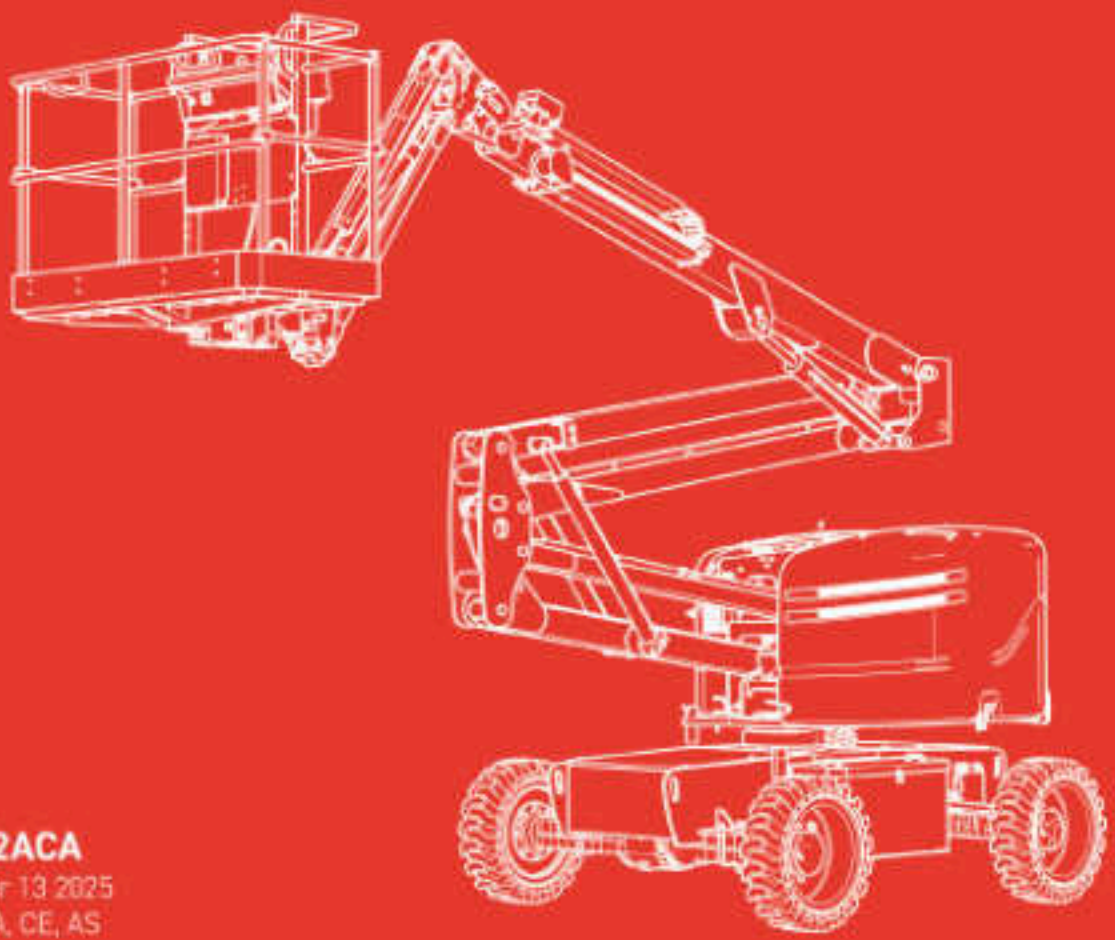
SKYJACK

SERVICE MANUAL

SJ45 AJE+

ARTICULATING BOOMS



256672ACA
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ANSI/CSA, CE, AS

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3.3 Wire Number and Colour Chart

