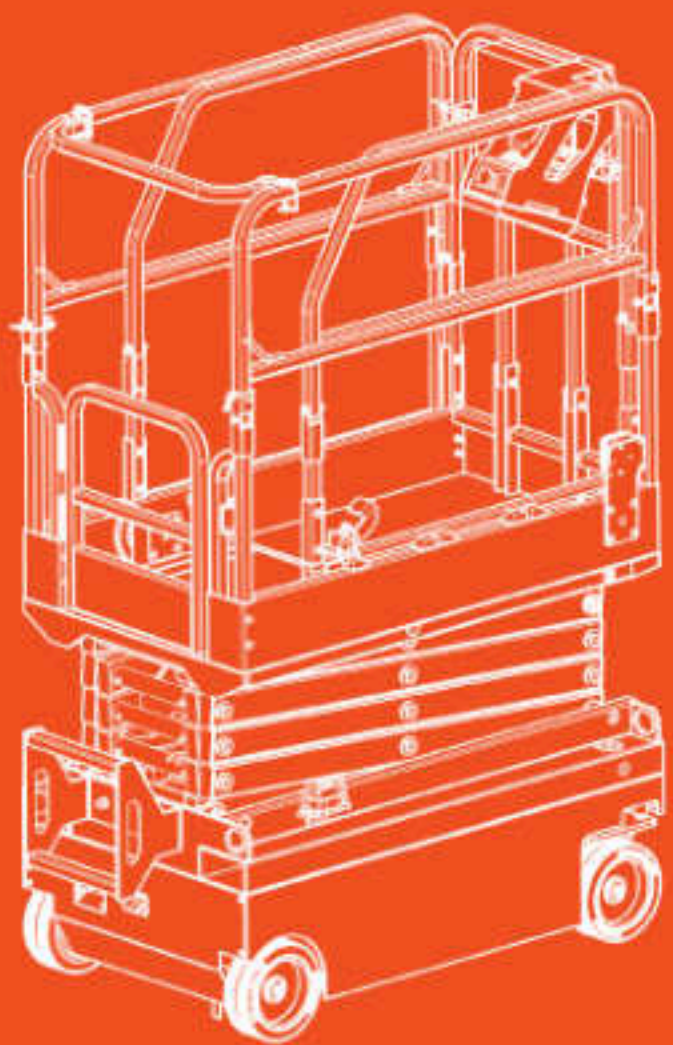
SKYJACK

SERVICE MANUAL

SJ3013 micro, SJ3014 micro

DC ELECTRIC SCISSORS



238839ADA

December 18 2025

ANSI, CE

MidWestTech | Skyjack SJ3013 micro, SJ3014 micro Electric Scissor Lift Service Manual |... Order the manual at mid-west-tech.com >

