

Instruction Manual

Electric Value Lift Stacker

Part Number: 273203 & 273204



Note: Operator MUST read and understand these operating instructions before using this Lift.

Table of Contents

1	General Information	1
1.1	Description.....	1
1.2	Specifications.....	2
2	Section Identification.....	2
3	Safety Instructions.....	3
4	Inspection Before Use.....	3
5	Operation.....	3
5.1	Lifting/Lowering the Platform (Fork).....	6
5.1	How to Use Charger.....	6
6	Maintenance.....	4
7	Trouble Shooting.....	5
8	System Diagrams.....	5
9	Part Information (Model Before May 2010).....	6
9.1	General Assembly Part Diagram.....	6
9.2	General Assembly Part List.....	7
9.3	Battery Compartment Part Diagram.....	8
9.4	Battery Compartment Part List.....	9
10	Part Information (Model After May 2010).....	10
10.1	General Assembly Part Diagram.....	10
10.2	General Assembly Part List.....	11
10.3	Battery Compartment Part Diagram.....	12
10.4	Battery Compartment Part List.....	13

ATTENTION: TO INSURE SAFE AND EASY USE OF YOUR WESCO VALUE LIFT STACKER, READ THESE INSTRUCTIONS ENTIRELY BEFORE USING.



WARNING: The battery in this product contains lead. The State of California under Proposition 65 has determined that exposure to lead is known to cause cancer or birth defects or other reproductive harm. Please wash hands after use.

1. GENERAL INFORMATION

1.1 DESCRIPTION

Thank you for purchasing a Wesco Electric Value Lift Stacker. This unit features, a chrome plated handle and rails, adjustable forks and two 5" polyurethane swivel casters with brakes.

1.2 SPECIFICATIONS

Part Number	273203	273204
Model #	VLP-47	VLP-59
Capacity	880 lbs	880 lbs
Fork W x L	4.25" x 25.5"	4.25" x 25.5"
Fork Thickness	.237"	.237"
Lift Height	3.5" - 47"	3.5" - 59"
Lowered Height	3.5"	3.5"
Adjustable Fork Width	8.5" - 21.5"	8.5" - 21.5"
Swivel Casters	5" Locking Polyurethane	5" Locking Polyurethane
Load Wheels	3" Rigid Polyurethane	3" Rigid Polyurethane
Load Center	12.75"	12.75"
Weight	269 lbs	280 lbs

2. SECTION IDENTIFICATION

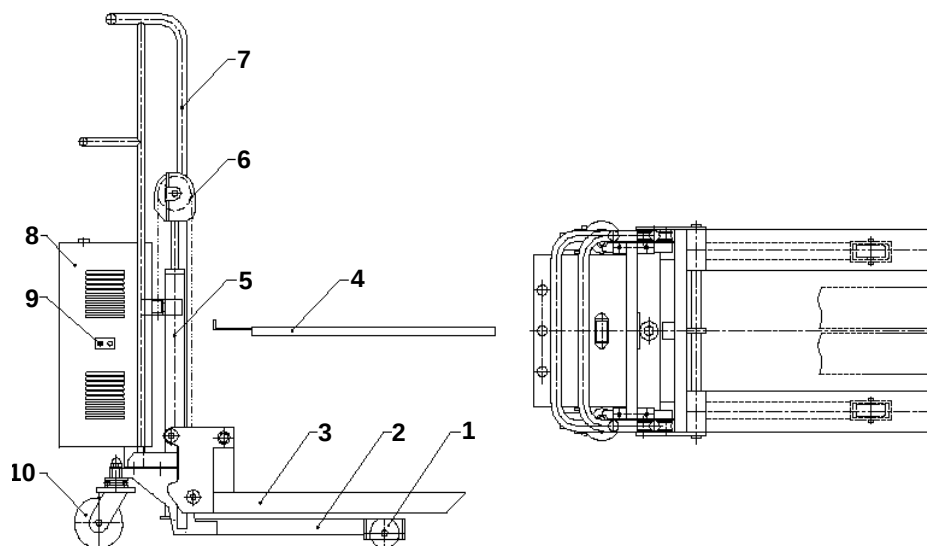


Figure 1

- | | | |
|----------------------|-------------------------|---------------------------|
| 1. Front Wheel | 2. Chassis | 3. Fork Assembly (Drawer) |
| 4. Optional Platform | 5. Pump Assembly | 6. Chain Wheel |
| 7. Handle Rack | 8. Electric Control Box | 9. Charger Socket |
| 10. Steering Wheel | | |

