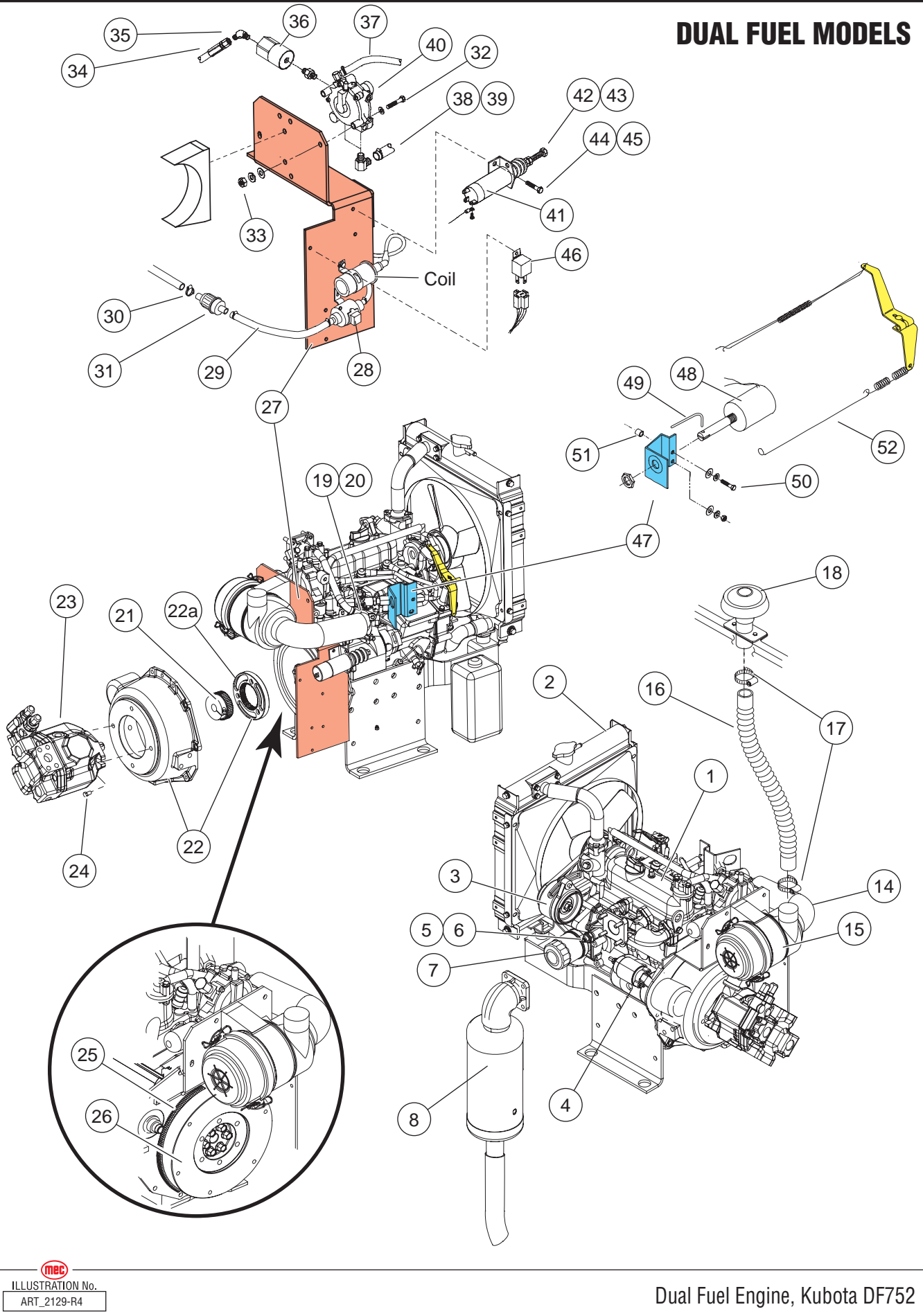
• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# DUAL FUEL MODELS



MEC  
ILLUSTRATION No.  
ART\_2129-R4

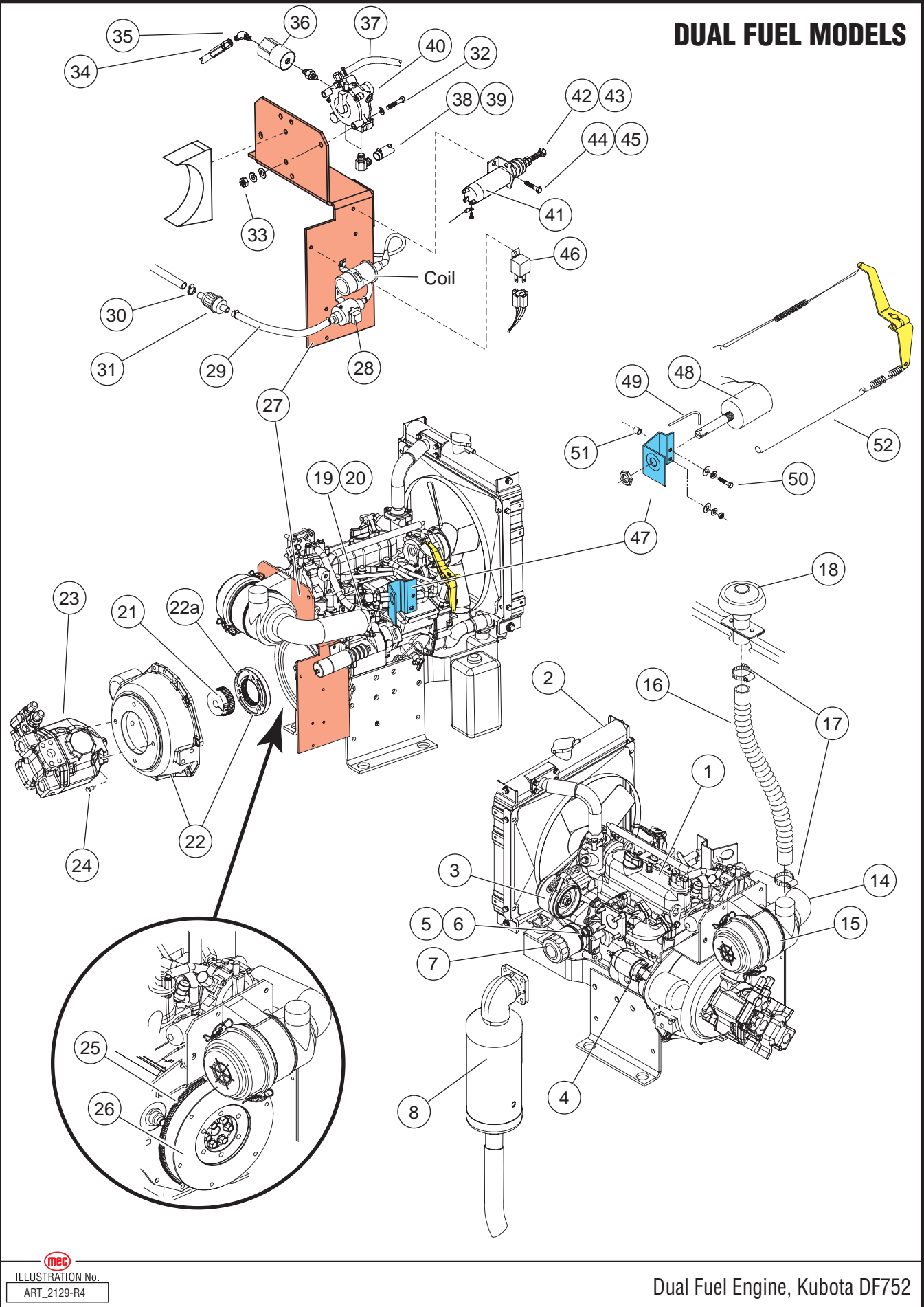
Dual Fuel Engine, Kubota DF752

## Engine – Dual Fuel

ITEM	PART NO.	QTY	DESCRIPTION
Additional attaching engine parts found earlier in this section			
	91035		Engine Subassembly, Dual Fuel
1	91125	1	Engine, Kubota DF752
2	8472	1	Radiator
3	90227	1	Alternator, 40 AMP
4	8365	1	Starter
5	91175	1	Oil Pressure Switch
6	HDW91187	1	Fitting, 1/8 NPT, M-F
7	8516	1	Oil Filter
8	19405	1	Muffler
--	92164	--	Gasket, Exhaust (not shown)
9	--	--	--
10	--	--	--
11	--	--	--
12	--	--	--
13	--	--	--
14	91136	1	Air Filter Element
15	91188	1	Intake Hose
16	91340	1	Hose, 2.00" I.D. Flex
17	7545	2	Hose Clamp
18	91799	1	Breather Cap
19	91133	1	Carburetor Flange
20	91617	1	Carburetor Assembly
21	91130	1	Hub
22	91129	1	KTR Housing Kit, DF752
22a	91573	--	Coupler, Outer
23	91160	1	hydraulic Pump
24	HDW6433	2	Screw, 3/8-16 × 1"
25	91765	1	Ring Gear
26	91766	1	Flywheel

... continued

# DUAL FUEL MODELS



MEC  
ILLUSTRATION No.  
ART\_2129-R4

Dual Fuel Engine, Kubota DF752

## Engine – Dual Fuel (continued)

ITEM	PART NO.	QTY	DESCRIPTION
27	21020	1	Bracket, Components
28	91177	1	Fuel Pump
29	6458	as req	Hose, Fuel, 5/16
30	7788	5	Hose Clamp, 5/16
31	8514	1	Fuel Filter
32	50015	2	Screw, M8 x 50
33	50048	2	Nut, M8 Nylock
34	7406	1	Hose Assembly, LP
35	HDW6894	1	Elbow, 90° Brass
36	91132	1	Valve, lockoff
37	91197	10 in	LP Hose, ½"
38	91198	60 IN	Radiator Hose, 3/8"
39	91232	6	Hose Clamp, #8
40	9833	1	LPG Regulator
41	91119	1	Solenoid, Throttle
42	HDW9247	1	Screw, Cap Socket Head, ¼–28 x 1.0"
43	HDW91231	2	Jamnut, ¼–28
44	50028	6	Screw, M6 x 20
45	50047	6	Nut, M6 Nylock
46	91375	1	Relay, Throttle
47	20212	1	Choke Bracket
48	9502	1	Choke Solenoid
49	9498	1	Choke Linkage
50	HDW91283	1	Screw, M6–1.0 x 25
51	20204	1	Spacer
52	9252	1	Throttle Linkage

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# DUAL FUEL MODELS

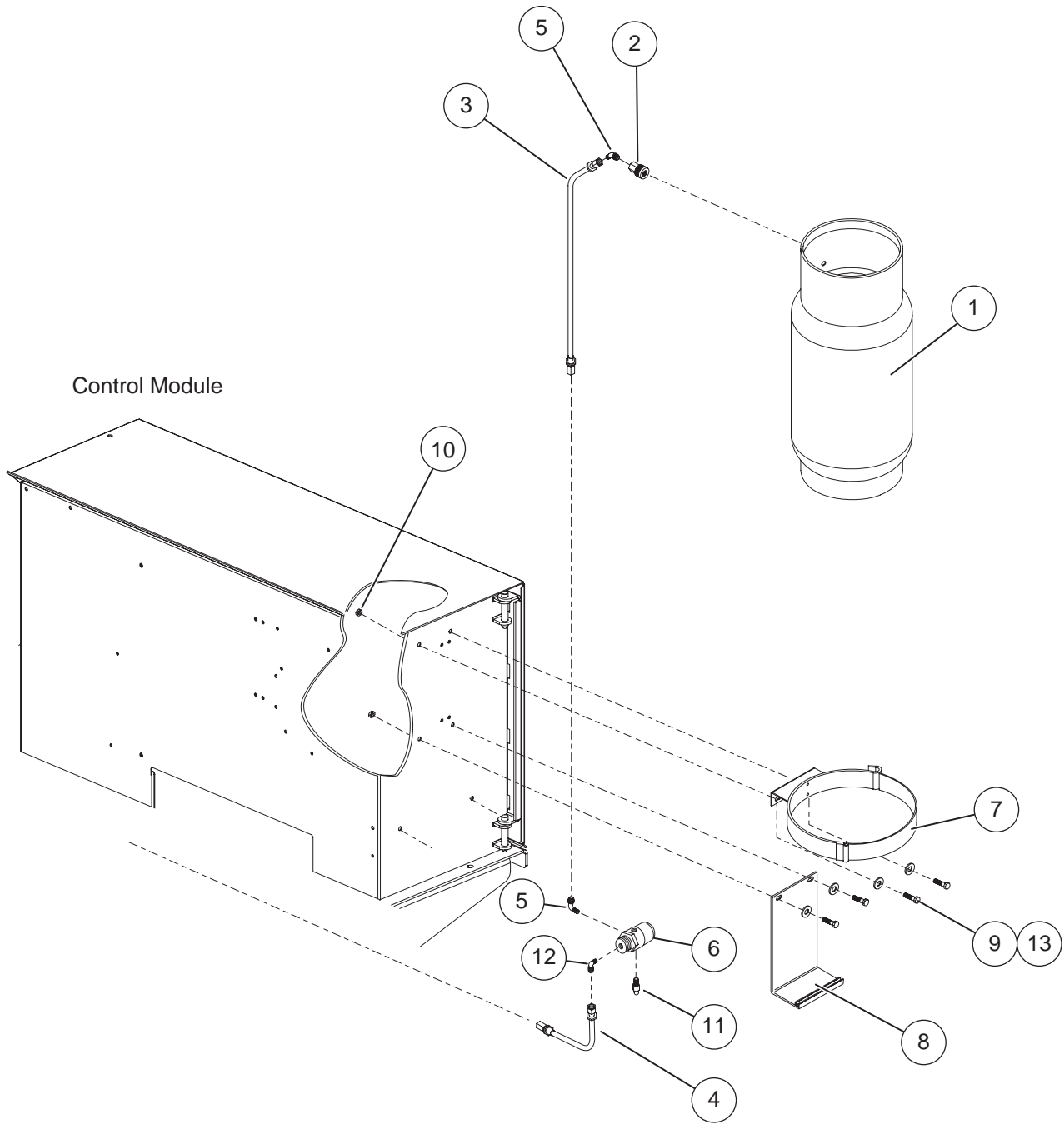


ILLUSTRATION No.  
ART\_2128 R2

Dual Fuel

LP Tank



## LP Tank – Dual Fuel

ITEM	PART NO.	QTY	DESCRIPTION
1	6859	1	LP Tank
2	6868	1	Quick Disconnect
3	6890	1	Hose Assembly, 30"
4	7406	1	Hose Assembly, 90"
5	HDW6894	2	Elbow, Brass, NPT to SAE 45°
6	6861	1	Bulkhead Filter
7	6860	1	Bracket, Tank Mount
8	19102	1	Tank Support Weldment
9	50031	4	Screw, M8 x 25
10	50048	4	Locknut, M8 Nylock
11	6938	1	Relief Valve
12	HDW6727	1	Elbow, Brass NPT to SAE 90
13	50001	4	Washer, M8 Flat