Table of Contents

Section 1 – Scheduled Maintenance 7

1.1 Read and Heed 7

1.1-1 Mobile Elevating Work Platform (MEWP) definition 7

1.1-2 Purpose of Equipment 7

1.1-3 Use of Equipment 7

1.1-4 Service Policy and Warranty 7

1.1-5 Ownership of MEWP 7

1.1-6 Optional equipment 7

1.2 Maintenance and Inspection Schedule 8

1.2-1 Owner's Annual Inspection Record 8

1.2-2 Replacement Parts 8

1.2-3 Maintenance and Service Safety Tips 8

1.2-4 Hydraulic System & Component Maintenance and Repair 9

1.2-5 Maintenance Hints 10

1.2-6 About this Section 11

1.2-7 Maintenance Instructions 11

1.3 Owner's Annual Inspection Record 12

1.4 Frequent/Periodic/Annual/Pre-Delivery Inspection Checklist 13

1.5 General inspections 14

1.5-1 Service Bulletins (B) 14

1.5-2 Annual Inspections (B) 14

1.5-3 Labels (B) 14

1.5-4 Pothole protection limit switches (B) 14

1.6 Base inspection 15

1.6-1 System components tray 17

1.7 Lift mechanism inspection 19

1.8 Platform inspection 23

1.9 Function Tests 24

Section 2 – Maintenance Tables and Diagrams 25

2.1 Torque specifications for fasteners (US) 26

2.2 Torque specifications for fasteners (metric) 27

2.3 Torque specifications for hydraulic couplings & hoses 28

2.4 Specifications & Features 29

2.5 Maximum platform capacities (evenly distributed) 30

2.6 Floor loading pressure 30

2.7 Wheel nut torque 31

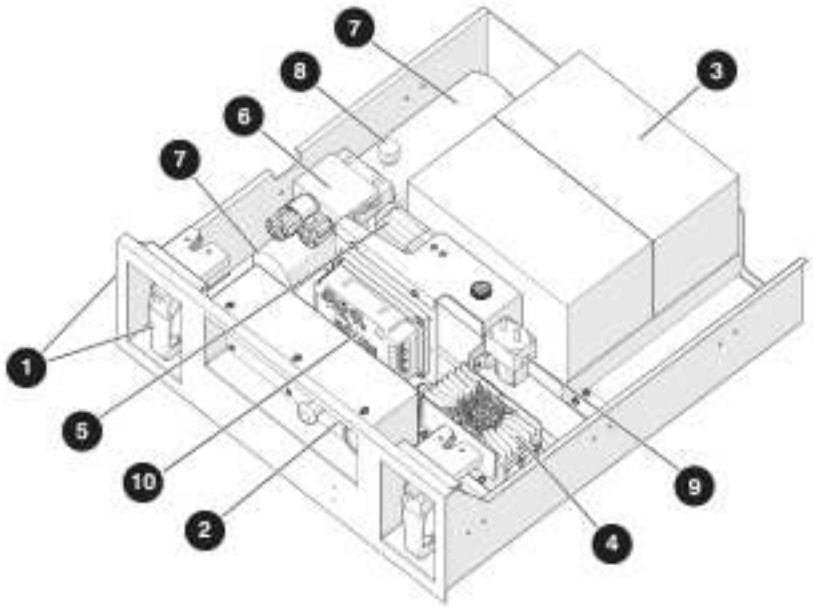
MidWestTech | Skyjack SJ3013 micro, SJ3014 micro Electric Scissor Lift Service Manual |... Order the manual at mid-west-tech.com >

Section 3 – System Component Identification and Schematics 32
3.1 Platform to Base Control Cable 33
3.2 Large Current Wiring Diagram 34
3.3 Telematics Harness 35
3.4 Ground Control Wiring Diagram (Page 1 of 2) 36
3.5 Ground Control Wiring Diagram (Page 2 of 2) 37
3.6 Electric Schematic Diagram 38
3.7 Hydraulic Schematic Diagram 39

Section 4 – Troubleshooting Information 40
4.1 Introduction 40
4.2 Electrical System 41
4.2-1 All Controls Inoperative 41
4.2-2 No Lift or Steer functions 42
4.2-3 No Lift from base or platform 43
4.2-4 No Lower from base or platform 43
4.2-5 No lift or lower from base controls 43
4.2-6 No lift from base controls 43
4.2-7 No lower from base controls 44
4.2-8 No functions from platform controls 44
4.2-9 No lift/lower from platform controls 44
4.2-10 No steer left 45
4.2-11 No steer right 45
4.2-12 No drive 45
4.3 Hydraulic System 47
4.3-1 All Hydraulic Controls Inoperative (No Lift or Steer functions) 47
4.3-2 No Lift function 47
4.3-3 No Lower function 47
4.3-4 No steer left and/or right 47

Section 5 – Procedures 48
5.1 General 48
5.1-1 Safety and Workmanship 48
5.2 *.PGT Setting File Upload Process 49
5.3 TS200 51
5.3-1 TS200 Pin Chart 51
5.3-2 Display Messages and Codes 53
5.3-3 TS200 Menu Table with EZcal 58
5.3-4 Calibrate Level Procedure 64
5.3-5 Calibrate Load Procedure 64
5.3-6 Calibration Fault Codes 67

MidWestTech | Skyjack SJ3013 micro, SJ3014 micro Electric Scissor Lift Service Manual |... Order the manual at mid-west-tech.com >



7 Hydraulic pump and motor (B)

- Make sure there are no loose or missing parts.
- Make sure there is no visible damage.
- Make sure all bolts are correctly tightened.
- Make sure all fittings and hoses are correctly tightened and there are no hydraulic leaks.

8 Hydraulic oil level (B, C)

- B - Frequent/periodic/pre-delivery inspection
  - Fully lower the platform.
  - Do a check of the oil level on the dipstick of the hydraulic filler cap. Add oil if it is necessary.
- C - Annual inspection
  - Do a check of the hydraulic oil for contamination and make sure the filter is in good condition.
  - Replace the hydraulic oil and filters if necessary.

9 Electrical components (B)

- Do a check on these areas for chafed, corroded, and loose wires:
  1. Base to platform cables and wiring harness
  2. Battery tray wiring harnesses
  3. Hydraulic and electrical wiring harnesses.