Wire No.	Wire Colour	Wire No.	Wire Colour
B+	GREEN/PURPLE	34	ORANGE/BLACK
0	WHITE	35	ORANGE/WHITE
1	PURPLE/BLACK	36	RED/PURPLE
2	WHITE	37	WHITE/RED/BLACK
3	GREEN/PURPLE	38	ORANGE/RED
4	RED/YELLOW	39	BLACK/RED
5	PURPLE	40	BLUE/RED
7	RED	41	BLUE/PURPLE
9	YELLOW	42	PINK
10	BLUE/WHITE	45	YELLOW/ORANGE
11	WHITE/ORANGE	49	GREEN/RED
12	RED/BLACK/YELLOW	55	YELLOW/PURPLE
13	ORANGE	57	BROWN/GREEN
14	BLACK	59	YELLOW/BLUE
15	BLUE	65	YELLOW/PINK
16	WHITE/BLACK	68	GREY
17	BLUE/GREEN	74	GREEN/GREY
20	ORANGE/BLUE	76	BROWN/BLUE
21	WHITE/RED	77	BROWN/GREY
23	BLACK/WHITE	85	GREY/BLUE
24	BLUE/BLACK	108	YELLOW/BROWN
26	BLUE/YELLOW	118	PURPLE/PINK
28	GREEN	119	PURPLE/YELLOW
29	GREY/ORANGE(BLACK)	120	GREY/BROWN
30	RED/GREEN	121	GREY/RED
31	RED/WHITE	122	GREY/YELLOW
32	GREEN/BLACK	126	BLACK/YELLOW
33	GREEN/WHITE	165	PINK/BLACK

This table is a wire number/colour reference for all electrical drawings and schematics. All wire numbers retain their original colour coding; for example if wire 7 is red, wires 7A, 7B, and 7C are also red. *2176AB*

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5.2-9 SCM Calibration

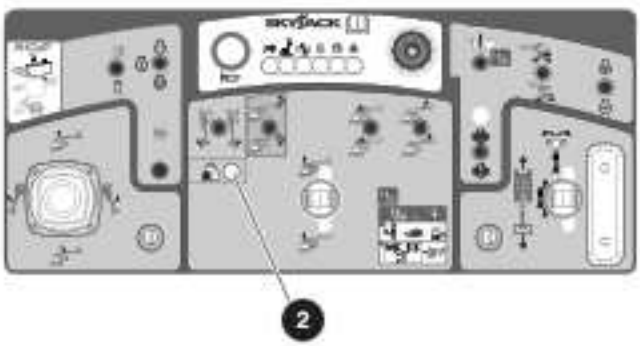
Tare weight calibration sets the unladen weight of the platform. It is the weight of an empty platform that the SCM subtracts from the gross weight reading of the load cell, giving a new zero (net) weight to start from when measuring the contents of the platform.

Net weight = Gross weight - Tare weight

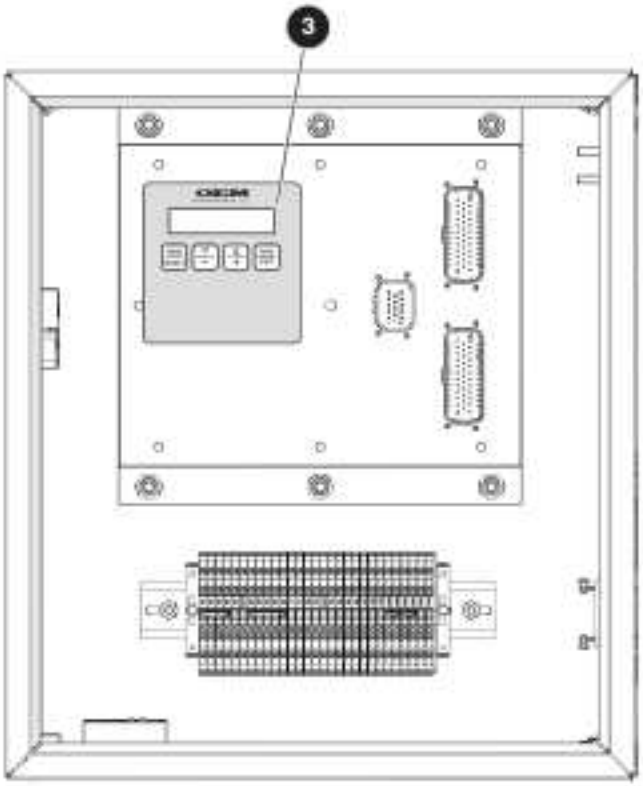
Net weight: the weight of the platform.
Gross weight: the total weight as measured by the load cell.
Tare weight: the weight of the empty platform as set by the tare weight calibration.

1. Make sure the platform is level.
2. Remove all items from the platform, including optional attachments.
3. Make sure the **capacity derate switch** ❶ is in the full capacity position, and the **capacity derate light** ❷ is not on.