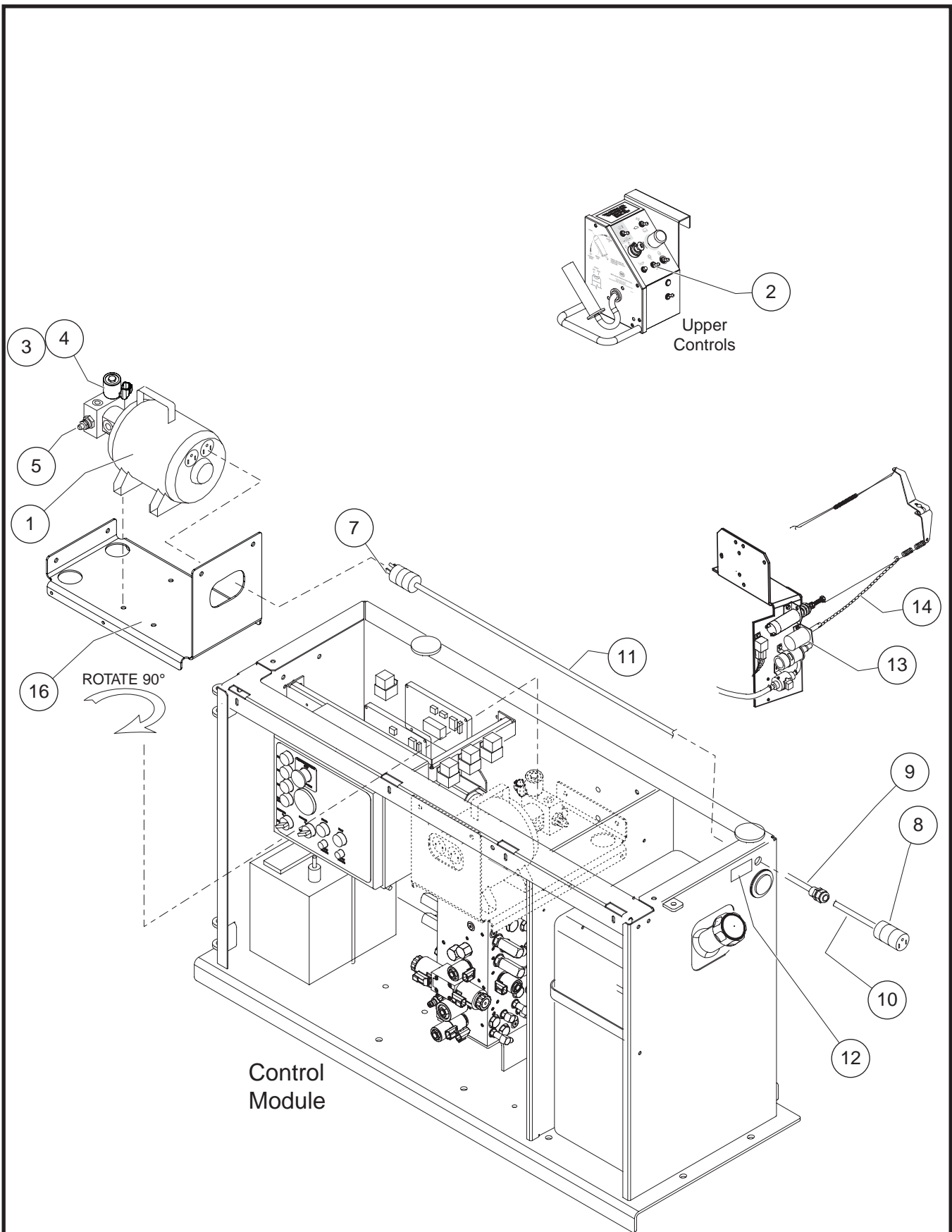
• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only





**RT MODELS**

 ILLUSTRATION No.  
ART\_2135R1

Generator Option

## Generator Option, RT

ITEM	PART NO.	QTY	DESCRIPTION
Refer to Section E for Hose Kit			
1	91550	1	Generator, 2000 Watt
2	5630	1	Switch, Toggle
3	91551	--	Valve, Solenoid, 2-way, n.c. -- included with item #1
4	91002	--	coil, 12V 10 Series -- included with item #1
5	91546	--	Needle Valve -- included with item #1
6	--	--	--
7	91544	1	Plug, Male, 3 Prong
8	91545	2	Receptacle, Female
9	7594	1	Strain Relief
10	--	--	--
11	7617	6 FT	Wire, 14GA, 3 conductor
12	91556	1	Label, AC Generator
13	9502	1	Solenoid, Generator-Throttle, Gas Engine
	91119	1	Solenoid, Generator-Throttle, Diesel Engine
14	91469	2 FT	Chain, Sash #8
15	92196	1	Harness, Engine Intermediate, Generator Option
16	16369	1	Bracket, Generator Mount

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only





## Wire Harness – Electric Models

ITEM	PART NO.	QTY	DESCRIPTION
1	92145	1	Harness, Main, Lower Control Box to Valve Manifold and Modules
2	92134	1	Harness, Main Harness to Level Manifold
3	92135	1	Harness, Main Harness to Down Valve, Axle Cylinders, Wheel Bypass
4	--	--	--
5	92137	1	Harness, Communication, Main Harness to Axle CAN-Tilt
6	92138	1	Harness, Communication, Axle CAN-Tilt Connection Adapter
7	92139	1	Harness, Communication, Axle CAN-Tilt to Boom Pivot CAN-Tilt
8	92140	1	Harness, Communication, Boom Pivot Angle CAN-Tilt Adapter
9	92141	1	Harness, Communication, Boom Pivot Angle CAN-Tilt to Platform Bottom
10	91780	1	Harness, Communication, Platform Bottom to Upper Control Box, Removable Control Box
	92196	1	Harness, Communication, Platform Bottom to Upper Control Box, Fixed Control Box
11	9441	55 ft	Cable, Power to Platform, 3084 (not shown--connects plug on module base to plug at platform)
		50 ft	Cable, Power to Platform, 2684 (not shown--connects plug on module base to plug at platform)
12	--	--	--
13	92143	1	Harness, Inside Upper Control Box Base -- Removable Control Box only
14	92146	1	Harness, Lower Control Box Interior
15	92193	1	Harness, Matrix Module to Joystick
16	92150	1	Cable, Master Disconnect to Fuse
17	92151	1	Cable, Fuse to Solenoid
18	92151	1	Cable, Solenoid to Motor Controller B+
19	92152	1	Cable, Red, Motor Controller B+ to Motor B+
20	92153	1	Cable, Black, Motor Controller M to Motor B-
21	92148	1	Cable, Battery+ to Master Disconnect
22	92149	1	Cable, Battery- to Motor Controller B-
23	6208	7	Cable, Battery Connection
24	92147	1	Harness, Emergency Down

• as req: as required

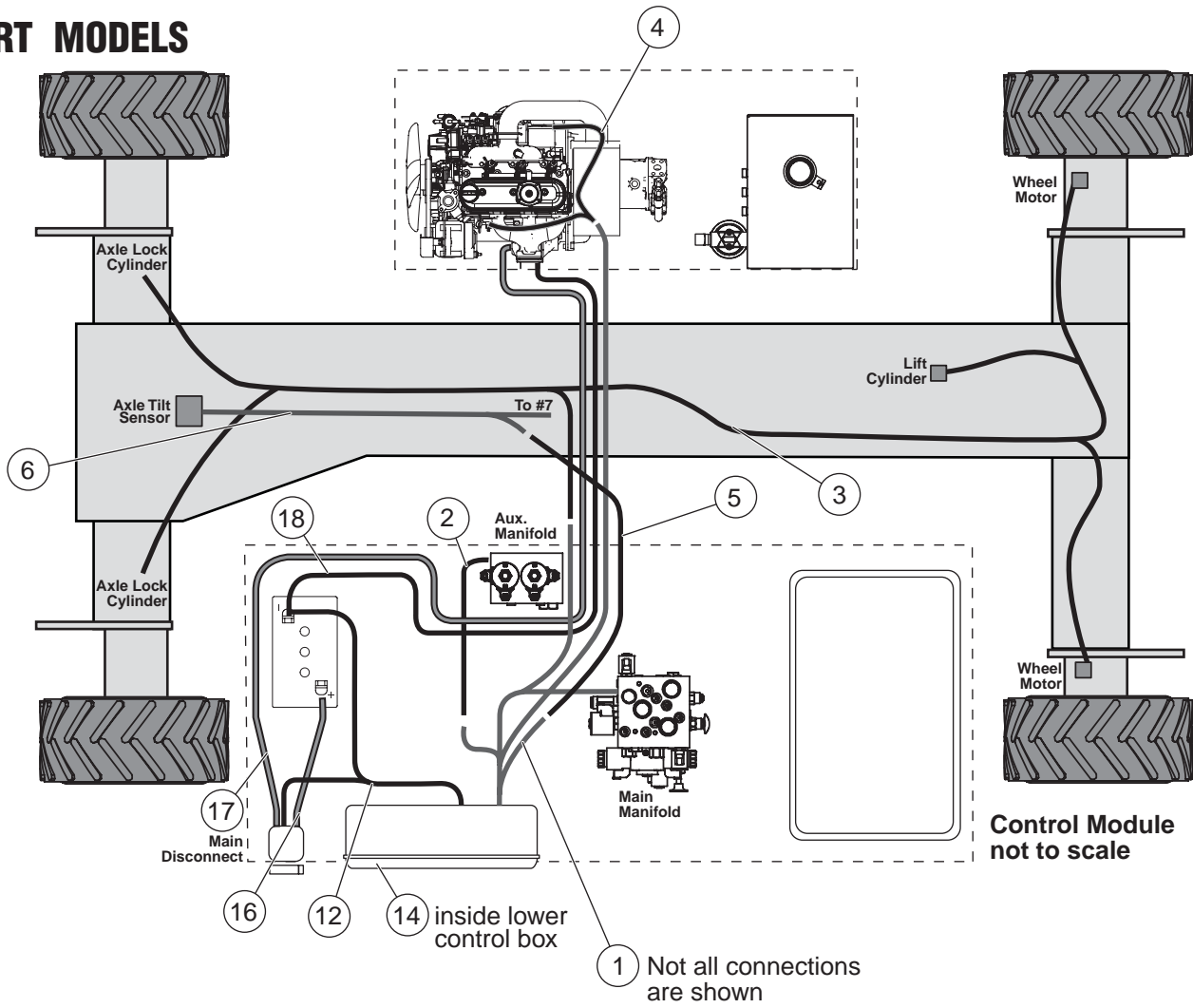
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• NS: Not a Stock item

• REF: Reference only



# RT MODELS



## UPPER CONTROLS

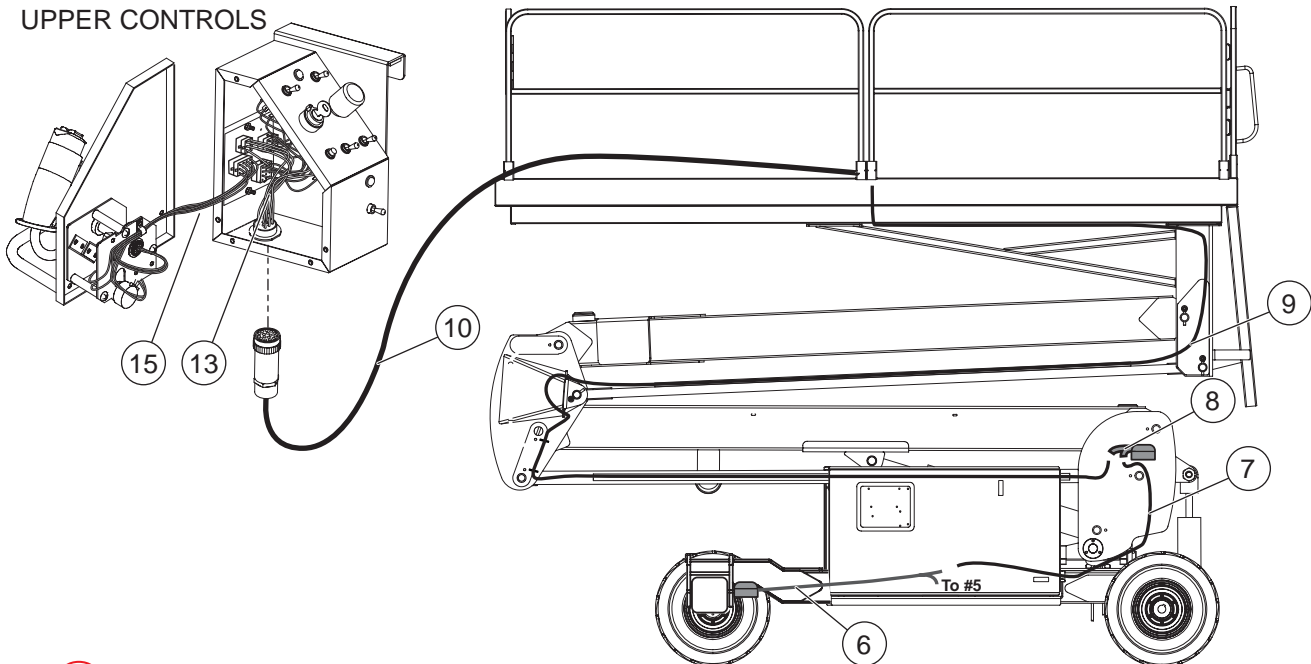


ILLUSTRATION No.  
ART\_3222

Speed Level™ Sigma Lift -- RT Models

Wire Harnesses

## Wire Harness – RT Models

ITEM	PART NO.	QTY	DESCRIPTION
1	92133	1	Harness, Main, Lower Control Box to Valve Manifold and Modules
2	92134	1	Harness, Main Harness to Level Manifold
3	92135	1	Harness, Main Harness to Down Valve, Axle Cylinders, Wheel Bypass
4	92136	1	Harness, Engine, Main Harness to Engine
5	92137	1	Harness, Communication, Main Harness to Axle CAN-Tilt
6	92138	1	Harness, Communication, Axle CAN-Tilt Connection Adapter
7	92139	1	Harness, Communication, Axle CAN-Tilt to Boom Pivot CAN-Tilt
8	92140	1	Harness, Communication, Boom Pivot Angle CAN-Tilt Adapter
9	92141	1	Harness, Communication, Boom Pivot Angle CAN-Tilt to Platform Bottom
10	91780	1	Harness, Communication, Platform Bottom to Upper Control Box, Removable Control Box
	92196	1	Harness, Communication, Platform Bottom to Upper Control Box, Fixed Control Box
11	9441	55 ft	Cable, Power to Platform, 3084 (not shown--connects plug on module base to plug at platform)
		50 ft	Cable, Power to Platform, 2684 (not shown--connects plug on module base to plug at platform)
12	92142	1	Harness, 12V Power Supply to Lower Control Box
13	92143	1	Harness, Inside Upper Control Box Base -- Removable Control Box only
14	92144	1	Harness, Lower Control Box Interior
15	92193	1	Harness, Matrix Module to Joystick
16	92154	1	Cable, Battery+ to Master Disconnect
17	92155	1	Cable, Master Disconnect to Engine Starter
18	92156	1	Cable, Battery- to Engine

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only

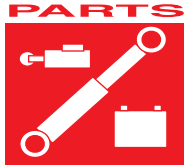


**NOTES:**

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# SECTION G

## DECALS, ANSI MODELS

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Decals, ES Models (continued) .....	G-5
Decals, RT Models .....	G-9
Decals, RT Models (continued) .....	G-11





2 3084ES **mec 3084ES** SPEED LEVEL™  
2684ES **mec 2684ES** SPEED LEVEL™



6 **WARNING**

- SHEET LOADING GATE MUST BE IN LOWERED LOCKED POSITION BEFORE OPERATING FROM PLATFORM.
- PLATFORM ENTRANCE MUST BE PROPERLY CLOSED AND ALL GUARDRAILS PROPERLY IN PLACE AND SECURED BEFORE OPERATING FROM PLATFORM.

FAILURE TO FOLLOW INSTRUCTIONS COULD CAUSE DEATH OR PERSONAL INJURY.

7 **WARNING**

INSPECT MACHINE AND MAKE SURE THAT IT IS OPERATING PROPERLY, THAT ALL NAME PLATE AND SAFETY AND CONTROL DECALS ARE IN PLACE AND LEGIBLE, AND THAT THE MACHINE IS IN ACCORDANCE WITH THE MANUFACTURER'S MAINTENANCE REQUIREMENTS CONTAINED IN THE OPERATION AND MAINTENANCE MANUAL AND THE DAILY SAFETY CHECKLIST.

OPERATE MACHINE WITH EXTREME CAUTION. WATCH FOR OBSTRUCTIONS WHICH MAY STRIKE PLATFORM, PERSONNEL, CONTROLS, OR MACHINE. OPERATE CONTROLS SLOWLY FOR SMOOTH PLATFORM MOTION.