3. SAFETY INSTRUCTIONS

- 1) Use on a level paved surface.
- 2) Don't load over the maximum capacity and make sure load is balanced.
- 3) To cool the temperature of the power pack motor, stop use for a few minutes after continuous use with a load. Otherwise, it can cause damage to the power pack.
- 4) Recharge the battery when it runs low on power. Do not discharge the battery completely.
- 5) Don't touch the chain or any other moving parts on the unit.
- 6) Close the electric control box before use.

4. INSPECTION BEFORE USE

- 1) Ensure all parts are undamaged and in working condition. Do not use the stacker and contact the local supplier if any parts are missing or defective.
- 2) Check the electric control box.
- 3) Ensure oil level is optimal and no oil leakage is occurring in the hydraulic system.
- 4) Check battery power level. The battery has been charged before shipment, but due to extended delivery times, it can become low.
- 5) Check the performance of lifting and lowering the fork without a load.
- 6) Make sure there is no oil leakage a load is lifted or lowered.

5. OPERATION

5.1 Lift/Lowering the Platform (Fork)

- 1) Lock the parking brake.
- 2) Turn the switch to **ON**, there is power and the voltage meter shows over 10.5V.
- 3) Press the **LIFT** button, the fork will lift up. Release the button, the fork will stop at its present position, it will not descend.
- 4) Press the **LOWER** button, the fork will descend. Release the button, the fork will stop at its current position, it will not continue to descend.
- 5) To prolong the service life of the electric pump, it is necessary to release the button when the fork reaches the top position.
- 6) The electric pump is provided with a relief valve. When the load is over 120% of the capacity, the fork will not lift.
- 7) Do not leave the stacker lifting a load continuously in order to preserve the motor.
- 8) When moving the stacker, the clearance between the fork and ground should be more than 8 inches (200mm).
- 9) In order to maintain the stability of the stacker, it should be moved slowly while transporting a load.
- 10) To ensure safety, turn the switch to **OFF** and remove the switch key after operation.

5. OPERATION (CONTINUED)

5.2 How to Use Charger

- 1) After continuous use, the battery will be low in power. To recharge for use the coulometer must be green or the voltage meter must show at least 10.4V.
- 2) When the **red light** on the coulometer is showing or the voltage meter reads **under 10.4V**, the lifting speed will slow down. The battery **must be recharged**, If not, it will shorten the service life of electric pump and battery.
- 3) Before recharging the battery, please carefully read and fully understand the attached instruction manual of charger.
- 4) Before plugging the charger into an outlet, make sure local electric power matches the charger. Then connect the charger to socket in the electric control box, the battery will begin recharging automatically.

6. MAINTENANCE

- 1) Inspect the each section for loose bolts and nuts monthly.
- 2) Inspect the each section, wheel, hydraulic system, electric pump for distortion, worn, and abnormal noise monthly.
- 3) Inspect performance of lifting and lowering the fork and other device monthly.
- 4) Inspect the battery surface for clean and dry monthly. Dirty and wetness may cause leakage of electricity and descent of voltage.
- 5) Inspect the terminals, inserters, fuse electric component for loose, broken monthly.
- 6) Change the hydraulic oil after 20 working hours in the beginning. Then, change the oil every 300 working hours. If the stacker is not used frequently, please change the oil every 18 months.
- 7) Refer to following sheet when change or fill the oil.

Temperature	Oil
23°F~113°F(-5°C~+45°C)	L-HM68 Hydraulic oil (equivalent to ISO VG68)
5°F~23°F (-15°C~-5°C)	L-HM46 Hydraulic oil (equivalent to ISO VG46)

- 8) When changing the oil, put the piston at the lowest position, then open the electric control box, remove the bolt on the bottom the valve plate and the bolt connecting motor and valve plate, the pump section is disassembled.
- 9) Clean the valve plate and the oil tank, then fill oil to 80% of oil tank content. And inspect the connection to avoid oil leakage.
- 10) Replacing Battery Cover
 - a. Take the 2 screws off the small panel on the top and remove the control panel.
 - b. Take the 3 screws off on either side of the cover; you can then remove the cover.
 - c. Place the new cover on the frame and screw in the 6 screws.
 - d. Connect the control panel and screw in place.