4. Do the calibration procedure from the **SCM** ❸ in the base control box. Follow the flowchart on the next page.



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5.6-2 Decode the faults displayed

The screen displays one fault code at a time. If there are more faults than the active user interface can display simultaneously, the display periodically cycles through the fault codes.

It does not display faults for the following controllers:

- Dual traction (left and right controllers)
- Pump
- Steering

Faults are displayed in the following format:

- Fault source indicator
- A colon
- The fault code, which consists of a character, a comma, and another character.
- If the fault has a fault type, the fault type is displayed within brackets.

BMS and lift lock driver overcurrent faults have different formats:

- BMS fault codes consist of three characters *(example:* BAT:013*)*.
- Lift lock driver overcurrent faults do not have fault codes. Instead, the screen displays only the fault source indicator *(example:* OC or OverCurrent*)*
- System control module faults consist of one character (*example:* BCS:2)

With the fault codes on the display referenced against the fault source indicator (refer to *5.6-4 System control module fault codes (BCS)*) and the fault code list (refer to *5.6-4 System control module fault codes (BCS)* and *5.6-5 Traction controller fault codes (TRA)*), the service technician can solve the fault and correct the error. If the fault information suggests a serious problem that cannot be addressed by the codes tables, contact the Skyjack Service Department.Fault source indicators

5.6-3 Fault source indicators

Code	Fault Source
TRA	Traction controller
BAT	Battery Management System (BMS)
OC	Lift lock driver (overcurrent)
BCS	System Control Module (SMB)

5.6-4 System control module fault codes (BCS)

Code	Fault name
0	I/O Error
1	Telematics
2	Tilt calibration
3	Moba

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5.4-5 Master Cylinder Replacement

1. Make sure the MEWP is parked on a firm and level surface.

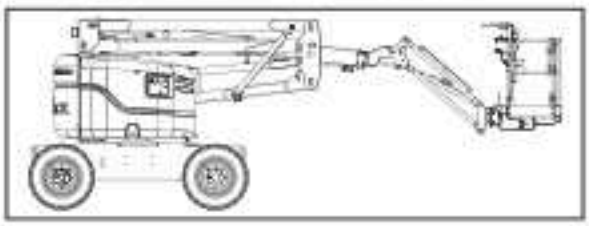
⚠ WARNING

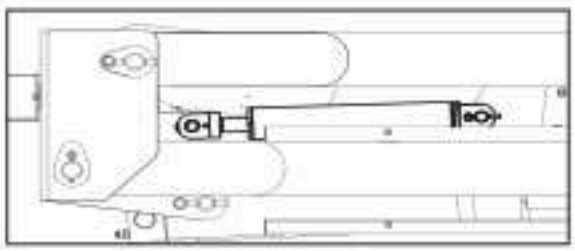
Ensure that there is sufficient room for boom to swing and elevate.

⚠ WARNING

Be aware of overhead obstructions or other possible hazards around the machine when lifting.

2. By using the base controls, position the machine as below to allow for easy work access to the basket/jib boom and the master cylinder.





3. Turn the main disconnect switch to the off position. Lock the switch to prevent unauthorized use during this procedure.

NOTE

Make sure all components are secured before lifting or removing them.

4. Using straps, secure the main boom on suitable lifting equipment such as a crane.

5. Secure the master cylinder with straps. See below for an example.



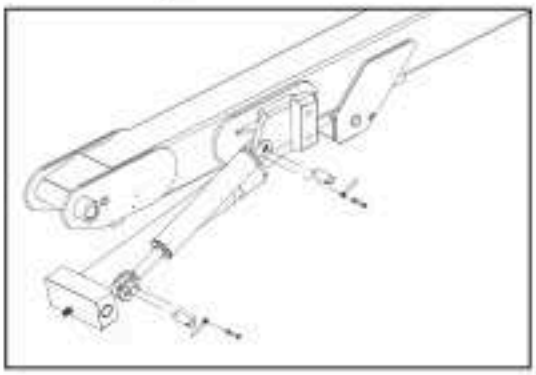
⚠ CAUTION

Label all electrical cables and hydraulic hoses before removal

⚠ CAUTION

To prevent hydraulic system contaminations, cap all hydraulic hoses and fittings after removal.

6. Remove the hydraulic hoses and fittings on the master cylinder. Replace any worn or damaged components.
7. Disconnect the master cylinder from the main boom by removing the connecting pin, see below. Set all parts aside for reuse.