FOR DRIVING WITH PLATFORM LOWERED:	OTHER HAZARDS
<ul style="list-style-type: none"> <li>• DO NOT EXCEED MAXIMUM PLATFORM OR EXTENSION LOAD LIMIT CAPACITY. LOAD TO BE UNIFORMLY DISTRIBUTED. PLACE LOAD NEAR CENTER OF PLATFORM WHEN POSSIBLE.</li> <li>• DO NOT DRIVE ON SIDE SLOPE IF PLATFORM IS OVER 5% OFF LEVEL.</li> <li>• DO NOT DRIVE UP OR DOWN A GRADE OF OVER 40%.</li> </ul>	<ol style="list-style-type: none"> <li>1. DO NOT EXCEED PLATFORM LOAD CAPACITY.</li> <li>2. DO NOT EXCEED MAXIMUM SIDE FORCE AND MAXIMUM NUMBER OF OCCUPANTS.</li> <li>3. DO NOT USE WITHOUT GUARD RAILS IN PLACE, AND ENTRY GATE PROPERLY SECURED.</li> <li>4. DO NOT USE IF WORK PLATFORM IS NOT WORKING PROPERLY OR IF ANY PART IS DAMAGED OR WORN.</li> <li>5. DO NOT USE NEAR MOVING VEHICLES OR CRANES.</li> <li>6. DO NOT STAND OR SIT ON GUARDRAILS. ALL PERSONNEL SHALL ALWAYS MAINTAIN FIRM FOOTING ON PLATFORM FLOOR.</li> <li>7. DO NOT USE WHILE UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.</li> <li>8. DO NOT OVERRIDE SAFETY DEVICES.</li> <li>9. DO NOT LEAVE MACHINE UNATTENDED WITH KEY IN THE SWITCH.</li> <li>10. DO NOT RAISE PLATFORM WHILE MACHINE IS ON A TRUCK, FORK-LIFT, OR OTHER DEVICE OR VEHICLE.</li> <li>11. DO NOT USE LADDER, SCAFFOLDING, OR OTHER DEVICES TO INCREASE SIZE OR WORKING HEIGHT OF PLATFORM.</li> <li>12. DO NOT ENTER OR EXIT PLATFORM WHILE IN MOTION.</li> <li>13. DO NOT RECHARGE BATTERIES NEAR SPARKS OR OPEN FLAME. BATTERIES EMIT HIGHLY EXPLOSIVE HYDROGEN GAS.</li> <li>14. DO NOT PERFORM SERVICE ON THE MACHINE WITHOUT PROPERLY SUPPORTING ELEVATING ASSEMBLY.</li> <li>15. DO NOT ATTACH OVERHANGING LOADS OR INCREASE PLATFORM SIZE.</li> </ol>

FOR DRIVING WITH PLATFORM ELEVATED:

- DRIVE ONLY ON A SMOOTH, FIRM, AND PLANAR SURFACE FREE OF OBSTRUCTIONS.
- DO NOT EXCEED MAXIMUM PLATFORM OR EXTENSION LOAD CAPACITY.
- LOAD MUST BE UNIFORMLY DISTRIBUTED.
- IF TILT WARNING LIGHT ILLUMINATES OR TILT ALARM SOUNDS LOWER PLATFORM AND RE-LEVEL.
- USE EXTREME CAUTION.

**IMPROPER OPERATION OF THIS MACHINE COULD CAUSE DEATH OR SERIOUS INJURY.**

8 **DANGER**

**YOU MUST NOT OPERATE THIS MACHINE:**  
UNLESS YOU HAVE BEEN AUTHORIZED TO USE AND TRAINED IN THE SAFE OPERATION OF THIS MACHINE. TRAINING INCLUDES COMPLETE KNOWLEDGE OF THE SAFETY AND OPERATION INSTRUCTIONS CONTAINED IN THE MANUFACTURER'S MANUAL, ANSI MANUAL OF RESPONSIBILITIES, YOUR EMPLOYER'S WORK RULES AND APPLICABLE GOVERNMENTAL REGULATIONS. AN UNAUTHORIZED AND UNTRAINED OPERATOR SUBJECTS THEMSELVES AND OTHERS TO DEATH OR SERIOUS INJURY.

**TIP-OVER HAZARDS**

- DO NOT DRIVE NEAR DROP-OFFS, HOLES, OPEN ELEVATOR SHAFTS, AND LOADING DOCKS.
- DO NOT ELEVATE PLATFORM ON UNEVEN OR SOFT SURFACES.
- DO NOT DRIVE ONTO UNEVEN OR SOFT SURFACES WHEN ELEVATED.
- DO NOT RAISE PLATFORM IN WINDY OR GUSTY CONDITIONS.

**ELECTROCUTION HAZARD**  
THIS MACHINE IS NOT INSULATED. MAINTAIN SAFE CLEARANCE FROM ELECTRICAL LINES AND APPARATUS. YOU MUST ALLOW FOR MACHINE SWAY, ROCK OR SAG AND ELECTRICAL LINES SWAYING. THIS MACHINE DOES NOT PROVIDE PROTECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR. YOU MUST MAINTAIN A CLEARANCE OF AT LEAST TEN (10) FEET BETWEEN ANY PART OF THIS MACHINE OR ITS LOAD AND ANY ELECTRICAL LINE OR APPARATUS CARRYING UP TO 50,000 VOLTS. ONE FOOT OF ADDITIONAL CLEARANCE IS REQUIRED FOR EVERY ADDITIONAL 30,000 VOLTS OR LESS.

**DEATH OR SERIOUS INJURY WILL RESULT FROM CONTACT OR INADEQUATE CLEARANCE**

**DEATH OR SERIOUS INJURY WILL RESULT FROM IMPROPER USE OF THIS EQUIPMENT**

9 **WARNING**

USE OR OPERATION OF AN UNSPECTED WORK PLATFORM COULD CAUSE DEATH, PERSONAL INJURY.

NEW	<ul style="list-style-type: none"> <li>• DO NOT OPERATE THIS WORK PLATFORM IF AN INSPECTION HAS NOT BEEN PERFORMED WITHIN 13 MONTHS OF THE LAST RECORDED INSPECTION DATE.</li> <li>• STAMP MONTH/DAY/YEAR NEXT TO APPROPRIATE YEAR AFTER EACH INSPECTION.</li> </ul>	6TH YEAR
1ST YEAR		7TH YEAR
2ND YEAR		8TH YEAR
3RD YEAR		9TH YEAR
4TH YEAR		10TH YEAR

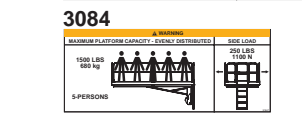
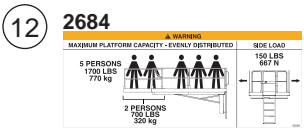
NOTICE  
CHANGE OF OWNERSHIP OF THIS WORK PLATFORM MUST BE REPORTED TO MANUFACTURER:  
MEC Aerial Platform Sales Corp.  
4700 E. Jensen Avenue  
Fresno, California 93726 Phone: (559) 263-9626

10 **WARNING**

- LANYARD ANCHORAGE POINTS ARE RECOMMENDED FOR WORK POSITIONING RESTRAINTS ONLY.

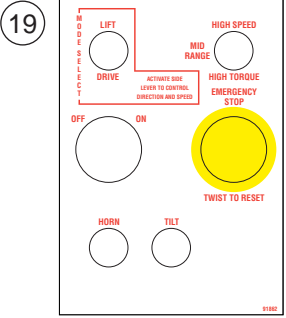
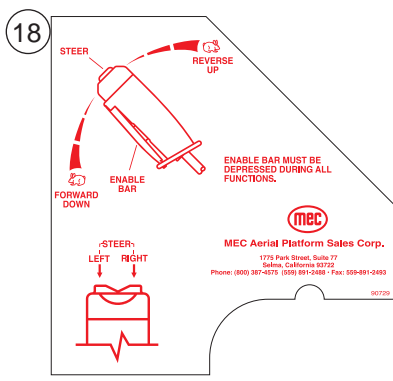
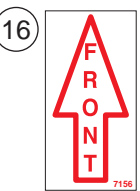
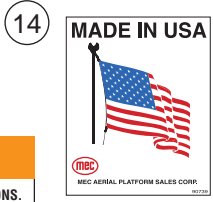
USE OF FALL ARREST SYSTEMS ATTACHED TO ANCHORAGE POINTS ON MOBILE EQUIPMENT MAY CAUSE MACHINE TO TIP, RESULTING IN SERIOUS INJURY OR DEATH.

11 **CERTIFIED LANYARD ANCHORAGE POINT**

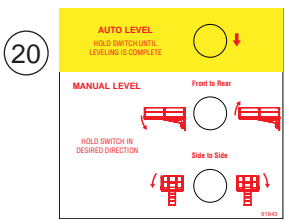


13 **WARNING**

DISTANCE FROM GROUND TO LADDER WILL VARY WITH GROUND VARIATIONS. CHECK DISTANCE BEFORE LEAVING PLATFORM.



17 **LOCATE CONTROL BOX HERE FOR NORMAL OPERATION OF THIS UNIT**



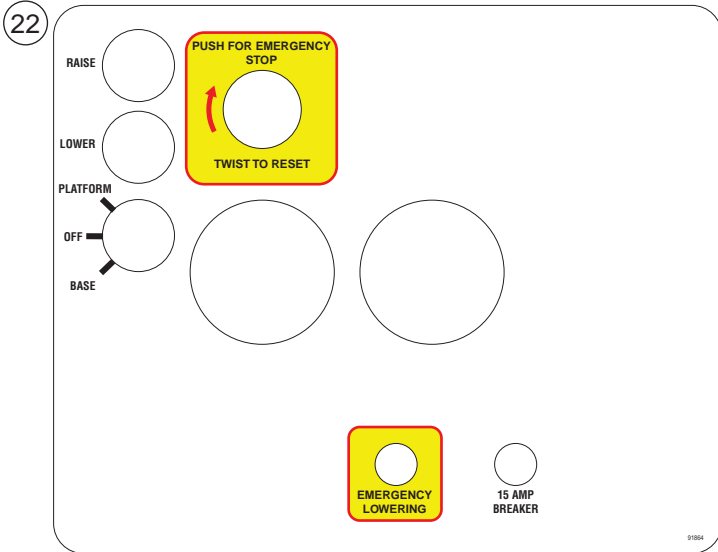
21 **THIS MACHINE HAS BEEN CONSTRUCTED IN ACCORDANCE WITH CAN B354.2-01.**

## Decals, ES Models, ANSI Specification

ITEM	PART NO.	QTY	DESCRIPTION
1	90719	1	Decal, MEC Oval
2	91987	2	<b>3084ES</b> -- Decal, MEC 3084ES
	92232	2	<b>2684ES</b> -- Decal, MEC 3084ES
3	--	--	--
4	--	--	--
5	8911	1	Decal, Manuals Inside
6	91869	1	Decal, Warning, Sheet Loading
7	91846	1	Decal, Warning Panel
8	91845	1	Decal, Danger, Electric - Tipover - Wind Rating
9	90718	1	Warning, Inspection Report
10	8606	1	Warning, Lanyard <b>(option)</b>
11	8605	5	Decal, Anchorage Point <b>(option)</b>
12	91847	2	<b>3084</b> -- Decal, Capacity, 1500 LB
	92228	2	<b>2684</b> -- Decal, Capacity, 1700 LB
13	91849		Decal, Ladder Clearance
14	90739	1	Decal, Made in USA
15	91850	4	Decal, Crush Hazard
16	7156	1	Decal, Front
17	7155	1	Decal, Locate Control Box Here
18	90729	1	Decal, Upper Control Box, Side
19	91862	1	Decal, Upper Controls
20	91843	1	Decal, Level Controls
21	90794	1	CAN B354 (Canadian Only)

... continued

**ES MODELS - ANSI**

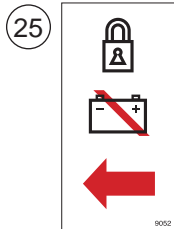


23

# Quad-Trax™ 4wd

24

2684 PLATFORM CAPACITY 1700 LBS (770kg) <small>92122</small>	3084 PLATFORM CAPACITY 1500 LBS (680kg) <small>91848</small>
---	---



26

**WARNING**

BATTERIES PRODUCE EXPLOSIVE GAS. CHARGE BATTERIES IN WELL VENTILATED AREA. DO NOT EXPOSE TO SPARKS OR FLAMES.

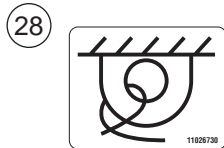
8779

27

**WARNING**

- EACH REPLACEMENT BATTERY MUST WEIGH A MINIMUM OF 111 POUNDS / 50.3 kg
- FAILURE TO MEET MINIMUM WEIGHT REQUIREMENT MAY CAUSE MACHINE INSTABILITY.

91774



29

**WARNING**

DO NOT POWERWASH OR SPRAY ELECTRONIC COMPONENTS OR CONNECTORS. MOISTURE MAY CAUSE DAMAGE AND/OR ERRATIC OPERATION

90732

30

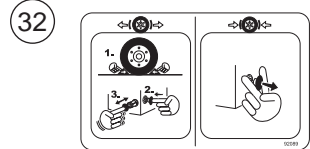
**HYDRAULIC OIL**

8873

31

**BATTERY CHARGER**

8670



33

**INFLATE TO TIRE MANUFACTURER'S MAX. SPECIFICATIONS OR SEE SERVICE MANUAL**

8902

34

**BATTERY CHARGER INDICATOR**

	YELLOW	80%	100%	FAULT
No AC power to charger	OFF	OFF	OFF	OFF
Normal operation, charger is charging	ON	OFF	OFF	OFF
Normal, battery is over 80% charged	ON	ON	OFF	OFF
Normal, battery is 100% charged	OFF	OFF	ON	OFF

Please see service manual for additional information.

91856

36

**WARNING**

- REPLACE TIRES WITH MANUFACTURER'S EQUIPMENT ONLY.
- FAILURE TO USE MANUFACTURER'S TIRES MAY CAUSE MACHINE INSTABILITY.
- REFER TO SERVICE AND PARTS MANUAL FOR REPLACEMENT PART NUMBER.

90725

37

**POWER TO PLATFORM**

90751

38

<b>mec</b> MEC AERIAL PLATFORM SALES CORP.		MFG. DATE XX/XX	MODEL NUMBER XXXXXX	SERIAL NUMBER XXXXXXX	MODEL YEAR 20XX
MAX. PLATFORM CAPACITY INCLUDING PERSONS XXX kg = X PERSONS + XXX kg EQUIPMENT XXX kg = X PERSONS + XXX kg EQUIPMENT		ELECTRICAL VOLTAGE XX VOLTS		MAX. MANUAL FORCE XXX LBS XXX N	
MAX. DRIVE HEIGHT X X FT X.X m	MACHINE WEIGHT XXXX LBS XXXX kg	MAX. GROUND PRESSURE PER WHEEL X.X PSI X.X kg/cm <sup>2</sup>	MAX. LOAD PER WHEEL XXX LBS XXX kg	MAX. HYDRAULIC SYSTEM PRESSURE XXXX PSI XXXX bar	
MAX. PLATFORM HEIGHT X X FT X.X m	MAX. WIND SPEED X MPH X m/s	THIS MACHINE HAS BEEN CONSTRUCTED IN ACCORDANCE WITH SECTION 4 OF ANSI A82.6-2006 COVERED BY US PAT. #5,478,050 & CANADIAN PAT. #2,115,870			

39

**GREASE PORT**  
(Slide to open)

91870

ILLUSTRATION No.  
ART\_3125

Sigma Level

ANSI Speed Level™ ES Models: Sheet 2 of 4

Decals

## Decals, ES Models, ANSI Specification (continued)

ITEM	PART NO.	QTY	DESCRIPTION
22	91864	1	Decal, Lower Controls
23	91266	2	Decal, Quad Trax 4wd
24	91848	1	<b>3084</b> -- Decal, Platform Capacity, Small
	92122	1	<b>2684</b> -- Decal, Platform Capacity, Small
25	9052	1	Decal, Battery Disconnect And Lock
26	8779	1	Warning, Battery, Explosive Gas
27	91774	1	Warning, Battery Replacement
28	11026730	2	Tie Down Point
29	90732	1	Decal, Warning, Pressure Wash
30	6873	1	Decal, Hydraulic Oil
31	90750	1	Decal, Battery Charger
32	92089	1	Decal, Brake Release
33	8502	4	Decal, Tire Inflation
34	91956	1	Decal, Battery Charge Indicator
35	--	--	--
36	90725	4	Decal, Warning, Tire Replacement
37	90751	1	Decal, Power To Platform
38	91592	1	Serial Plate
39	91870	1	Decal, Greaseport