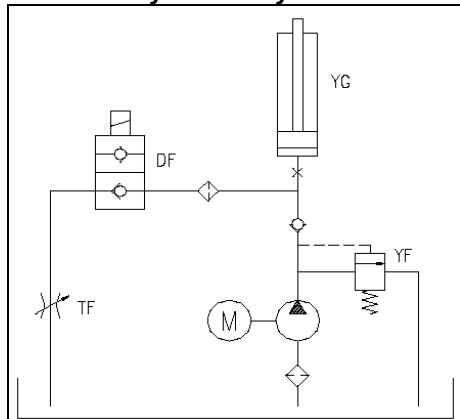
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7. TROUBLE SHOOTING

No.	Problem Description	Cause	Remedy
1	Turn the key switch to ON , coulometer doesn't indicate power level.	1. Switch is not working correctly. 2. Terminals and inserters are loose.	1. Check and change switch. 2. Check terminals and inserters.
2	Platform (Fork) does not lift up when pushing LIFT button	1. Switch is not working correctly. 2. Fuse is broken. 3. Terminals and inserters are loose. 4. Electric pump is needs oil.	1. Check and change switch. 2. Replace fuse. 3. Check terminals and inserters. 4. Fill oil to recommended position.
3	Lifting speed is too slow when pushing LIFT button.	1. Battery does not have enough power. 2. Relief valve is not in proper position.	1. Recharge the battery. 2. Adjust the relief valve.
4	Fork do not lift to top.	1. Electric pump is low on oil.	1. Fill oil to prescribed position.
5	Electric pump does not work.	1. Electric pump is broken. 2. Terminals and connector are loose. 3. Battery does not have enough power.	1. Check and change. 2. Check terminals and inserters. 3. Recharge the battery.
6	Fork does not lower	1. Switch is not working correctly.	1. Check and change switch.

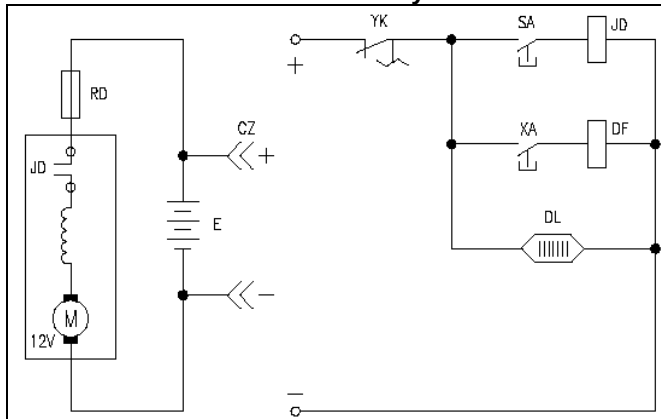
8. SYSTEM DIAGRAMS

Hydraulic System



YG	Hydraulic Cylinder
DF	Magnet Valve
TF	Speed Control Valve
YF	Discharge Valve
M	Electric Pump

