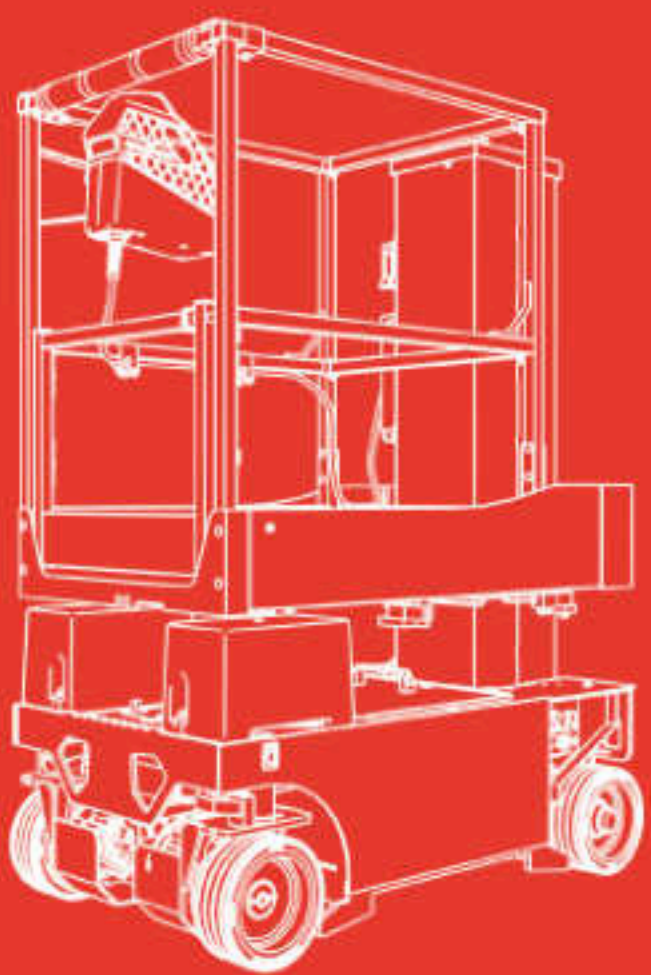
SKYJACK

SERVICE MANUAL

SJ12 E, SJ16 E, SJ20 E

VERTICAL MAST LIFTS



241914AFA
July 2 2026
ANSI/CSA, CE, AS

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Table 2.8 MEWP Specifications - S/N A601 001 638 and below