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# ES MODELS - ANSI

INSIDE CASE

9

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OPTION

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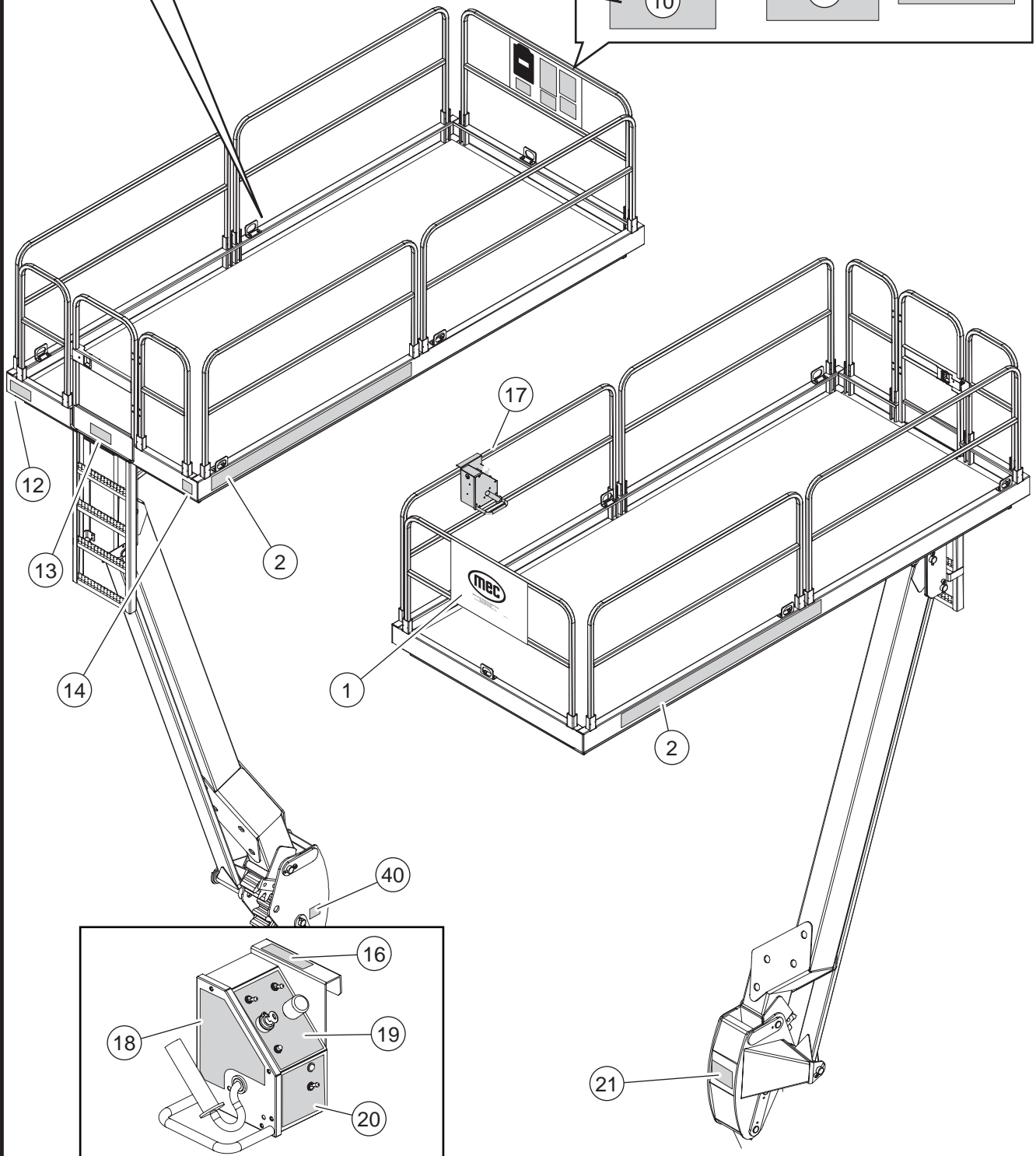


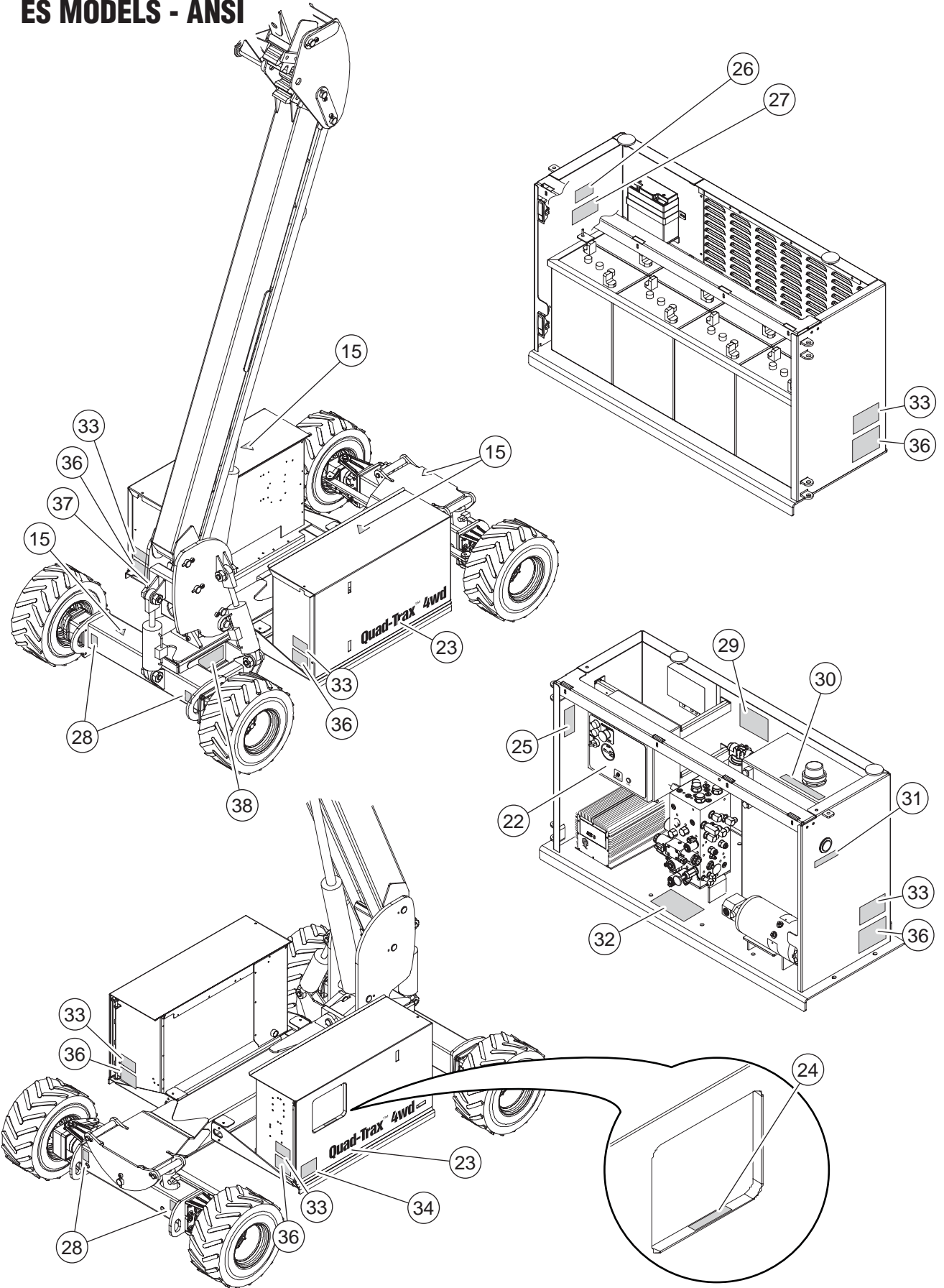
ILLUSTRATION No.  
ART\_3126

Sigma Level

ANSI Speed Level™ ES Models: Sheet 3 of 4

Decals

# ES MODELS - ANSI



**MBC**  
ILLUSTRATION No.  
ART\_3127

Sigma Level

ANSI Speed Level™ ES Models: Sheet 4 of 4

Decals

# RT MODELS - ANSI



## 3084RT **mecc** 3084RT SPEED LEVEL™ 2684RT **mecc** 2684RT SPEED LEVEL™



**WARNING**

- SHEET LOADING GATE MUST BE IN LOWERED LOCKED POSITION BEFORE OPERATING FROM PLATFORM.
- PLATFORM ENTRANCE MUST BE PROPERLY CLOSED AND ALL GUARDRAILS PROPERLY IN PLACE AND SECURED BEFORE OPERATING FROM PLATFORM.

FAILURE TO FOLLOW INSTRUCTIONS COULD CAUSE DEATH OR SERIOUS INJURY.

**WARNING**

INSPECT MACHINE AND MAKE SURE THAT IT IS OPERATING PROPERLY, THAT ALL NAME PLATE AND SAFETY AND CONTROL DECALS ARE IN PLACE AND LEGIBLE, AND THAT THE MACHINE IS IN ACCORDANCE WITH THE MANUFACTURER'S MAINTENANCE REQUIREMENTS CONTAINED IN THE OPERATION AND MAINTENANCE MANUAL AND THE DAILY SAFETY CHECKLIST.

OPERATE MACHINE WITH EXTREME CAUTION. WATCH FOR OBSTRUCTIONS WHICH MAY STRIKE PLATFORM, PERSONNEL, CONTROLS, OR MACHINE. OPERATE CONTROLS SLOWLY FOR SMOOTH PLATFORM MOTION.

FOR DRIVING WITH PLATFORM LOWERED:	OTHER HAZARDS
<ul style="list-style-type: none"> <li>DO NOT EXCEED MAXIMUM PLATFORM OR EXTENSION LOAD LIMIT CAPACITY. LOAD TO BE UNIFORMLY DISTRIBUTED, PLACE LOAD NEAR CENTER OF PLATFORM WHEN POSSIBLE.</li> <li>DO NOT DRIVE ON SIDE SLOPE IF PLATFORM IS OVER 5% OFF LEVEL.</li> <li>DO NOT DRIVE UP OR DOWN A GRADE OF OVER 40%.</li> </ul>	<ol style="list-style-type: none"> <li>DO NOT EXCEED PLATFORM LOAD CAPACITY.</li> <li>DO NOT EXCEED MAXIMUM SIDE FORCE AND MAXIMUM NUMBER OF OCCUPANTS.</li> <li>DO NOT USE WITHOUT GUARD RAILS IN PLACE, AND ENTRY GATE PROPERLY SECURED.</li> <li>DO NOT USE IF WORK PLATFORM IS NOT WORKING PROPERLY OR IF ANY PART IS DAMAGED OR WORKS LOOSE.</li> <li>DO NOT USE NEAR MOVING VEHICLES OR CRANES.</li> <li>DO NOT STAND OR SIT ON GUARDRAILS. ALL PERSONNEL SHALL ALWAYS MAINTAIN FIRM FOOTING ON PLATFORM FLOOR.</li> <li>DO NOT USE WHILE UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.</li> <li>DO NOT OVERRIDE SAFETY DEVICES.</li> <li>DO NOT LEAVE MACHINE UNATTENDED WITH KEY IN THE SWITCH.</li> <li>DO NOT RAISE PLATFORM WHILE MACHINE IS ON A TRUCK, FORKLIFT, OR OTHER DEVICE OR VEHICLE.</li> <li>DO NOT USE LADDER, SCAFFOLDING, OR OTHER DEVICES TO INCREASE SIZE OR WORKING HEIGHT OF PLATFORM.</li> <li>DO NOT ENTER OR EXIT PLATFORM WHILE IN MOTION.</li> <li>DO NOT RECHARGE BATTERIES NEAR SPARKS OR OPEN FLAME. BATTERIES EMIT HIGHLY EXPLOSIVE HYDROGEN GAS.</li> <li>DO NOT PERFORM SERVICE ON THE MACHINE WITHOUT PROPERLY SUPPORTING ELEVATING ASSEMBLY.</li> <li>DO NOT ATTACH OVERHANGING LOADS OR INCREASE PLATFORM SIZE.</li> </ol>

**FOR DRIVING WITH PLATFORM ELEVATED:**

- DRIVE ONLY ON A SMOOTH, FIRM, AND PLANAR SURFACE FREE OF OBSTRUCTIONS.
- DO NOT EXCEED MAXIMUM PLATFORM OR EXTENSION LOAD CAPACITY.
- LOAD MUST BE UNIFORMLY DISTRIBUTED.
- IF TILT WARNING LIGHT ILLUMINATES OR TILT ALARM SOUNDS LOWER PLATFORM AND RE-LEVEL.
- USE EXTREME CAUTION.

**IMPROPER OPERATION OF THIS MACHINE COULD CAUSE DEATH OR SERIOUS INJURY.**

**DANGER**

**YOU MUST NOT OPERATE THIS MACHINE:**  
UNLESS YOU HAVE BEEN AUTHORIZED TO USE AND TRAINED IN THE SAFE OPERATION OF THIS MACHINE.

TRAINING INCLUDES COMPLETE KNOWLEDGE OF THE SAFETY AND OPERATION INSTRUCTIONS CONTAINED IN THE MANUFACTURER'S MANUAL, ANSI MANUAL OF RESPONSIBILITIES, YOUR EMPLOYER'S WORK RULES AND APPLICABLE GOVERNMENTAL REGULATIONS.

AN UNAUTHORIZED AND UNTRAINED OPERATOR SUBJECTS THEMSELF AND OTHERS TO DEATH OR SERIOUS INJURY.

TIP-OVER HAZARDS	ELECTROCUTION HAZARD
<ul style="list-style-type: none"> <li>DO NOT DRIVE NEAR DROP-OFFS, HOLES, OPEN ELEVATOR SHAFTS, AND LOADING DOCKS.</li> <li>DO NOT ELEVATE PLATFORM ON UNEVEN OR SOFT SURFACES.</li> <li>DO NOT DRIVE ONTO UNEVEN OR SOFT SURFACES WHEN ELEVATED.</li> <li>DO NOT RAISE PLATFORM IN WINDY OR GUSTY CONDITIONS.</li> </ul>	<p>THIS MACHINE IS NOT INSULATED.</p> <p>MAINTAIN SAFE CLEARANCE FROM ELECTRICAL LINES AND APPARATUS. YOU MUST ALLOW FOR MACHINE SWAY, ROCK OR SAG AND ELECTRICAL LINES SWAYING.</p> <p>THIS MACHINE DOES NOT PROVIDE PROTECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR.</p> <p>YOU MUST MAINTAIN A CLEARANCE OF AT LEAST TEN (10) FEET BETWEEN ANY PART OF THIS MACHINE OR ITS LOAD AND ANY ELECTRICAL LINE OR APPARATUS CARRYING UP TO 50,000 VOLTS. ONE FOOT OF ADDITIONAL CLEARANCE IS REQUIRED FOR EVERY ADDITIONAL 30,000 VOLTS OR LESS.</p>

**DEATH OR SERIOUS INJURY WILL RESULT FROM CONTACT OR INADEQUATE CLEARANCE**

**WARNING**

USE OR OPERATION OF AN UNSPECTED WORK PLATFORM COULD CAUSE DEATH, PERSONAL INJURY

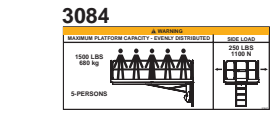
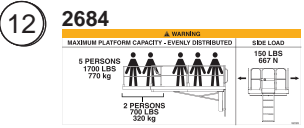
NEW	1ST YEAR	2ND YEAR	3RD YEAR	4TH YEAR	5TH YEAR	6TH YEAR	7TH YEAR	8TH YEAR	9TH YEAR	10TH YEAR
	DO NOT OPERATE THIS WORK PLATFORM IF AN INSPECTION HAS NOT BEEN PERFORMED WITHIN 13 MONTHS OF THE LAST RECORDED INSPECTION DATE.									
		STAMP MONTH/DAY/YEAR NEXT TO APPROPRIATE YEAR AFTER EACH INSPECTION.								
			NOTICE							
			CHANGE OF OWNERSHIP OF THIS WORK PLATFORM MUST BE REPORTED TO MANUFACTURER:							
			MEC Aerial Platform Sales Corp. 4780 E. Johnson Avenue Fresno, California 93725 Phone: (559) 263-6626							

**WARNING**

- LANYARD ANCHORAGE POINTS ARE RECOMMENDED FOR WORK POSITIONING RESTRAINTS ONLY.

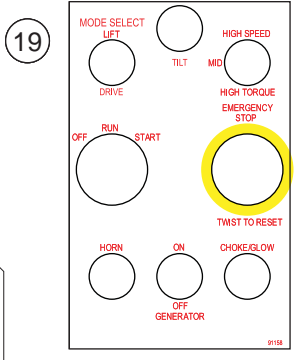
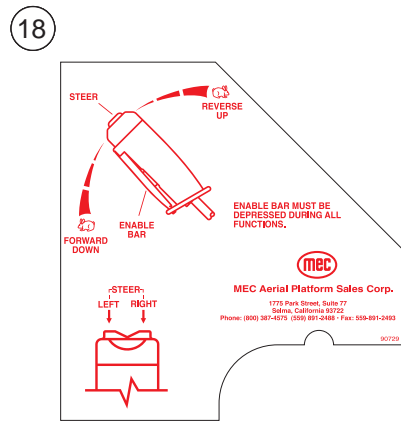
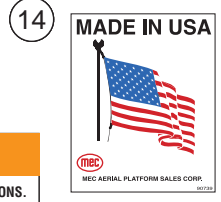
USE OF FALL ARREST SYSTEMS ATTACHED TO ANCHORAGE POINTS ON MOBILE EQUIPMENT MAY CAUSE MACHINE TO TIP, RESULTING IN SERIOUS INJURY OR DEATH.