Electrical Control System



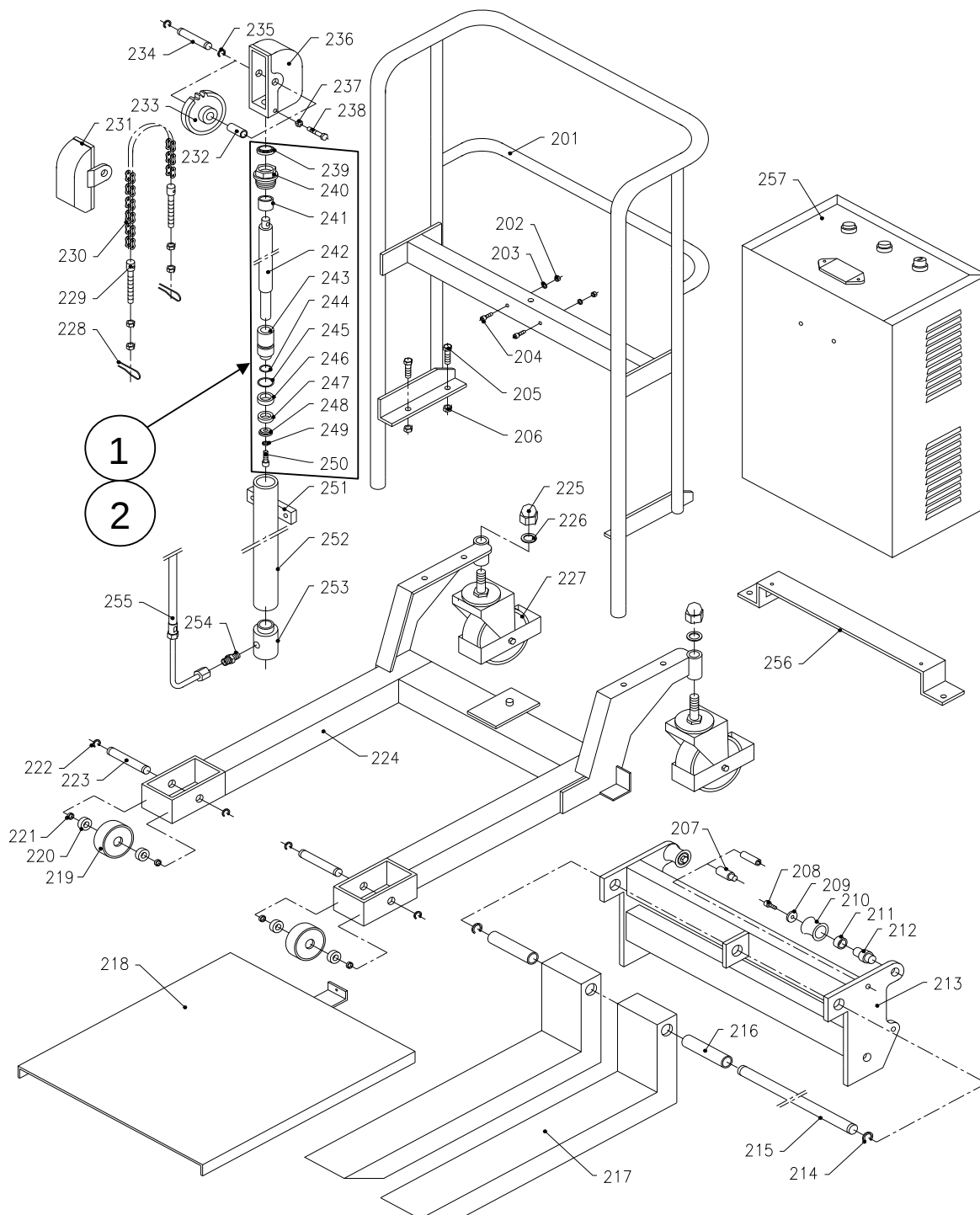
JD	Relay
RD	Fuse
M	DC Motor
E	Battery
CZ	Charger Socket

YK	Switch
SA	LIFT-Button
XA	LOWER-Button
DF	Magnet Valve
DL	Coulometer

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9. PART INFORMATION (MODEL BEFORE MAY 2010)

9.1 GENERAL ASSEMBLY PART DRAWING



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9. PART INFORMATION (MODEL BEFORE MAY 2010)

