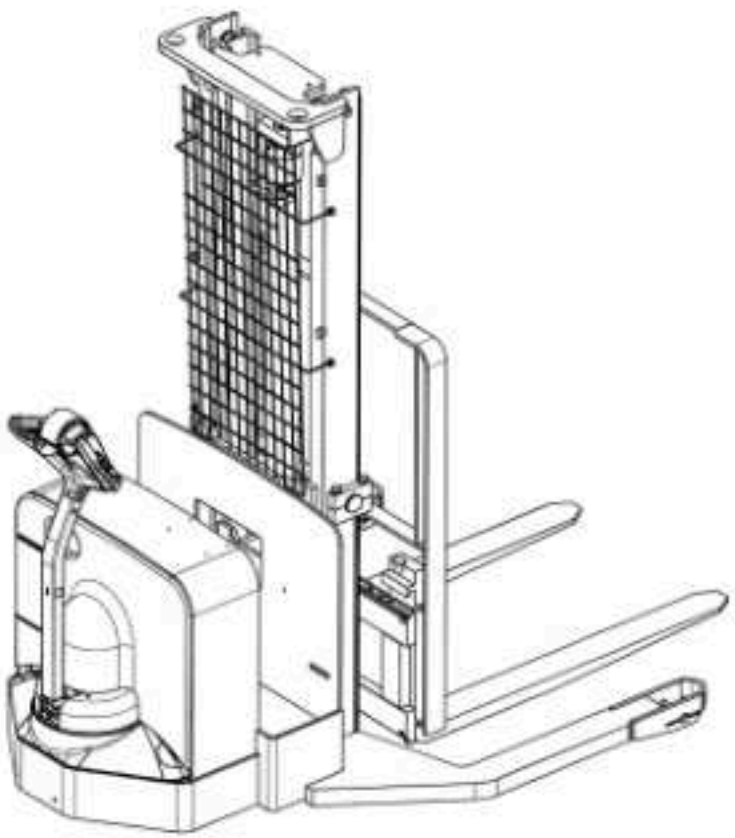
SERVICE MANUAL

B495 (W25ZA2-W30ZA2)



FORM 1692612 Rev. 07/14

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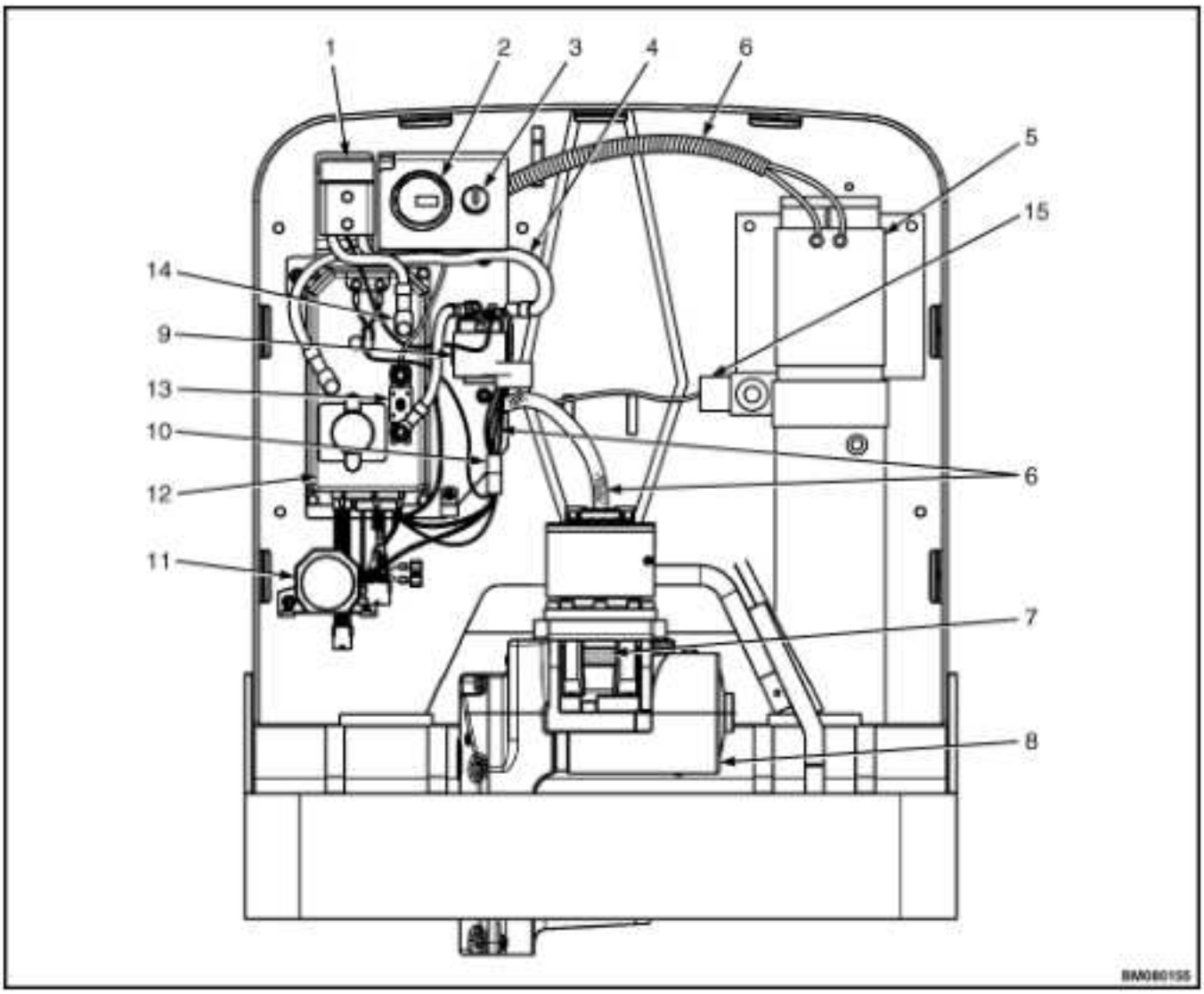
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This section is for the following models:

All Electric Lift Trucks

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1. BATTERY CONNECTOR
2. BATTERY INDICATOR/HOURMETER DISPLAY
3. KEY SWITCH
4. POSITIVE BATTERY CABLE
5. LIFT PUMP MOTOR
6. WIRING HARNESS
7. CONTROL HANDLE ARM PROXIMITY SWITCH
8. DRIVE MOTOR
9. MAIN CONTACTOR
10. CONTROL FUSE
11. HORN
12. ZAPI™ MOTOR CONTROLLER
13. POWER FUSE
14. NEGATIVE BATTERY CABLE
15. LOWERING VALVE

Figure 1. Electrical Components

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Troubleshooting

PROBLEM	POSSIBLE CAUSE	PROCEDURE OR ACTION
Lift truck will not move.	Dead battery.	Recharge or replace battery.
	Failed (Open) fuse.	Replace Failed (Open) fuse.
	Brake is applied.	Test the brake to ensure wiring to brake is good.
	Drive motor not operating.	Repair or replace drive motor.
	Sequencing fault.	Return handle to rest and recycle.
Mast will not raise the forks.	Dead battery.	Recharge or replace battery.
	Failed (Open) fuse.	Replace Failed (Open) fuse.
	Lift pump motor wiring loose or disconnected.	Reconnect or tighten loose wiring connections.
	Lift pump motor not operating.	Repair or replace lift pump motor.
Operator controls do not work.	Dead battery.	Recharge or replace battery.
	Failed (Open) fuse.	Replace Failed (Open) fuse.
	Control handle wiring loose or disconnected.	Check wiring and tighten or connect as needed.
	An individual switch is damaged.	Check switch and replace if inoperative.

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Master Drive Unit Specifications

Gear Ratio	Capacity	Oil Specification	
		Standard	CS/Freezer
42.2:1	189 ml (6.4 oz)	80W-90 Gear Oil (API GL-5)	80W-90 Gear Oil (API GL-5)

Tires and Wheels

Availability	Size	Material	Mounting	Color
Drive Tires and Wheels				
$W25ZA_2$ Only	9 × 4 in.	RAL 9005	Molded	Black
$W25ZA_2$ Only	9 × 4 in.	Topthane K-92	Molded	Brown
All Models	9 × 5 in.	Electric Compound	Press-On	Black
All Models	9 × 5 in.	Poly	Press-On	Brown
All Models	9 × 5 in.	Non-Marking Rubber	Press-On	Silver/Gray
All Models	9 × 5 in.	Siped Poly	Press-On	Brown
All Models	9 × 5 in.	Siped Poly	Press-On	Black
Load Wheels				
$W25ZA_2$	102 × 70 mm (4.0 × 2.75 in.)			
$W30ZA_2$	102 × 70 mm (4.0 × 2.75 in.)			

[a]Standard for $W25ZA_2$
[b]Standard for $W30ZA_2$

Torque Specifications

FRAME

Base Arm Mounting Bolts
300 N•m (221 lbf ft)

MASTER DRIVE UNIT

Drive Wheel Capscrew
115 N•m (85 lbf ft)

Traction Motor Gear Retaining Nut
26 N•m (19 lbf ft)

Traction Motor Capscrew (3 Places)
10 N•m (7 lbf ft)

Axle Shaft Gear Retaining Nut
175 N•m (129 lbf ft)

Drive Unit Pivot Spindle Nut
To Seat Bearings torque to:
54 N•m (40 lbf ft)
Back off and re-torque to:
34 N•m (25 lbf ft)

Gear Case Cover Capscrews
23 N•m (17 lbf ft)

Pivot Spindle Mounting Capscrews
23 N•m (17 lbf ft)

Drain Plug
40 N•m (30 lbf ft)

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