**CERTIFIED LANYARD ANCHORAGE POINT**



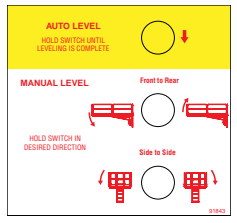
**WARNING**

DISTANCE FROM GROUND TO LADDER WILL VARY WITH GROUND VARIATIONS. CHECK DISTANCE BEFORE LEAVING PLATFORM.



**17**

LOCATE CONTROL BOX HERE FOR NORMAL OPERATION OF THIS UNIT



**21**

THIS MACHINE HAS BEEN CONSTRUCTED IN ACCORDANCE WITH CAN B354.2-01.

MEC ILLUSTRATION No. ART\_3128

Sigma Level

ANSI Speed Level™ RT Models: Sheet 1 of 4

Decals



## Decals, RT Models, ANSI Specification

ITEM	PART NO.	QTY	DESCRIPTION
1	90719	1	Decal, MEC Oval
2	91990	2	<b>3084RT</b> -- Decal, SPEED LEVEL
	92231	2	<b>2684RT</b> -- Decal, SPEED LEVEL
3	--	--	--
4	--	--	--
5	8911	1	Decal, Manuals Inside
6	91869	1	Decal, Warning, Sheet Loading
7	91846	1	Decal, Warning Panel
8	91845	1	Decal, Danger, Electric - Tipover - Wind Rating
9	90718	1	Warning, Inspection Report
10	8606	1	Warning, Lanyard ( <b>option</b> )
11	8605	5	Decal, Anchorage Point ( <b>option</b> )
12	91847	2	<b>3084</b> -- Decal, Capacity, 1500 LB
	92228	2	<b>2684</b> -- Decal, Capacity, 1700 LB
13	91849	1	Decal, Ladder Clearance
14	90739	1	Decal, Made in USA
15	91850	4	Decal, Crush Hazard
16	7156	1	Decal, Front
17	7155	1	Decal, Locate Control Box Here
18	90729	1	Decal, Upper Control Box, Side
19	91158	1	Decal, Upper Controls
20	91843	1	Decal, Level Controls
21	90794	1	CAN B354 (Canadian Only)

... continued

• as req: as required

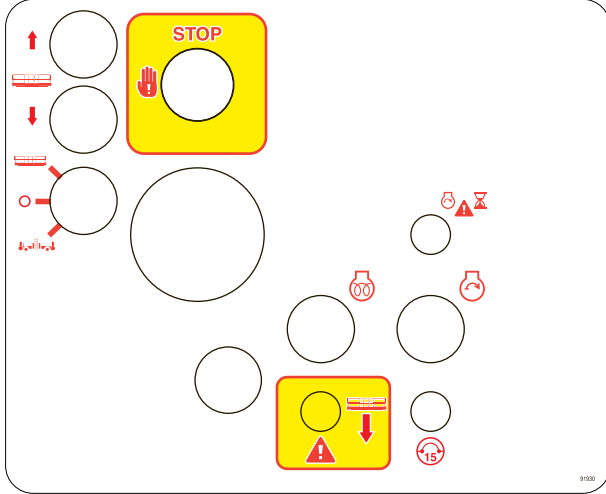
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• NS: Not a Stock item

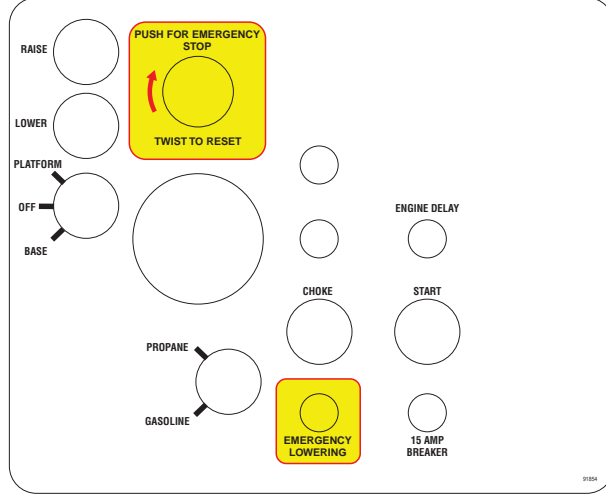
• REF: Reference only



22 DIESEL



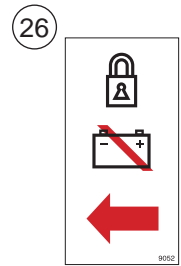
23 DUAL FUEL



24 **Quad-Trax™ 4wd**

25 **2684**  
PLATFORM CAPACITY  
1700 LBS (770kg)

**3084**  
PLATFORM CAPACITY  
1500 LBS (680kg)



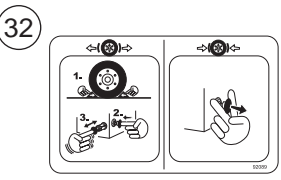
27 **HYDRAULIC OIL**

28 **POWER TO PLATFORM**

29 **WARNING**  
BATTERIES PRODUCE EXPLOSIVE GASES. CHARGE BATTERIES IN WELL VENTILATED AREA DO NOT EXPOSE TO SPARKS OR FLAMES.

30 **WARNING**  
DO NOT POWERWASH OR SPRAY ELECTRONIC COMPONENTS OR CONNECTORS. MOISTURE MAY CAUSE DAMAGE AND/OR ERRATIC OPERATION

31 **INFLATE TO TIRE MANUFACTURER'S MAX. SPECIFICATIONS OR SEE SERVICE MANUAL**



34 **WARNING**

- REPLACE TIRES WITH MANUFACTURER'S EQUIPMENT ONLY.
- FAILURE TO USE MANUFACTURER'S TIRES MAY CAUSE MACHINE INSTABILITY.
- REFER TO MAINTENANCE MANUAL FOR REPLACEMENT PART NUMBER.

35 **DUAL FUEL WARNING**  
L.P.G.

1. NO SMOKING - WHILE CHANGING TANKS.
2. "MOUNT TANKS PROPERLY" USING HOLES IN COLLAR FOR HORIZONTAL MOUNTING AND SLOT FOOTINGS FOR VERTICAL MOUNTING TO INSURE FULL USAGE.
3. OPEN VALVE SLOWLY SO THAT HOSE AND TANK PRESSURE CAN EQUALIZE OR VALVE MAY SLUG.
4. CLOSE VALVE BEFORE DISCONNECTING AND USE UP FUEL STILL IN LINE.
5. FOR PROPER USE OF THE L.P. SYSTEM, THE USE OF FUEL MANUFACTURED TO NATURAL GAS PROCESSORS ASSN. SPECIFICATIONS - "HD-6" - IS RECOMMENDED.

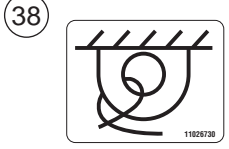
36 **DUAL FUEL**  
**GASOLINE ONLY**

39

MEC AERIAL PLATFORM SALES CORP.		MFG. DATE	MODEL NUMBER	SERIAL NUMBER	MODEL YEAR
MAX. PLATFORM CAPACITY INCLUDING PERSONS		XXXX	XXXXXX	XXXXXXXXXX	20XX
XXX kg = X PERSONS = XXX kg EQUIPMENT	ELECTRICAL VOLTAGE				
XXX kg = X PERSONS = XXX kg EQUIPMENT	XX VOLTS				
MAX. DRIVE HEIGHT	MACHINE WEIGHT	MAX. MANUAL FORCE			
X X FT	XXXX LBS	XXX LBS			
X X m	XXXX kg	XXX N			
MAX. PLATFORM HEIGHT	MAX. WIND SPEED	MAX. GROUND PRESSURE PER WHEEL	MAX. LOAD PER WHEEL	MAX. HYDRAULIC SYSTEM PRESSURE	
X X FT	X MPH	X X PSI	XXX LBS	XXX PSI	
X X m	X m/s	X X kg/cm <sup>2</sup>	XXX kg	XXXX bar	

THIS MACHINE HAS BEEN CONSTRUCTED IN ACCORDANCE WITH SECTION 4 OF ANSI A92.6-2006. COVERED BY US PAT. #6,478,952 & CANADIAN PAT. #2,115,870

37 **DIESEL**  
**DIESEL ONLY**



40 **GREASE PORT**  
(Slide to open)

## Decals, RT Models, ANSI Specification (continued)

ITEM	PART NO.	QTY	DESCRIPTION
22	91930	1	Decal, Lower Controls <b>DIESEL</b>
23	91854	1	Decal, Lower Controls <b>DUAL FUEL</b>
24	91266	2	Decal, Quad Trax 4wd
25	91848	1	<b>3084</b> -- Decal, Platform Capacity, Small
	92122	1	<b>2684</b> -- Decal, Platform Capacity, Small
26	9052	1	Decal, Battery Disconnect And Lock
27	6873	1	Decal, Hydraulic Oil
28	90751	1	Decal, Power To Platform
29	8779	1	Warning, Battery, Explosive Gas
30	90732	1	Decal, Warning, Pressure Wash
31	8502	4	Decal, Tire Inflation
32	92089	1	Decal, Brake Release
33	--	--	--
34	8519	4	Decal, Warning, Tire Replacement
35	6948	1	Decal, Warning, LPG <b>DUAL FUEL</b>
36	6872	1	Decal, Gasoline Only <b>DUAL FUEL</b>
37	9378	1	Decal, Diesel Only <b>DIESEL</b>
38	11026730	2	Tie Down Point
39	90751	1	Serial Plate
40	91870	1	Decal, Grease Port

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# RT MODELS - ANSI

INSIDE CASE

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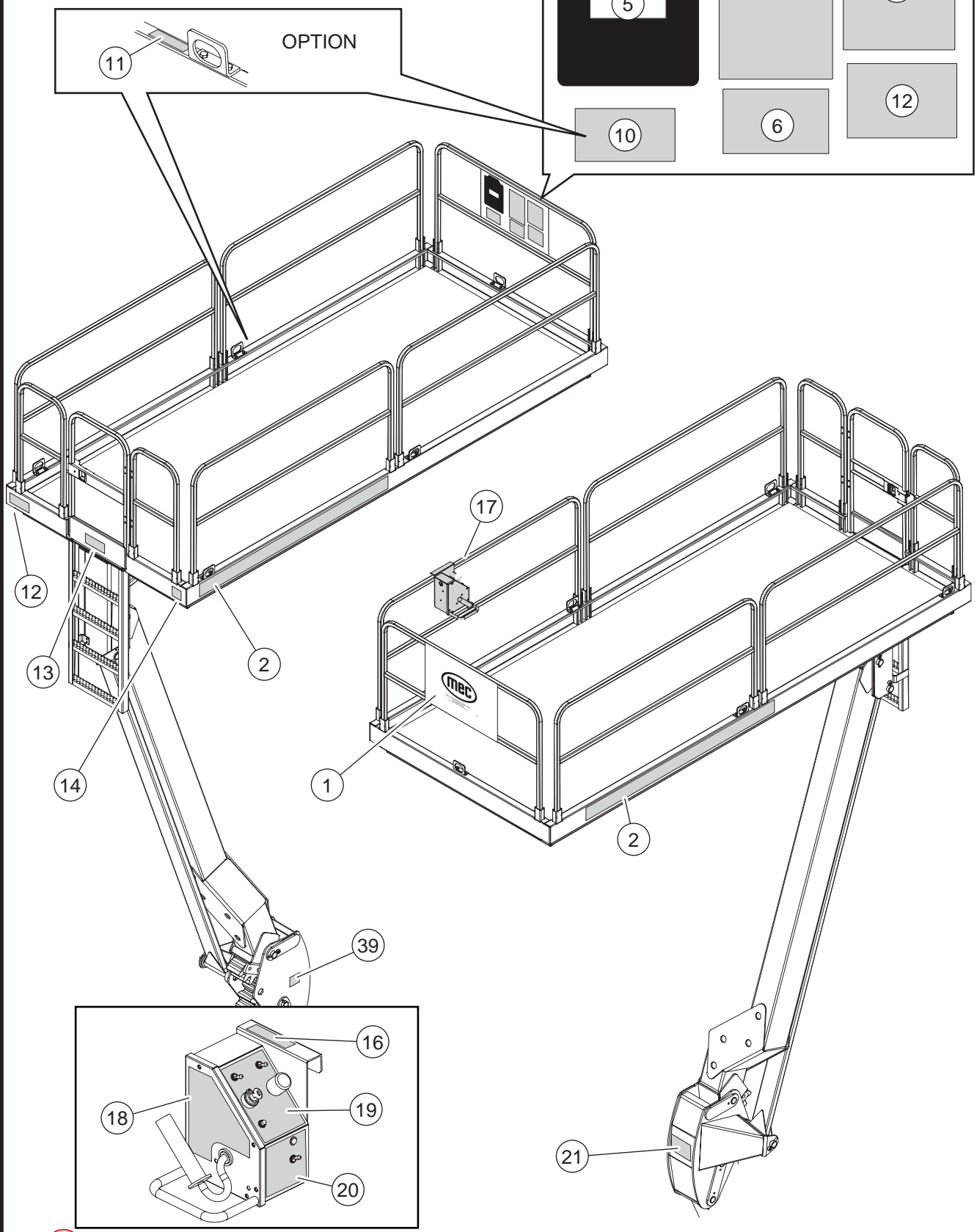
OPTION

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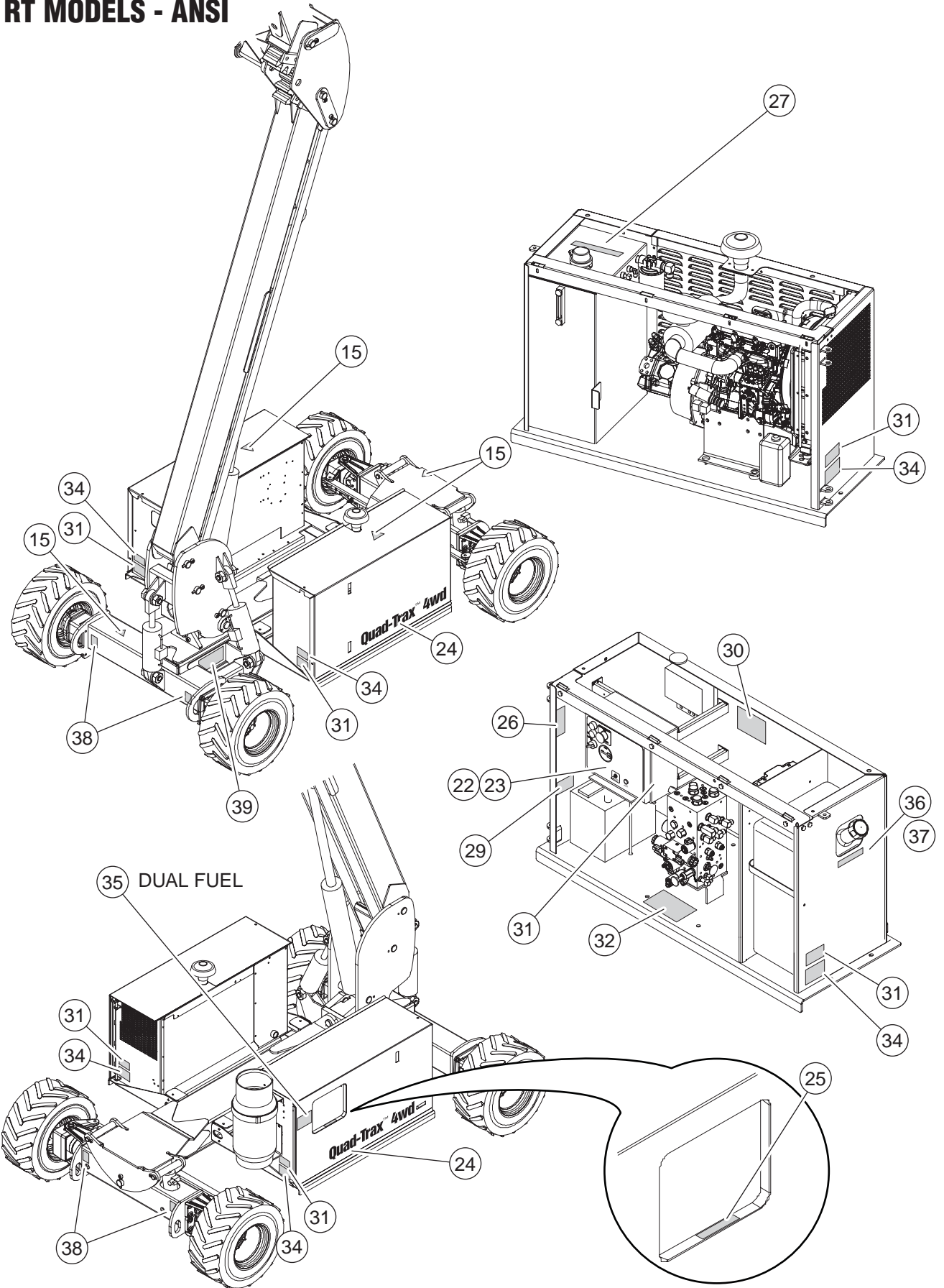
**mec**  
ILLUSTRATION No.  
ART\_3130

Sigma Level

ANSI Speed Level™ RT Models: Sheet 3 of 4

Decals

# RT MODELS - ANSI



MBC  
ILLUSTRATION No.  
ART\_3131

Sigma Level

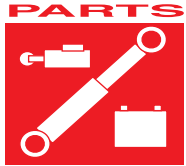
ANSI Speed Level™ RT Models: Sheet 4 of 4

Decals

**NOTES:**

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# SECTION H

## DECALS, CE MODELS

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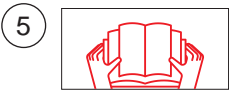
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Decals, ES Models (continued) .....	H-5
Decals, RT Models .....	H-9
Decals, RT Models (continued) .....	H-11



# ES MODELS - CE



3084ES **mecc 3084ES** SPEED LEVEL™  
 2684ES **mecc 2684ES** SPEED LEVEL™



**WARNING**

- SHEET LOADING GATE MUST BE IN LOWERED LOCKED POSITION BEFORE OPERATING FROM PLATFORM.
- PLATFORM ENTRANCE MUST BE PROPERLY CLOSED AND ALL GUARDRAILS PROPERLY IN PLACE AND SECURED BEFORE OPERATING FROM PLATFORM.