9.2 GENERAL ASSEMBLY PART LIST

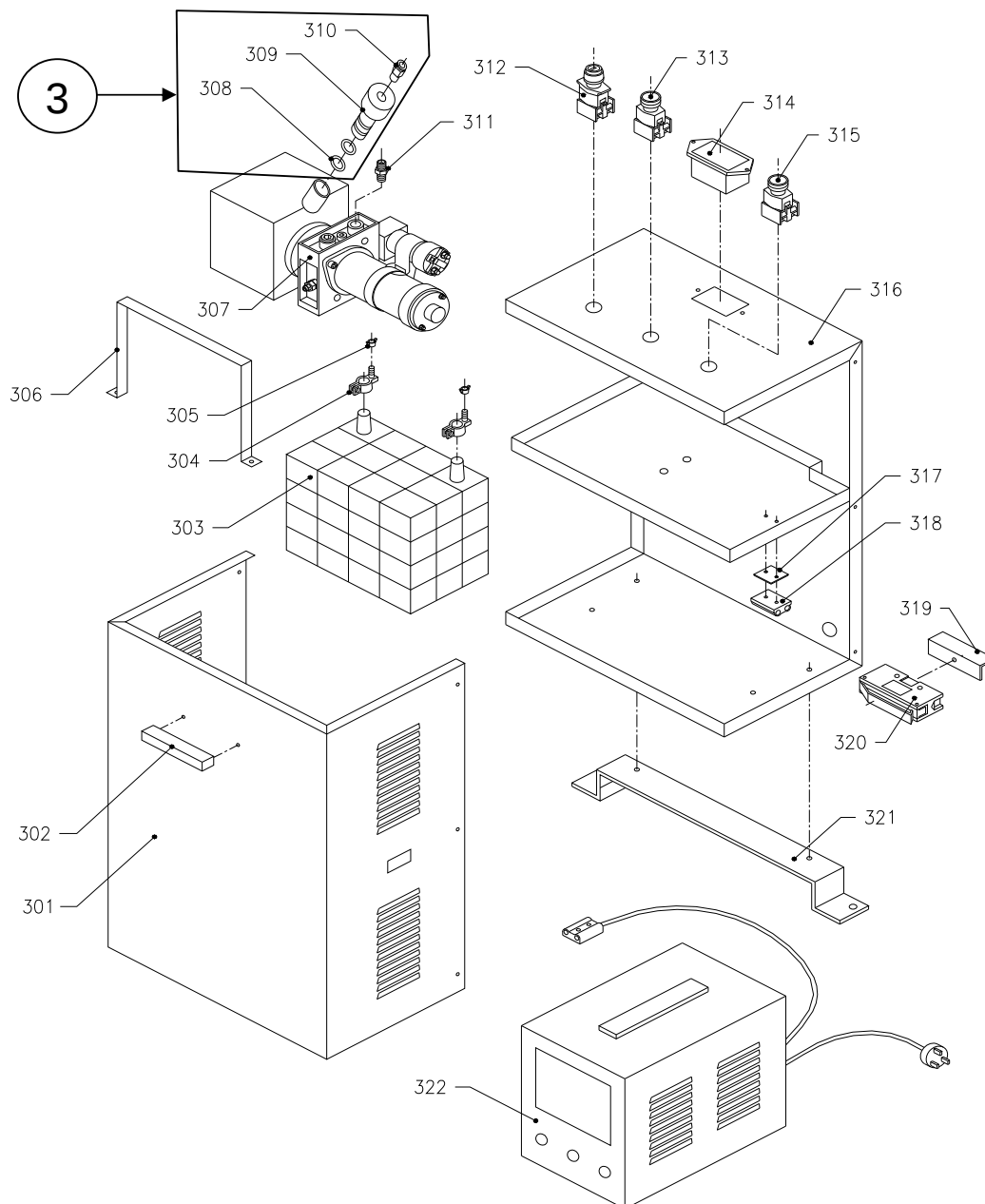
Item	P/N	Item Description	Qty
229	273369	Bolt for Chain	2
230	273326	Chain	1
231	273327	Chain Roller Cover	1
232	273328	Bearing	1
233	273329	Chain Roller	1
234	273330	Pin	1
235	273331	Retaining Ring	2
236	273332	Chain Roller Cover	1
237	273333	Nut	1
238	273334	Bolt	1
1	273335	Kit: Seal	1
239	Kit: Seal 273335	Dustproof Ring	1
240		Upper Cover	1
241		Locating Ring	1
243		Piston	1
244		O-Ring	1
245		O-Ring	1
246		Y Sealing Ring	1
257		Retaining Ring	1
248		Cover	1
249		Washer	1
250		Screw	1
251	273336	Location Plate	1
252		Not Offered	
253	273338	Base for Oil Cylinder	1
254	273339	Union	1
255	273340	Oil tube	1
2	273341	Cylinder: Hydraulic (Complete Ass'y)	1
	273370		