10 Motor controller (B)

- Make sure the motor controller is correctly attached, and there is no visible damage.
- Make sure there are no loose wires or missing fasteners.

MidWestTech | Skyjack SJ3013 micro, SJ3014 micro Electric Scissor Lift Service Manual |... Order the manual at mid-west-tech.com >

Table 2.5 Maximum platform capacities (evenly distributed)

Model	Wind rating	Total platform capacity		Extension platform capacity		Manual side force	Tilt cutout setting (side-to-side x front-to-back)
SJ3013 & SJ3014 micro	0 m/s [0 mph]	240 kg (529 lb)	2 Persons	100 kg (220 lb)	1 Person	400 N 90 lbf	1.5˚ × 2.5˚

2079AB

NOTE

Occupants and materials are not to exceed the rated load. Refer to the capacity label at the entrance of the platform and the front kick plate for more information and models equipped with options.

Table 2.6 Floor loading pressure

Model		Weights				Pressures			
		MEWP weight		Max weight per wheel		LCP**		OFL**	
		kg	lb	kg	lb	N/mm²	psi	N/mm²	psf
SJ3013 & SJ3014 micro	Min*	820	1808	265	584	0.57	82	0.013	271
	Max*	1060	2337						

2080AB

* **Min:** Minimum MEWP weight (Unloaded platform, no options/attachments)
Max: Maximum MEWP weight (Platform loaded to capacity with options/attachments)

Wheel is the weight that can be experienced on one wheel.
Note: *This is more than 25% of the machine weight due to possible weight distribution over the machine and platform.*

** **LCP:** Local Concentrated Pressure is a measure of how hard the MEWP presses on the area in direct contact with the floor/tire.
OFL: Overall Floor Load (Pressure) is a measure of the average load the MEWP imparts on the whole surface directly underneath the chassis. This has been calculated by dividing the MEWP weight by the overall floor area occupied by the MEWP (on wheels).

Note: *The floor covering (e.g., tile, carpet, etc.) or the structure (e.g., beams) of the operating surface must be able to withstand more than the values indicated above.*

Note: *The LCP or OFL that an individual surface can withstand varies from structure to structure and is generally determined by the engineer or architect for that particular structure.*

MidWestTech | Skyjack SJ3013 micro, SJ3014 micro Electric Scissor Lift Service Manual |... Order the manual at mid-west-tech.com >

Section 4 – Troubleshooting Information

4.1 Introduction

The following pages contain a table of Troubleshooting for locating and correcting most service trouble which can develop. Careful and accurate analysis of the systems listed in the table of Troubleshooting will localize the trouble more quickly than any other method. This manual cannot cover all possible troubles and deficiencies that may occur. If a specific trouble is not listed, isolate the major component in which the trouble occurs, isolate whether the problem is electrical or hydraulic, and then isolate and correct the specific problem.

The content of this section is separated into "probable cause" and "remedy." The information in the left-hand column, preceded by a number, represents the "probable cause." The information in the right-hand column, in bold text, represents the "remedy" to the "probable cause" directly beside it. See the example below for clarification.

1. Probable cause	**Remedy**

MidWestTech | Skyjack SJ3013 micro, SJ3014 micro Electric Scissor Lift Service Manual |... Order the manual at mid-west-tech.com >

8. Turn on the machine at the main power disconnect and pull out both E-Stops.
9. Enter the "EZCal Pro Menu" by one of the following methods:
   a. Press and hold the ESC key while connecting the EZcalPro to the controller, or
   b. Press and hold the ESC key for about 5 seconds, if the EZcalPro is already connected to the controller, or
   c. Press the ESC key while pressing the ? button (avoids the 5 second delay)



10. "EZcal Pro MENU: SETUP" will be displayed.



11. Scroll right and select "LOAD from EZcal"
    Hit Enter



12. Scroll right through the pgt files on the EZCal until you locate the intended file. The example used in the image below is called "Settings Push.pgt". Check you know the name of the correct file being uploaded for the task.
    Press the up arrow to select "YES".
    Hit Enter