FAILURE TO FOLLOW INSTRUCTIONS COULD CAUSE DEATH OR PERSONAL INJURY.

**WARNING**

INSPECT MACHINE AND MAKE SURE THAT IT IS OPERATING PROPERLY. THAT ALL NAME PLATE AND SAFETY AND CONTROL DECALS ARE IN PLACE AND LEGIBLE, AND THAT THE MACHINE IS IN ACCORDANCE WITH THE MANUFACTURER'S MAINTENANCE REQUIREMENTS CONTAINED IN THE OPERATION AND MAINTENANCE MANUAL AND THE DAILY SAFETY CHECKLIST.

OPERATE MACHINE WITH EXTREME CAUTION. WATCH FOR OBSTRUCTIONS WHICH MAY STRIKE PLATFORM, PERSONNEL, CONTROLS, OR MACHINE. OPERATE CONTROLS SLOWLY FOR SMOOTH PLATFORM MOTION.

FOR DRIVING WITH PLATFORM LOWERED:	OTHER HAZARDS
<ul style="list-style-type: none"> <li>DO NOT EXCEED MAXIMUM PLATFORM OR EXTENSION LOAD LIMIT CAPACITY. LOAD TO BE UNIFORMLY DISTRIBUTED. PLACE LOAD NEAR CENTER OF PLATFORM WHEN POSSIBLE.</li> <li>DO NOT DRIVE ON SIDE SLOPE IF PLATFORM IS OVER 5% OFF LEVEL.</li> <li>DO NOT DRIVE UP OR DOWN A GRADE OF OVER 40%.</li> </ul>	<ol style="list-style-type: none"> <li>DO NOT EXCEED PLATFORM LOAD CAPACITY.</li> <li>DO NOT EXCEED MAXIMUM SIDE FORCE AND MAXIMUM NUMBER OF OCCUPANTS.</li> <li>DO NOT USE WITHOUT GUARD RAILS IN PLACE, AND ENTRY GATE PROPERLY SECURED.</li> <li>DO NOT USE IF WORK PLATFORM IS NOT WORKING PROPERLY OR IF ANY PART IS DAMAGED OR WORK.</li> <li>DO NOT USE NEAR MOVING VEHICLES OR CRANES.</li> <li>DO NOT STAND OR SIT ON GUARDRAILS. ALL PERSONNEL SHALL ALWAYS MAINTAIN FIRM FOOTING ON PLATFORM FLOOR.</li> <li>DO NOT USE WHILE UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.</li> <li>DO NOT OVERRIDE SAFETY DEVICES.</li> <li>DO NOT LEAVE MACHINE UNATTENDED WITH KEY IN THE SWITCH.</li> <li>DO NOT RAISE PLATFORM WHILE MACHINE IS ON A TRUCK, FORKlift, OR OTHER DEVICE OR VEHICLE.</li> <li>DO NOT USE LADDER, SCAFFOLDING, OR OTHER DEVICES TO INCREASE SIZE OR WORKING HEIGHT OF PLATFORM.</li> <li>DO NOT ENTER OR EXIT PLATFORM WHILE IN MOTION.</li> <li>DO NOT RECHARGE BATTERIES NEAR SPARKS OR OPEN FLAME. BATTERIES EMIT HIGHLY EXPLOSIVE HYDROGEN GAS.</li> <li>DO NOT PERFORM SERVICE ON THE MACHINE WITHOUT PROPERLY SUPPORTING ELEVATING ASSEMBLY.</li> <li>DO NOT ATTACH OVERHANGING LOADS OR INCREASE PLATFORM SIZE.</li> </ol>

FOR DRIVING WITH PLATFORM ELEVATED:

- DRIVE ONLY ON A SMOOTH, FIRM, AND PLANAR SURFACE FREE OF OBSTRUCTIONS.
- DO NOT EXCEED MAXIMUM PLATFORM OR EXTENSION LOAD CAPACITY.
- LOAD MUST BE UNIFORMLY DISTRIBUTED.
- IF TILT WARNING LIGHT ILLUMINATES OR TILT ALARM SOUNDS LOWER PLATFORM AND RE-LEVEL.
- USE EXTREME CAUTION.

IMPROPER OPERATION OF THIS MACHINE COULD CAUSE DEATH OR SERIOUS INJURY.

**DANGER**

**YOU MUST NOT OPERATE THIS MACHINE:**  
 UNLESS YOU HAVE BEEN AUTHORIZED TO USE AND TRAINED IN THE SAFE OPERATION OF THIS MACHINE.  
 TRAINING INCLUDES COMPLETE KNOWLEDGE OF THE SAFETY AND OPERATION INSTRUCTIONS CONTAINED IN THE MANUFACTURER'S MANUAL, AND MANUAL OF RESPONSIBILITIES, YOUR EMPLOYER'S WORK RULES AND APPLICABLE GOVERNMENTAL REGULATIONS.  
 AN UNAUTHORIZED AND UNTRAINED OPERATOR SUBJECTS THEMSELVES AND OTHERS TO DEATH OR SERIOUS INJURY.

**TIP-OVER HAZARDS**

- DO NOT DRIVE NEAR DROP-OFFS, HOLES, OPEN ELEVATOR SHAFTS, AND LOADING DOCKS.
- DO NOT ELEVATE PLATFORM ON UNEVEN OR SOFT SURFACES.
- DO NOT DRIVE ONTO UNEVEN OR SOFT SURFACES WHEN ELEVATED.
- DO NOT RAISE PLATFORM IN WINDY OR GUSTY CONDITIONS.

**ELECTROCUTION HAZARD**  
 THIS MACHINE IS NOT INSULATED.  
 MAINTAIN SAFE CLEARANCE FROM ELECTRICAL LINES AND APPARATUS. YOU MUST ALLOW FOR MACHINE SWAY, ROCK OR SAG AND ELECTRICAL LINES SWAYING.  
 THIS MACHINE DOES NOT PROVIDE PROTECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR.  
 YOU MUST MAINTAIN A CLEARANCE OF AT LEAST TEN (10) FEET BETWEEN ANY PART OF THE MACHINE OR ITS LOAD AND ANY ELECTRICAL LINE OR APPARATUS CARRYING UP TO 50,000 VOLTS. ONE FOOT OF ADDITIONAL CLEARANCE IS REQUIRED FOR EVERY ADDITIONAL 30,000 VOLTS OR LESS.

DEATH OR SERIOUS INJURY WILL RESULT FROM CONTACT OR INADEQUATE CLEARANCE.

DEATH OR SERIOUS INJURY WILL RESULT FROM IMPROPER USE OF THIS EQUIPMENT.

**WARNING**

USE OR OPERATION OF AN UNSPECTED WORK PLATFORM COULD CAUSE DEATH, PERSONAL INJURY

NEW	DO NOT OPERATE THIS WORK PLATFORM IF AN INSPECTION HAS NOT BEEN PERFORMED WITHIN 13 MONTHS OF THE LAST RECORDED INSPECTION DATE.	6TH YEAR
1ST YEAR	STAMP MONTH/DAY/YEAR NEXT TO APPROPRIATE YEAR AFTER EACH INSPECTION.	7TH YEAR
2ND YEAR		8TH YEAR
3RD YEAR	NOTICE CHANGE OF OWNERSHIP OF THIS WORK PLATFORM MUST BE REPORTED TO MANUFACTURER: MEC Aerial Platform Sales Corp. 1775 Park Street, Suite 77 Salina, California 95772 Phone: (800) 263-9626	9TH YEAR
4TH YEAR		10TH YEAR
5TH YEAR		

**WARNING**

- LANYARD ANCHORAGE POINTS ARE RECOMMENDED FOR WORK POSITIONING RESTRAINTS ONLY.

USE OF FALL ARREST SYSTEMS ATTACHED TO ANCHORAGE POINTS ON MOBILE EQUIPMENT MAY CAUSE MACHINE TO TIP, RESULTING IN SERIOUS INJURY OR DEATH.

**CERTIFIED LANYARD ANCHORAGE POINT**

**2684**

**WARNING**

MAXIMUM PLATFORM CAPACITY EVENLY DISTRIBUTED

5 PERSONS 770 kg

2 PERSONS 320 kg

MAXIMUM WIND SPEED 12.5 M/S 45 KMH

MAXIMUM SIDE LOAD 400 N

**3084**

**WARNING**

MAXIMUM PLATFORM CAPACITY EVENLY DISTRIBUTED

680 kg

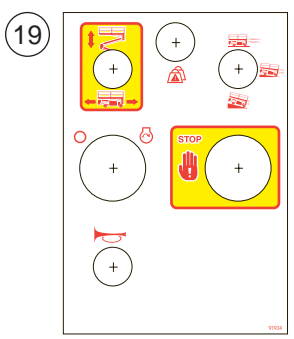
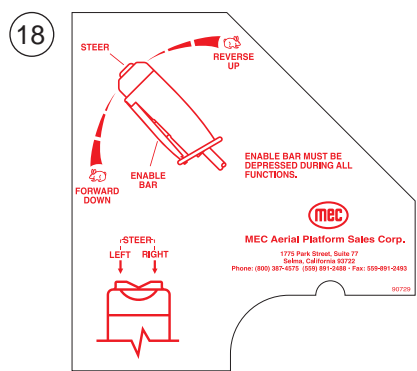
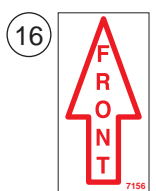
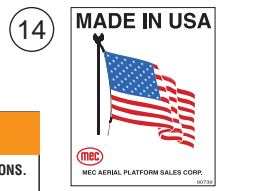
5-PERSONS

MAXIMUM WIND SPEED 12.5 M/S 45 KMH

MAXIMUM SIDE LOAD 400 N

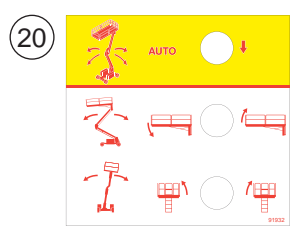
**WARNING**

DISTANCE FROM GROUND TO LADDER WILL VARY WITH GROUND VARIATIONS. CHECK DISTANCE BEFORE LEAVING PLATFORM.



**LOCATE CONTROL BOX HERE**

FOR NORMAL OPERATION OF THIS UNIT



MEC ILLUSTRATION No. ART\_3398

Sigma Level

CE Speed Level™ ES Models: Sheet 1 of 4

Decals



## Decals, ES Models, CE Specification

ITEM	PART NO.	QTY	DESCRIPTION
1	90719	1	Decal, MEC Oval
2	91987	2	<b>3084ES</b> -- Decal, MEC 3084ES
	92232	2	<b>2684ES</b> -- Decal, MEC 3084ES
3	--	--	--
4	--	--	--
5	8911	1	Decal, Manuals Inside
6	91869	1	Decal, Warning, Sheet Loading
7	91846	1	Decal, Warning Panel
8	91845	1	Decal, Danger, Electric - Tipover - Wind Rating
9	90718	1	Warning, Inspection Report
10	8606	1	Warning, Lanyard
11	8605	5	Decal, Anchorage Point
12	91944	2	<b>3084</b> - Decal, Capacity, 1500 LB
	92121	2	<b>2684</b> - Decal, Capacity, 1700 LB
13	91849		Decal, Ladder Clearance
14	90739	1	Decal, Made in USA
15	91850	1	Decal, Crush Hazard
16	7156	1	Decal, Front
17	7155	1	Decal, Locate Control Box Here
18	90729	1	Decal, Upper Control Box, Side
19	91934	1	Decal, Upper Controls
20	91932	1	Decal, Level Controls
21	--	--	--

... continued

• as req: as required

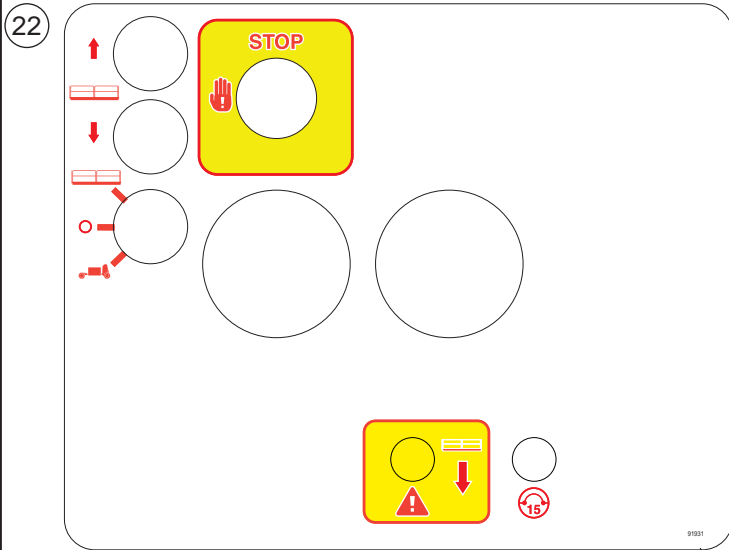
• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



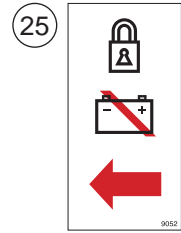
# ES MODELS - CE



## 23 Quad-Trax™ 4wd

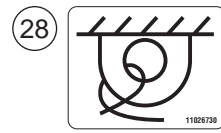
24 2684  
PLATFORM CAPACITY  
1700 LBS (770kg)  
92122

3084  
PLATFORM CAPACITY  
1500 LBS (680kg)  
91848



26 **WARNING**  
BATTERIES PRODUCE EXPLOSIVE GAS. CHARGE BATTERIES IN WELL VENTILATED AREA. DO NOT EXPOSE TO SPARKS OR FLAMES.  
8779

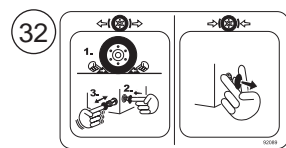
27 **WARNING**  
• EACH REPLACEMENT BATTERY MUST WEIGH A MINIMUM OF 111 POUNDS / 50.3 kg  
• FAILURE TO MEET MINIMUM WEIGHT REQUIREMENT MAY CAUSE MACHINE INSTABILITY.  
91774



29 **WARNING**  
DO NOT POWERWASH OR SPRAY ELECTRONIC COMPONENTS OR CONNECTORS. MOISTURE MAY CAUSE DAMAGE AND/OR ERRATIC OPERATION.  
90732

30 **HYDRAULIC OIL**

31 100-240 VAC  
50/60 Hz  
90919



33 **INFLATE TO TIRE MANUFACTURER'S MAX. SPECIFICATIONS OR SEE SERVICE MANUAL**  
802

34 **BATTERY CHARGER INDICATOR**

	YELLOW	80%	100%	FAULT
No AC power to charger	OFF	OFF	OFF	OFF
Normal operation, charger is charging	ON	OFF	OFF	OFF
Normal, battery is over 80% charged	ON	ON	OFF	OFF
Normal, battery is 100% charged	OFF	OFF	ON	OFF

Please see service manual for additional information.  
91956

36 **WARNING**  
• REPLACE TIRES WITH MANUFACTURER'S EQUIPMENT ONLY.  
• FAILURE TO USE MANUFACTURER'S TIRES MAY CAUSE MACHINE INSTABILITY.  
• REFER TO MAINTENANCE MANUAL FOR REPLACEMENT PART NUMBER.  
8519

38 **MEC AERIAL PLATFORM SALES CORP.**

MEC DATE	MODEL NUMBER	SERIAL NUMBER	MODEL YEAR
XXXX	XXXXXX	XXXXXXXXXX	20XX

MAX. PLATFORM CAPACITY INCLUDING PERSONS	ELECTRICAL VOLTAGE
XXX kg / X PERSONS + XXX kg EQUIPMENT	XX VOLTS
XXX kg / X PERSONS + XXX kg EQUIPMENT	MAX. MINIMUM FORCE
MAX. DRIVE HEIGHT	MAX. LBS
XX FT	XXXX
MAX. PLATFORM HEIGHT	MAX. WIND SPEED
XX FT	XX MPH
MAX. GROUND PRESSURE PER WHEEL	MAX. LOAD PER WHEEL
XX PSI	XXXX LBS
MAX. HYDRAULIC SYSTEM PRESSURE	MAX. WIND SPEED
XXXX PSI	XX MPH

THIS MACHINE HAS BEEN CONSTRUCTED IN ACCORDANCE WITH SECTION 4 OF AS/NZS 2006. COVERED BY US PAT. # 6,145,816 & CANADIAN PAT. # 2,114,370.