Item	P/N	Item Description	Qty
201			
202	273342	Nut	2
203	273343	Washer	2
204	273344	Screw	2
205	273345	Bolt	4
206	273346	Nut	4
207	273347	Retaining Ring	4
208	273348	Bolt	4
209	273349	Washer	4
210	273350	Roller	4
211		Bearing	
212	273352	Pin for Roller	4
213	273353	Shelf	1
214	273354	Retaining Ring	2
215	273355	Long Shaft	1
216	273356	Bushing	2
217	273357	Fork	1
218	273358	Platform	1
219	273359	Front Wheel	2
220	273360	Bearing	4
221	273361	Retaining Ring	4
222	273362	Retaining Ring	4
223	273363	Pin for Front Wheel	2
224	273364	Chassis	1
225	273365	Nut	2
226	273366	Lock Washer	2
227	273367	Steering Wheel	2
228	273368	Pin	2

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9. PART INFORMATION (MODEL BEFORE MAY 2010)

9.3 BATTERY COMPARTMENT PART DRAWING



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9. PART INFORMATION (MODEL BEFORE MAY 2010)

9.4 BATTERY COMPARTMENT PART LIST

Item	P/N	Item Description	Qty
301A	273371	Cover: Metal "Old" Style"	1
301B	273407	Cover: Plastic "New Style"	1
303	273372	Battery	1
304		Not Offered	
305		Not Offered	
306	273373	Battery Clamp	1
307	273374	Electric Pump	1
3	273375	Kit: Adapter, Air & Oil	1
308		O-Ring	1
309		Plug	1
310		Air Pip Adapter	1
311		Oil Pipe Adapter	1
312	273376	Switch	1
313	273377	Lift Button	1
314	273378	Coulometer (Battery Meter)	1
315		Not Offered	
316		Not Offered	
317		Not Offered	
318		Not Offered	
319		Not Offered	
320	273379	Fuse	1
321		Not Offered	
322	273380	Charger	1

Electric Value Lift Stackers

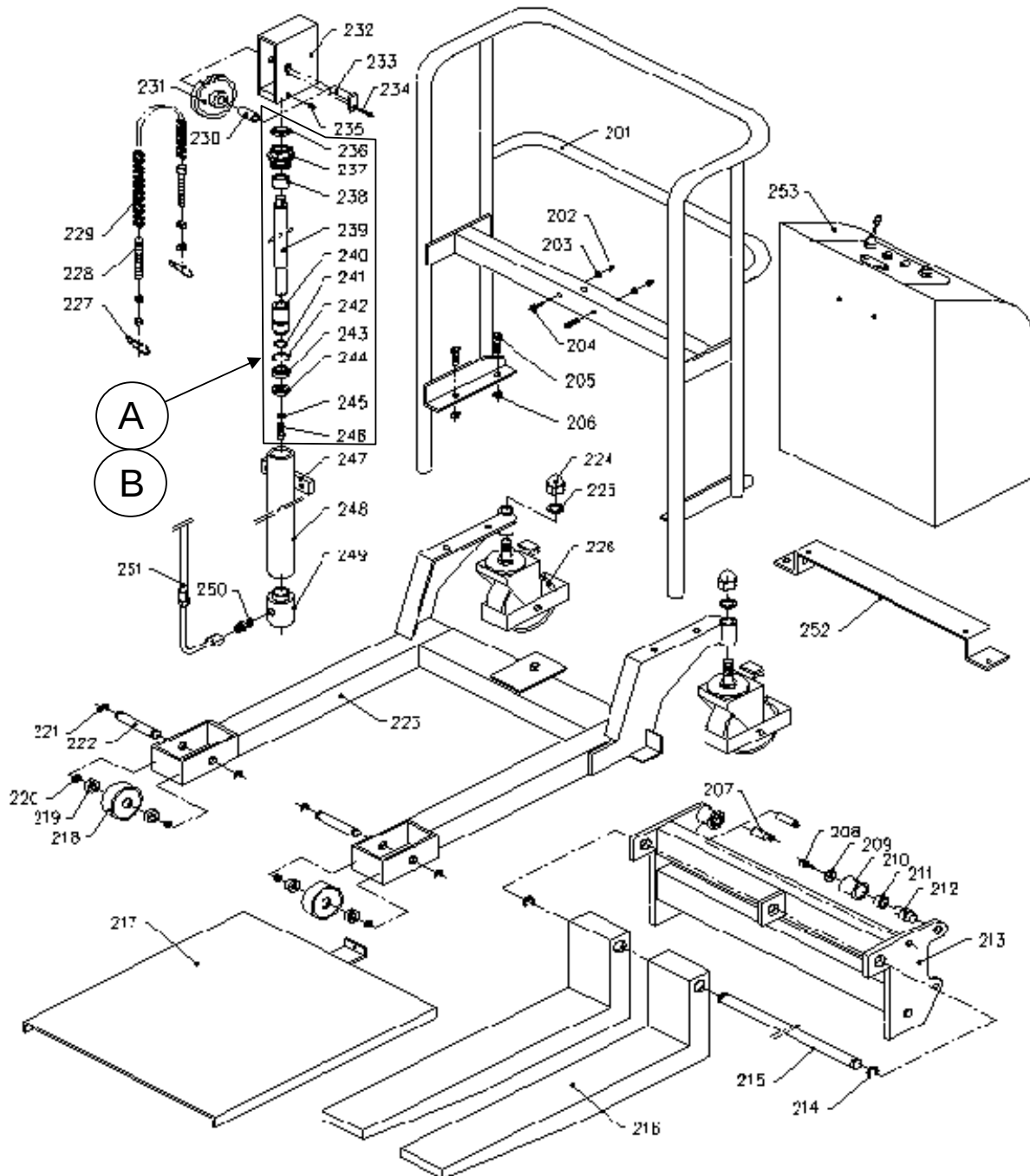
(Part # 273203 & 273204)