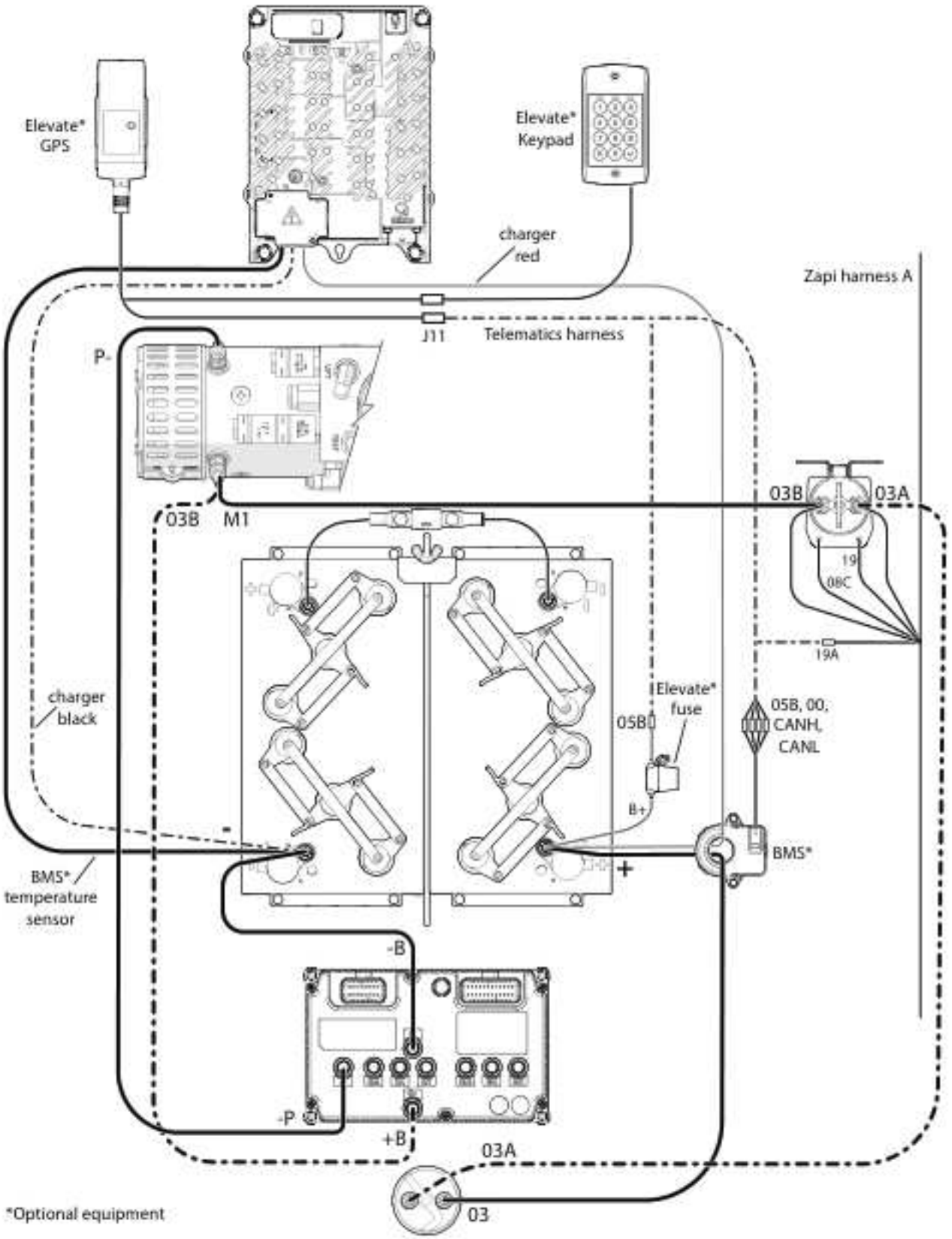
Model		SJ12 E		SJ16 E		SJ20 E	
Weight *		913 kg	2012 lb	931 kg	2054 lb	1107 kg	2440 lb
Overall width		0.77 m	30.5 in	0.77 m	30.5 in	0.80 m	31.5 in
Overall length		1.37 m	54 in	1.37 m	54 in	1.37 m	54 in
Platform size (Inside)		0.69 m x 0.91 m	27.13 in x 35.66 in	0.69 m x 0.91 m	27.13 in x 35.66 in	0.69 m x 0.91 m	27.13 in x 35.66 in
Platform traversing		0.41 m	16 in	0.41 m	16.00 in	0.41 m	16 in
Height							
Working height		5.48 m	18 ft	6.55 m	21 ft 6 in	7.77 m	25 ft 6 in
Platform elevated height		3.66 m	12 ft	4.72 m	15 ft 6 in	5.94 m	19 ft 6 in
Stowed platform height (railings up)		1.88 m	74 in	1.88 m	74 in	2.01 m	79.19 in
Drive height		Full		Full		Full	
Stowed platform height		0.75 m	29.7 in	0.75 m	29.7 in	0.75 m	29.7 in
Standard operating times							
Lift time (rated load)		15 s		21 s		26 s	
Lower time (rated load)		16 s		22 s		26 s	
Chassis							
Stowed drive speed	Forward	2.9 km/h 10 m/12 sec	1.8 mph 20 ft/8 sec	2.9 km/h 10 m/12 sec	1.8 mph 20 ft/8 sec	2.9 km/h 10 m/12 sec	1.8 mph 20 ft/8 sec
	Reverse	2.3 km/h 10 m/16 sec	1.4 mph 20 ft/10 sec	2.3 km/h 10 m/16 sec	1.4 mph 20 ft/10 sec	2.3 km/h 10 m/16 sec	1.4 mph 20 ft/10 sec
Elevated drive speed		0.5 km/h 5 m/36 sec	0.3 mph 10 ft/23 sec	0.5 km/h 5 m/36 sec	0.3 mph 10 ft/23 sec	0.5 km/h 5 m/36 sec	0.3 mph 10 ft/23 sec
Gradeability		25%		25%		25%	
Tires (solid rubber)		10 in x 4 in		10 in x 4 in		10 in x 4 in	
Hydraulic oil							
Type		ATF Dexron III		ATF Dexron III		ATF Dexron III	
Tank capacity		5.3 L	1.41 gal	5.3 L	1.41 gal	5.3 L	1.41 gal