39 2684ES  
 **MAX**  
3065 lbs  
1390 kg  
92229

40 **GREASE PORT**  
(Slide to open)  
91870

41 **DANGER**  
THIS MACHINE IS NOT INSULATED!!! DEATH OR SERIOUS INJURY will result from contact with or inadequate clearance from any electrically charged conductor.  
**MINIMUM CLEARANCES FROM POWER LINES**  
CLEARANCES FOR OPERATING ELEVATING WORK PLATFORMS NEAR POWER LINES WHILE IN OPERATING MODE

OVERHEAD POWER LINES ON POLES	OVERHEAD POWER LINES ON TOWERS
<b>NO GO ZONE</b>	<b>NO GO ZONE</b>
FOR THE PLATFORM TO CLEAR THE PLATFORMS	FOR THE PLATFORM TO CLEAR THE PLATFORMS
MINIMUM CLEARANCE FROM POWER LINES	MINIMUM CLEARANCE FROM POWER LINES
14 FT	14 FT
10 FT	10 FT
6 FT	6 FT
4 FT	4 FT
2 FT	2 FT

3084ES  
 **MAX**  
3175 lbs  
1440 kg  
91846

## Decals, ES Models, CE Specification (continued)

ITEM	PART NO.	QTY	DESCRIPTION
22	91931	1	Decal, Lower Controls
23	91266	2	Decal, Quad Trax 4wd
24	91848	1	<b>3084</b> - Decal, Platform Capacity, Small
	92122	1	<b>2684</b> - Decal, Platform Capacity, Small
25	9052	1	Decal, Battery Disconnect And Lock
26	8779	1	Warning, Battery, Explosive Gas
27	91774	1	Warning, Battery Replacement
28	11026730	1	Tie Down Point
29	90732	1	Decal, Warning, Pressure Wash
30	6873	1	Decal, Hydraulic Oil
31	90919	1	Decal, Battery Charger
32	92089	1	Decal, Brake Release
33	8502	4	Decal, Tire Inflation
34	91956	1	Decal, Battery Charge Indicator
35	8867	1	Tag, Warning
36	8519	4	Decal, Warning, Tire Replacement
37	90751	1	Decal, Power To Platform
38	91775	1	Serial Plate
39	91946	4	<b>3084ES</b> - Decal, Wheel Load
	92229	4	<b>2684ES</b> - Decal, Wheel Load
40	91870	1	Decal, Grease Port
41	91325	1	Decal, Danger, Electrocutation Hazard (AUS Only)

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# ES MODELS - CE

INSIDE CASE

9

5

7

8

OPTION

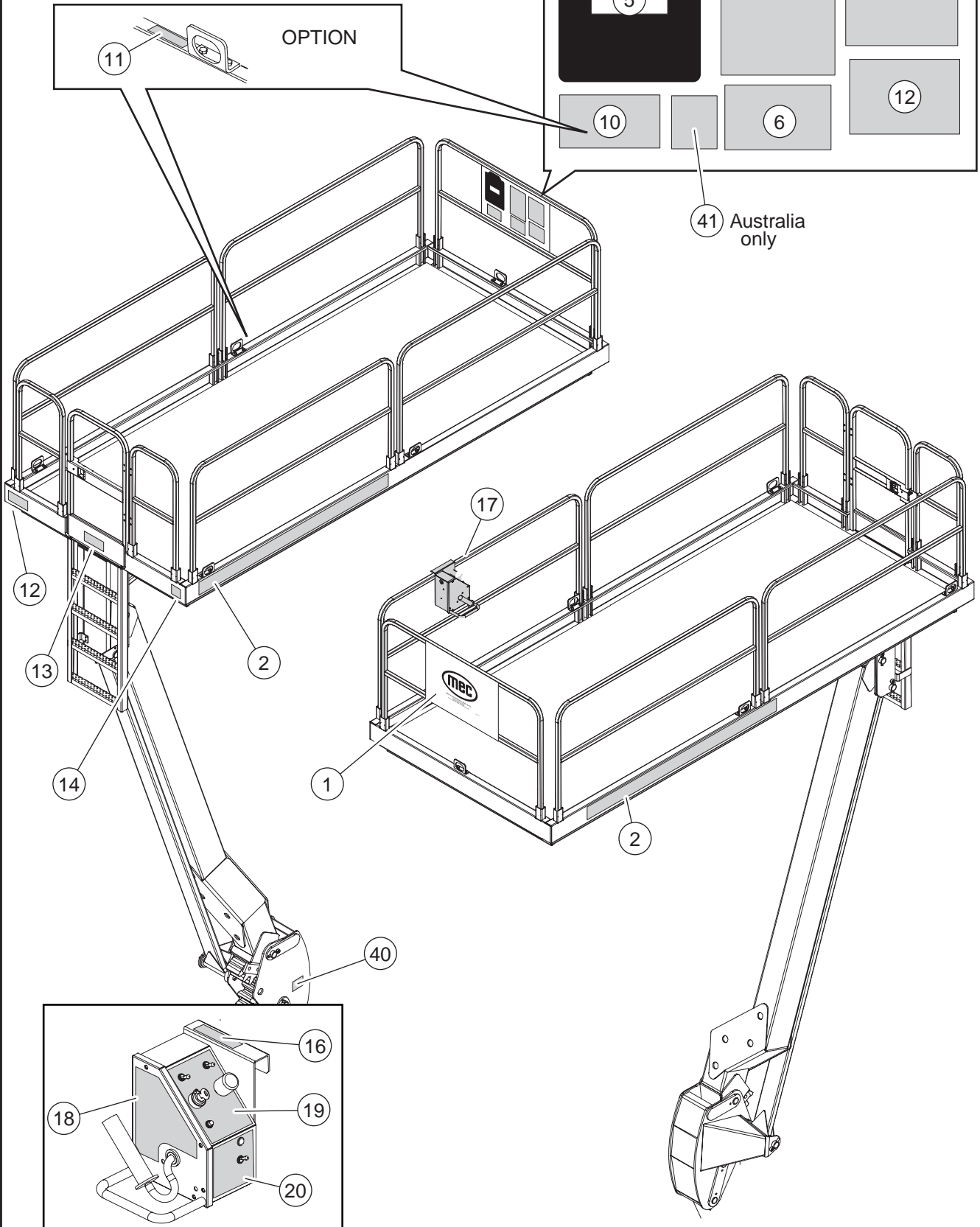
11

10

6

12

41 Australia only



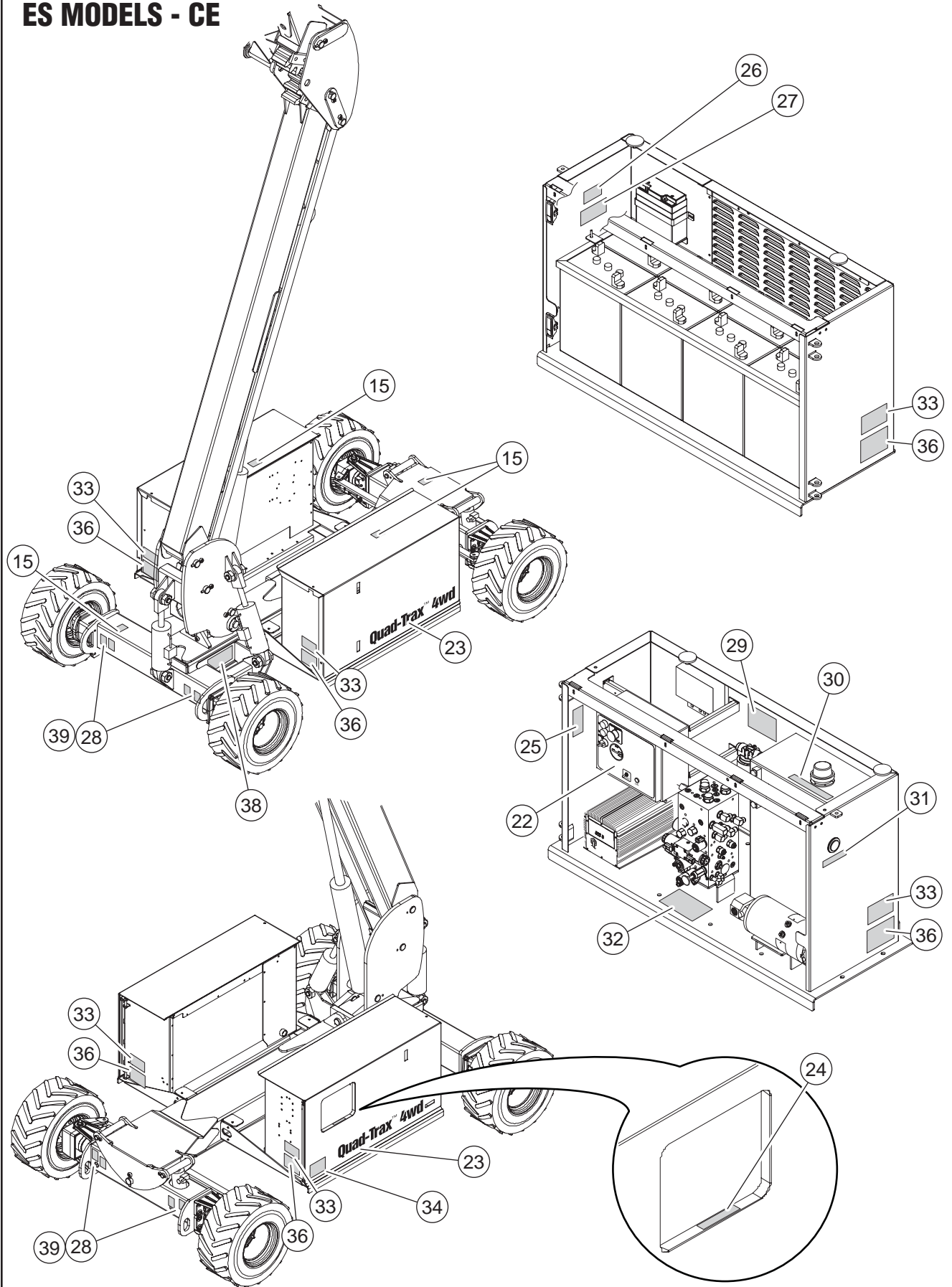
**mec**  
ILLUSTRATION No.  
ART\_3400

Sigma Level

CE Speed Level™ ES Models: Sheet 3 of 4

Decals

# ES MODELS - CE



**MBC**  
ILLUSTRATION No.  
ART\_3401

Sigma Level

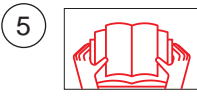
CE Speed Level™ ES Models: Sheet 4 of 4

Decals



3084RT **mecc 3084RT** SPEED LEVEL™

2684RT **mecc 2684RT** SPEED LEVEL™



## WARNING

INSPECT MACHINE AND MAKE SURE THAT IT IS OPERATING PROPERLY. THAT ALL NAME PLATE AND SAFETY AND CONTROL DECALS ARE IN PLACE AND LEGIBLE, AND THAT THE MACHINE IS IN ACCORDANCE WITH THE MANUFACTURER'S MAINTENANCE REQUIREMENTS CONTAINED IN THE OPERATION AND MAINTENANCE MANUAL AND THE DAILY SAFETY CHECKLIST.

OPERATE MACHINE WITH EXTREME CAUTION. WATCH FOR OBSTRUCTIONS WHICH MAY STRIKE PLATFORM, PERSONNEL, CONTROLS, OR MACHINE. OPERATE CONTROLS SLOWLY FOR SMOOTH PLATFORM MOTION.

FOR DRIVING WITH PLATFORM LOWERED:	OTHER HAZARDS
<ul style="list-style-type: none"> <li>DO NOT EXCEED MAXIMUM PLATFORM OR EXTENSION LOAD LIMIT CAPACITY. LOAD TO BE UNIFORMLY DISTRIBUTED. PLACE LOAD NEAR CENTER OF PLATFORM WHEN POSSIBLE.</li> <li>DO NOT DRIVE ON SIDE SLOPE IF PLATFORM IS OVER 5% OFF LEVEL.</li> <li>DO NOT DRIVE UP OR DOWN A GRADE OF OVER 40%.</li> </ul>	<ol style="list-style-type: none"> <li>DO NOT EXCEED PLATFORM LOAD CAPACITY.</li> <li>DO NOT EXCEED MAXIMUM SIDE FORCE AND MAXIMUM NUMBER OF OCCUPANTS.</li> <li>DO NOT USE WITHOUT GUARD RAILS IN PLACE, AND ENTRY GATE PROPERLY SECURED.</li> <li>DO NOT USE IF WORK PLATFORM IS NOT WORKING PROPERLY OR IF ANY PART IS DAMAGED OR WORN.</li> <li>DO NOT USE NEAR MOVING VEHICLES OR CRANES.</li> <li>DO NOT STAND OR SIT ON GUARDRAILS. ALL PERSONNEL SHALL ALWAYS MAINTAIN FIRM FOOTING ON PLATFORM FLOOR.</li> <li>DO NOT USE WHILE UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.</li> <li>DO NOT OVERRIDE SAFETY DEVICES.</li> <li>DO NOT LEAVE MACHINE UNATTENDED WITH KEY IN THE SWITCH.</li> <li>DO NOT RAISE PLATFORM WHILE MACHINE IS ON A TRUCK, FORKlift, OR OTHER DEVICE OR VEHICLE.</li> <li>DO NOT USE LADDER, SCAFFOLDING, OR OTHER DEVICES TO INCREASE SIZE OR WORKING HEIGHT OF PLATFORM.</li> <li>DO NOT ENTER OR EXIT PLATFORM WHILE IN MOTION.</li> <li>DO NOT RECHARGE BATTERIES NEAR SPARKS OR OPEN FLAME. BATTERIES EMIT HIGHLY EXPLOSIVE HYDROGEN GAS.</li> <li>DO NOT PERFORM SERVICE ON THE MACHINE WITHOUT PROPERLY SUPPORTING ELEVATING ASSEMBLY.</li> <li>DO NOT ATTACH OVERHANGING LOADS OR INCREASE PLATFORM SIZE.</li> </ol>

**FOR DRIVING WITH PLATFORM ELEVATED:**

- DRIVE ONLY ON A SMOOTH, FIRM, AND PLANAR SURFACE FREE OF OBSTRUCTIONS.
- DO NOT EXCEED MAXIMUM PLATFORM OR EXTENSION LOAD CAPACITY.
- LOAD MUST BE UNIFORMLY DISTRIBUTED.
- IF TILT WARNING LIGHT ILLUMINATES OR TILT ALARM SOUNDS LOWER PLATFORM AND RE-LEVEL.
- USE EXTREME CAUTION.