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10. PART INFORMATION (MODEL AFTER MAY 2010)

10.1 GENERAL ASSEMBLY PART DRAWING



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10. PART INFORMATION (MODEL AFTER MAY 2010)

10.2 GENERAL ASSEMBLY PART LIST

Item	P/N	Item Description	Qty
201**	273598	Handle Rack (Old Style)	1
	273599	Handle Rack (New Style)	
202	273342	Nut	2
203	273343	Washer	2
204	273344	Screw	2
205	273345	Bolt	4
206	273346	Nut	4
207	273347	Retaining Ring	4
208	273348	Bolt	4
209	273349	Washer	4
210	273350	Roller	4
211		Bearing	
212	273352	Pin for Roller	4
213	273353	Shelf	1
214	273354	Retaining Ring	2
215	273355	Long Shaft	1
216	273357	Fork	2
217	273358	Platform	1
218	273359	Front Wheel	2
219	273360	Bearing	4
220	273361	Retaining Ring	4
221	273362	Retaining Ring	4
222	273363	Pin for Front Wheel	2
223	273364	Chassis	1
224	273365	Nut	2
225	273366	Lock Washer	2
226	273367	Steering Wheel	2
227	273368	Pin	2

Item	P/N	Item Description	Qty
228	273369	Bolt for Chain	2
229	273326	Chain	1
230	273328	Bearing	1
231	273329	Chain Roller	1
232	273332	Chain Roller Cover	1
233	273330	Pin	1
234	273334	Bolt	2
235		Screw	1
A	273341	Cylinder: Hydraulic (Complete Ass'y)	1
B	273335	Kit: Seal (Items 236-246)	1
236	Kit: Seal 273335	Dustproof Ring	1
237		Upper Cover	1
238		Location Ring	1
239		Piston Rod	1
240		Piston	1
241		O-Ring	1
242		O-Ring	1
243		Y Sealing Ring	1
244		Retaining Ring	1
245		Washer	1
246		Screw	1
247	273336	Location Plate	1
248	273338	Cylinder	1
249	273338	Base for Oil Cylinder	1
250	273339	Union	2
251	273340	Oil Tube	1
252		Base for Electric Box	1
253		Electric Control Box	1