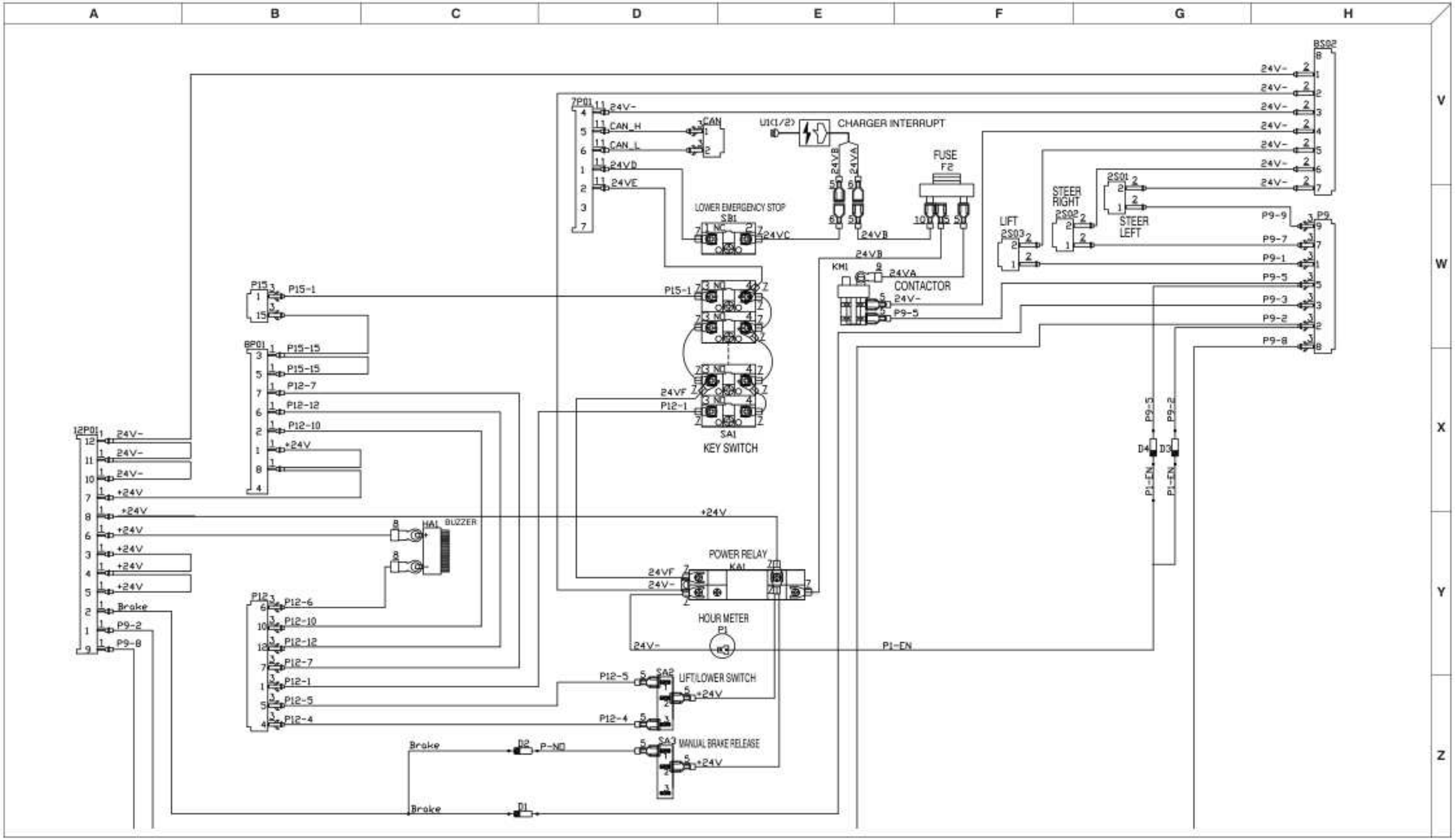
13. The screen will update as the upload happens. Depending on the size of the upload, you may see some or all of the following screens:
    a. "WORKING" ➡ "LOADCOUNT=x" ➡ "% COMPLETE"
    b. The Upload is finished when the screen reads "OK".
14. Push in and pull out the E-Stop on the base.
15. Go back into the normal EZCal menu and check the adjustments have been successfully updated on the board by using the and key to select "ADJUSTMENTS". Check you know what settings need to be checked for the specific task



16. Remove the EZCal Pro from the control board, close up any trays/doors that were opened and turn off the machine.
17. Update is completed. Perform any function checks and tests recommended in the task.
18. If any errors occur during the process, stop the upload and contact Skyjack for support.

MidWestTech | Skyjack SJ3013 micro, SJ3014 micro Electric Scissor Lift Service Manual |... Order the manual at mid-west-tech.com >

3.4 Ground Control Wiring Diagram (Page 1 of 2)



MidWestTech | Skyjack SJ3013 micro, SJ3014 micro Electric Scissor Lift Service Manual | Publication 238839ADA

Order the manual at mid-west-tech.com >