**IMPROPER OPERATION OF THIS MACHINE COULD CAUSE DEATH OR SERIOUS INJURY.**

## DANGER

YOU MUST NOT OPERATE THIS MACHINE:	TIP-OVER HAZARDS
<p>UNLESS YOU HAVE BEEN AUTHORIZED TO USE AND TRAINED IN THE SAFE OPERATION OF THIS MACHINE.</p> <p>TRAINING INCLUDES COMPLETE KNOWLEDGE OF THE SAFETY AND OPERATION INSTRUCTIONS CONTAINED IN THE MANUFACTURER'S MANUAL, AND MANUAL OF RESPONSIBILITIES, YOUR EMPLOYER'S WORK RULES AND APPLICABLE GOVERNMENTAL REGULATIONS.</p> <p>AN UNAUTHORIZED AND UNTRAINED OPERATOR SUBJECTS THEMSELVES AND OTHERS TO DEATH OR SERIOUS INJURY.</p>	<p>DO NOT DRIVE NEAR DROP-OFFS, HOLES, OPEN ELEVATOR SHAFTS, AND LOADING DOCKS</p> <p>DO NOT DRIVE ONTO UNEVEN OR SOFT SURFACES WHEN ELEVATED</p> <p>DO NOT RAISE PLATFORM IN WINDY OR GUSTY CONDITIONS</p>
<p><b>ELECTROCUTION HAZARD</b> THIS MACHINE IS NOT INSULATED</p> <p>MAINTAIN SAFE CLEARANCE FROM ELECTRICAL LINES AND APPARATUS. YOU MUST ALLOW FOR MACHINE SWAY, ROCK OR SAG AND ELECTRICAL LINES SWAYING.</p> <p>THIS MACHINE DOES NOT PROVIDE PROTECTION FROM CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED CONDUCTOR.</p> <p>YOU MUST MAINTAIN A CLEARANCE OF AT LEAST TEN (10) FEET BETWEEN ANY PART OF THE MACHINE OR ITS LOAD AND ANY ELECTRICAL LINE OR APPARATUS CARRYING UP TO 50,000 VOLTS. ONE FOOT OF ADDITIONAL CLEARANCE IS REQUIRED FOR EVERY ADDITIONAL 30,000 VOLTS OR LESS.</p>	
<p><b>DEATH OR SERIOUS INJURY WILL RESULT FROM CONTACT OR INADEQUATE CLEARANCE</b></p>	<p><b>DEATH OR SERIOUS INJURY WILL RESULT FROM IMPROPER USE OF THIS EQUIPMENT</b></p>

## WARNING

- SHEET LOADING GATE MUST BE IN LOWERED LOCKED POSITION BEFORE OPERATING FROM PLATFORM.**
  - PLATFORM ENTRANCE MUST BE PROPERLY CLOSED AND ALL GUARDRAILS PROPERLY IN PLACE AND SECURED BEFORE OPERATING FROM PLATFORM.**
- FAILURE TO FOLLOW INSTRUCTIONS COULD CAUSE DEATH OR PERSONAL INJURY.

## WARNING

USE OR OPERATION OF AN UNSUPERVISED WORK PLATFORM COULD CAUSE DEATH, PERSONAL INJURY

NEW	<p>DO NOT OPERATE THIS WORK PLATFORM IF AN INSPECTION HAS NOT BEEN PERFORMED WITHIN 13 MONTHS OF THE LAST RECORDED INSPECTION DATE.</p> <p>STAMP MONTH/DAY/YEAR NEXT TO APPROPRIATE YEAR AFTER EACH INSPECTION.</p> <p>NOTICE</p> <p>CHANGE OF OWNERSHIP OF THIS WORK PLATFORM MUST BE REPORTED TO MANUFACTURER:</p> <p>MEC Aerial Platform Sales Corp. 4700 E. Jensen Avenue Fresno, California 93725 Phone: (559) 263-9626</p>	6TH YEAR
1ST YEAR		7TH YEAR
2ND YEAR		8TH YEAR
3RD YEAR		9TH YEAR
4TH YEAR		10TH YEAR

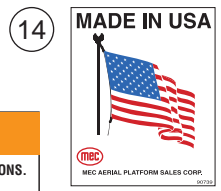
5TH YEAR

## WARNING

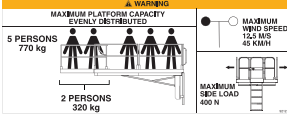
LANYARD ANCHORAGE POINTS ARE RECOMMENDED FOR WORK POSITIONING RESTRAINTS ONLY.

USE OF FALL ARREST SYSTEMS ATTACHED TO ANCHORAGE POINTS ON MOBILE EQUIPMENT MAY CAUSE MACHINE TO TIP, RESULTING IN SERIOUS INJURY OR DEATH.

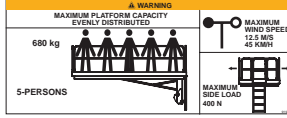
## CERTIFIED LANYARD ANCHORAGE POINT



## 2684

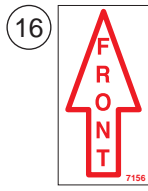
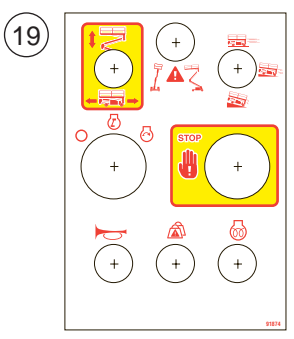
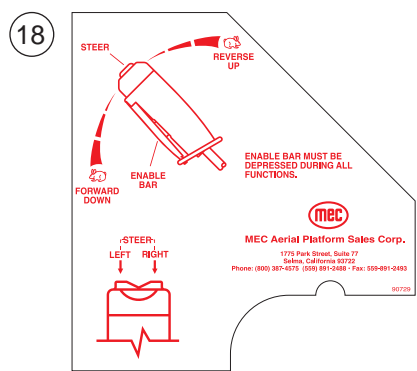


## 3084

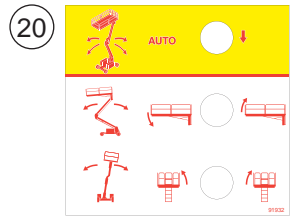


## WARNING

DISTANCE FROM GROUND TO LADDER WILL VARY WITH GROUND VARIATIONS. CHECK DISTANCE BEFORE LEAVING PLATFORM.



LOCATE CONTROL BOX HERE FOR NORMAL OPERATION OF THIS UNIT



MEC ILLUSTRATION No. ART\_3402

Sigma Level

CE Speed Level™ RT Models: Sheet 1 of 4

Decals

## Decals, RT Models, CE Specification

ITEM	PART NO.	QTY	DESCRIPTION
1	90719	1	Decal, MEC Oval
2	91990	2	<b>3084RT</b> -- Decal, SPEED LEVEL
	92231	2	<b>2684RT</b> -- Decal, SPEED LEVEL
3	--	--	--
4	--	--	--
5	8911	1	Decal, Manuals Inside
6	91869	1	Decal, Warning, Sheet Loading
7	91846	1	Decal, Warning Panel
8	91845	1	Decal, Danger, Electric - Tipover - Wind Rating
9	90718	1	Warning, Inspection Report
10	8606	1	Warning, Lanyard
11	8605	5	Decal, Anchorage Point
12	91944	2	<b>3084</b> - Decal, Capacity, 1500 LB
	92121	2	<b>2684</b> - Decal, Capacity, 1700 LB
13	91849	1	Decal, Ladder Clearance
14	90739	1	Decal, Made in USA
15	91850	4	Decal, Crush Hazard
16	7156	1	Decal, Front
17	7155	1	Decal, Locate Control Box Here
18	90729	1	Decal, Upper Control Box, Side
19	91874	1	Decal, Upper Controls
20	91932	1	Decal, Level Controls
21	--	--	--

... continued







## Decals, RT Models, CE Specification (continued)

ITEM	PART NO.	QTY	DESCRIPTION
22	91930	1	Decal, Lower Controls
23	91266	2	Decal, Quad Trax 4wd
24	91848	1	<b>3084</b> - Decal, Platform Capacity, Small
	92122	1	<b>2684</b> - Decal, Platform Capacity, Small
25	9052	1	Decal, Battery Disconnect And Lock
26	8779	1	Warning, Battery, Explosive Gas
27	--	--	--
28	11026730	1	Tie Down Point
29	90732	1	Decal, Warning, Pressure Wash
30	6873	1	Decal, Hydraulic Oil
31	--	--	--
32	92089	1	Decal, Brake Release
33	8502	4	Decal, Tire Inflation
34	--	--	--
35	--	--	--
36	8519	4	Decal, Warning, Tire Replacement
37	--	--	--
38	91775	1	Serial Plate
39	91945	4	<b>3084RT</b> - Decal, Wheel Load
	92227	4	<b>2684RT</b> - Decal, Wheel Load
40	91870	1	Decal, Grease Port
41	91325	1	Decal, Danger, Electrocution Hazard (AUS Only)
42	91388	1	Decal, Noise Level
43	9378	1	Decal, Diesel Only

• as req: as required

• INCL: Included with assembly

• NS: Not a Stock item

• REF: Reference only



# RT MODELS - CE

INSIDE CASE

9

5

7

8

OPTION

11

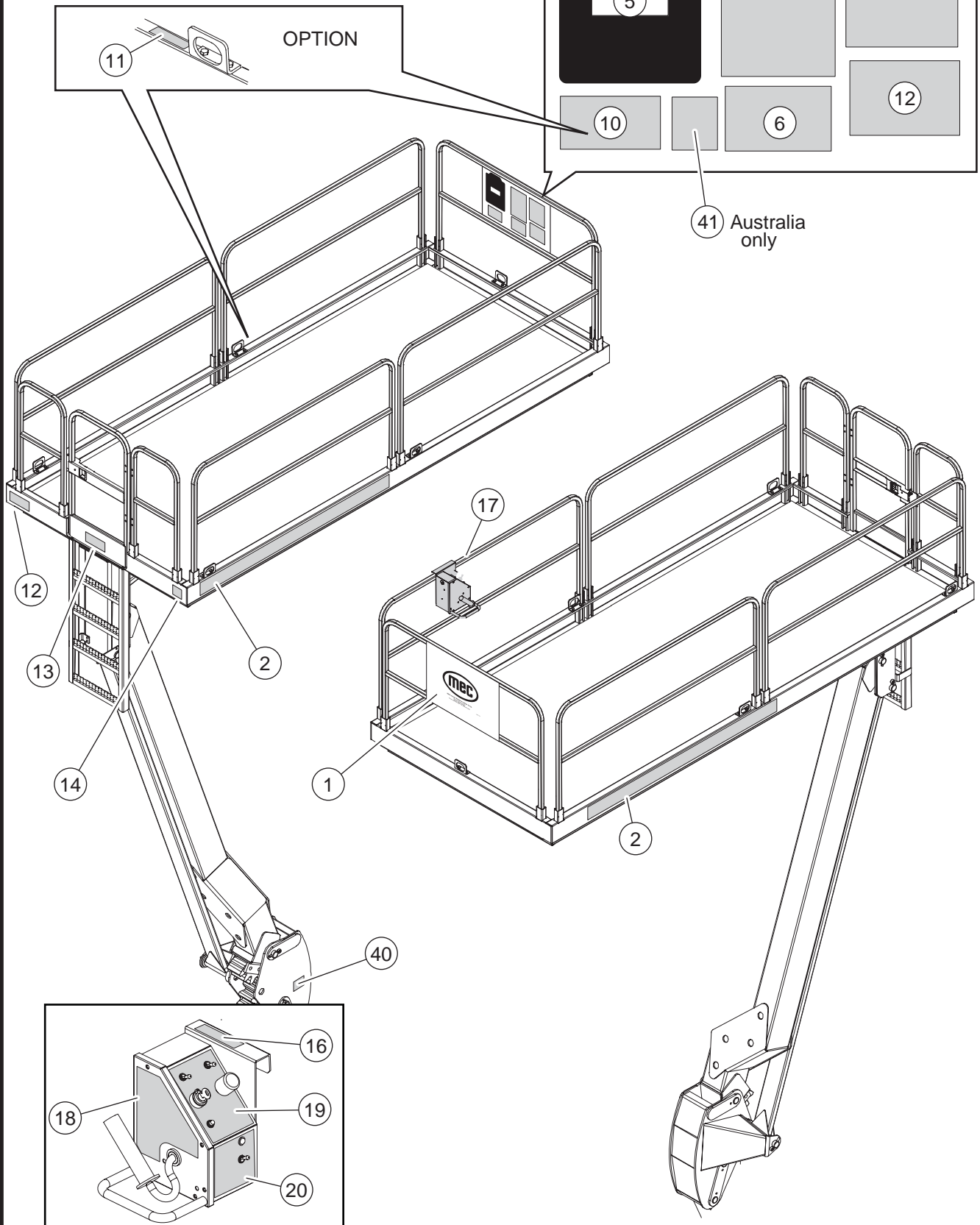
10

6

12

41

Australia only



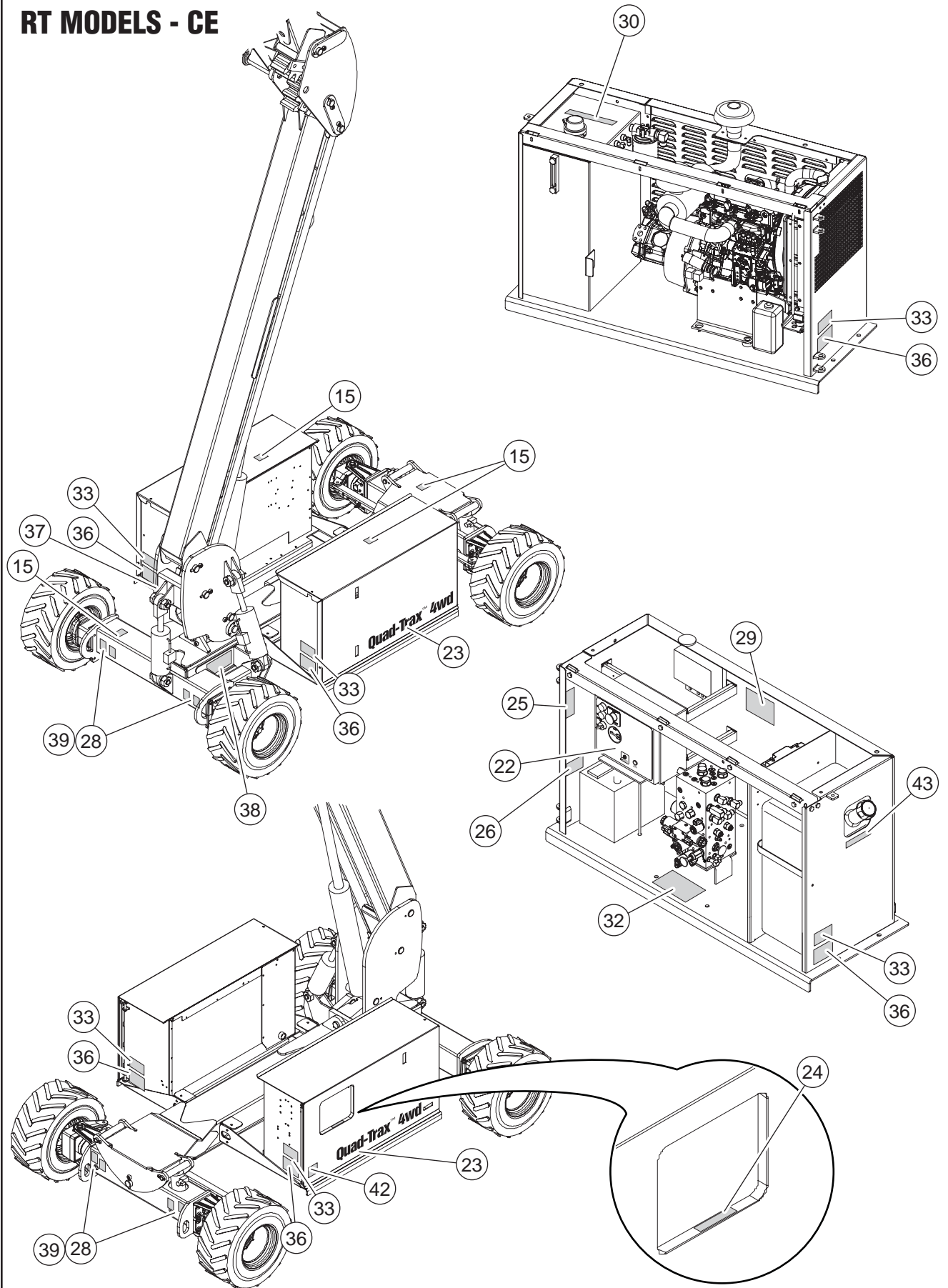
**mec**  
ILLUSTRATION No.  
ART\_3404

Sigma Level

CE Speed Level™ RT Models: Sheet 3 of 4

Decals

# RT MODELS - CE



**MBC**  
ILLUSTRATION No.  
ART\_3405

Sigma Level

CE Speed Level™ RT Models: Sheet 4 of 4

Decals

**NOTES:**

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**NOTES:**

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## 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.



**Aerial Platform Sales Corp.**

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