** Weights are approximate; refer to the serial nameplate for the specific weight.*

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3.17 Battery wiring connections



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5.8-14 Skycoded A error codes

Code	Code String	SubCode	Cause	Troubleshooting
219	219-2H-13 ERR		Low Voltage/ No Voltage at Pin A13 at controller.	Check CB2 circuit breaker. Replace/ reset breaker if bad. If good, check from CB2 circuit breaker to X3-5 connector and from X3-5 to Pin A13 (wire 03C) at controller.
220	220-06C LOW		Voltage from the key-on is very low.	Check battery connections and voltage. If battery voltage is ok, then replace the controller.
223	223-C1 ERR		Contactor is shorted.	Check contactor function. Check the harness to the contactor. If contactor not working, replace the contactor.
224	224-CHK SLAVE		Error on Slave side.	Check error on Slave side.
226	226-JSTK ERR		CAN message is out of range.	Replace the joystick.
227	227-CTRL ERR		Faulty controller.	Replace the controller.
229	229-CTRL ERR		Faulty controller.	Replace the controller.
230	230-C1 ERR		Contactor circuit is open.	Check contactor connection and function. Check the harness to the contactor. If contactor not working, replace the contactor.
231	231-CTRL ERR		Internal controller error.	Replace the controller.
232	232-CTRL ERR		Internal controller error.	Replace the controller.
233	233-CTRL ERR		Internal controller error.	Replace the controller.
234	234-CTRL ERR	M 8	Right steering solenoid short A24.	Check connection on right steering solenoid for short. Check condition of harness.
		M 10	Left steering solenoid short A1.	Check connection on left steering solenoid for short. Check condition of harness.
		M 4	Lift solenoid short A25.	Check connection on lift solenoid for short. Check condition of harness.
		S10	Base E-Stop light	Check connection on base e-stop LED. Check condition of harness.
		M 20	Beeper harnesss hort A2.	Check connection on beeper harness for short in lower control box. Check condition of harness.
		S 40	Horn connection short B21.	Check connection on horn for short in lower control box. Check condition of harness.
		S 20	Flashing light connection short B20.	Check connection on flashing light for short. Check condition of harness.
235	235-CTRL ERR		Faulty controller.	Replace the controller.

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5.7 Skycoded display identification

5.7-1 About the display

⚠ WARNING

Only trained and authorized personnel are permitted to service a MEWP.

⚠ WARNING

Read all instructions closely before attempting each phase of the calibration procedure.

The Skycoded display is located on the rear right side of the MEWP with the base controls. The default display view shows the battery charge, hour meter, and traction speed.

Use the Skycoded display to calibrate, diagnose issues, and adjust or set options and parameters.

5.7-2 Identification

Your MEWP has one of two possible Skycoded display modules. The modules are referred to as **Skycoded Display A** and **Skycoded Display B** (or **Skycoded A** and **Skycoded B**) throughout Section 5 of this manual.

Identify which display module is installed on your MEWP, and refer to the specific section of this manual for the applicable flowcharts and procedures.

Skycoded Display A has 5 small red indicator lights along the bottom of the module. **Skycoded Display B** does not have any indicator lights along the bottom.



Skycoded Display A



Skycoded Display B

Go to *5.8 Skycoded display A* for **Skycoded Display A** flowcharts and procedures.