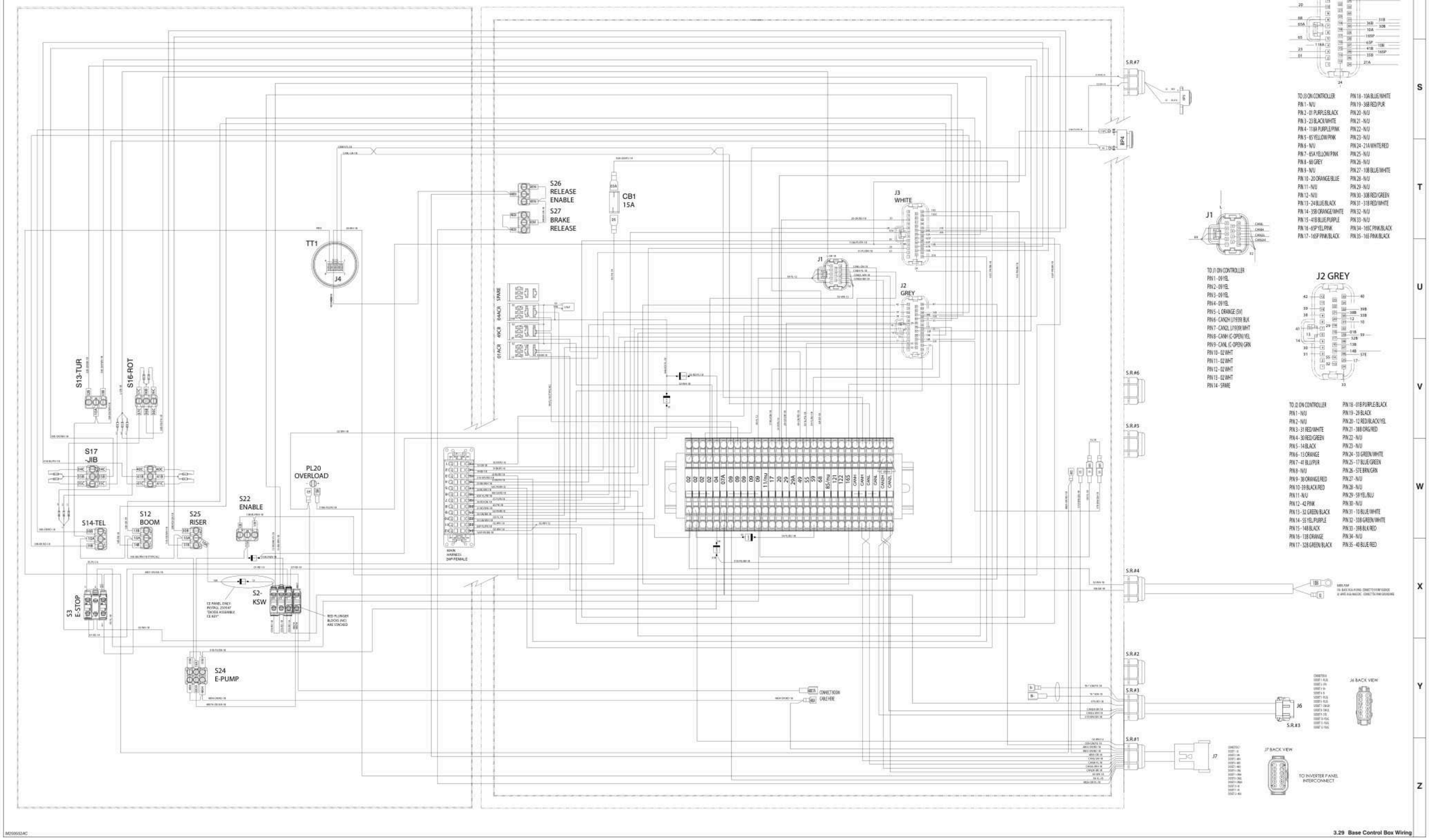
8. Install the new master by installing the cylinder pins as shown above. Secure the keeper pin and the bolt with Loctile 242 (Blue) or equivalent.
9. Install the hydraulic hoses and fittings on the master cylinder.

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A	B	C	D	E	F	G	H	I	J	K	L	M	N	O

Wire Number and Colour Chart

Relay diagrams



M2550532AC

3.29 Base Control Box Wiring

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