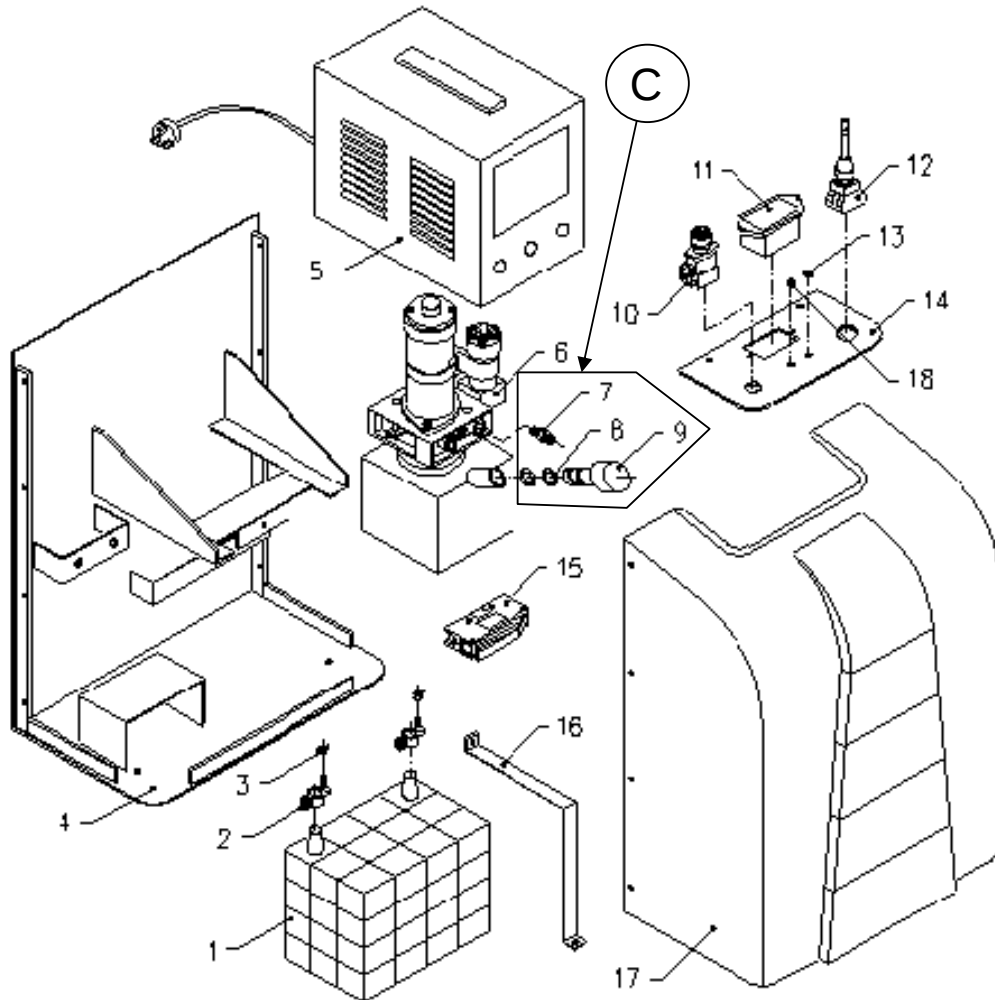
** Old: EJ4120 and EJ4120A

New: EJ4120N

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10. PART INFORMATION (MODEL AFTER MAY 2010)

10.3 BATTERY COMPARTMENT PART DRAWING



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10. PART INFORMATION (MODEL AFTER MAY 2010)

10.4 BATTERY COMPARTMENT PART LIST

Item	P/N	Item Description	Qty
1	273372	Battery	1
2		Connector	2
3		Nut	2
4		Case	1
5	273380	Charger	1
6	273374	Electric Pump	1
C	273375	Kit: Adapter, Air & Oil (Items 7, 8, 9)	1
7	Kit: Adapter, Air & Oil 273375	Oil Pipe Adapter	1
8		O-Ring	2
9		Plug	1
10	273376	Switch	1
11	273378	Battery Meter	1
12	273425	Joystick	1
13		Charging Status	1
14		Faceplate	1
15	273379	Fuse	1
16		Clamper	1
17	273407	Cover: Plastic "New Style"	1
	273371	Cover: Metal "Old Style"	1
18		Power Indicator	1
	273409	Ignition Key (Set of 2)	1