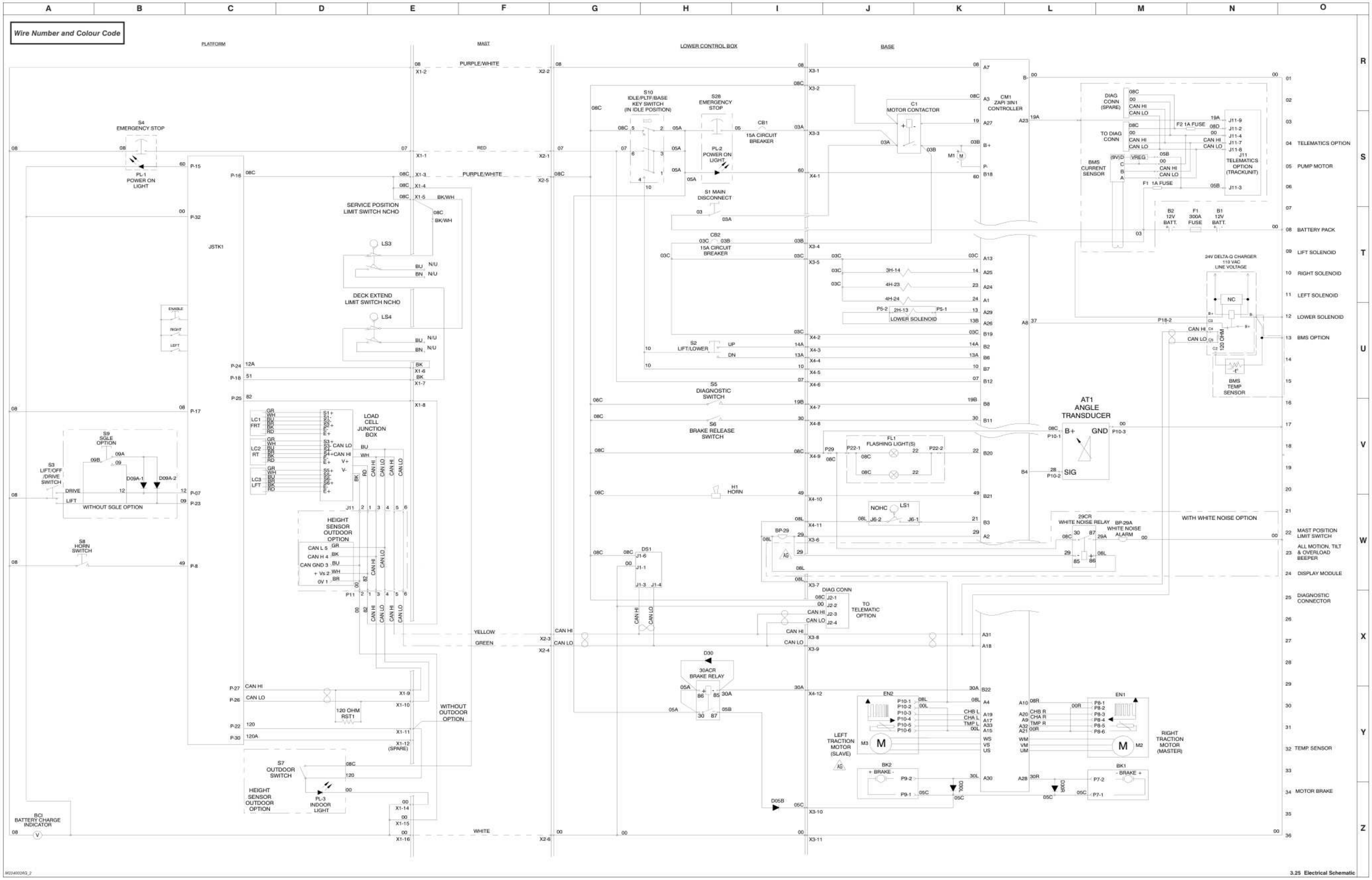
Go to *5.9 Skycoded display B* for **Skycoded Display B** flowcharts and procedures.

Look for these symbols on the pages to help determine if you are looking at information for display A or B.

Skycoded A

Skycoded B

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