



Service Bulletin #101
Load Sensing System Replacement for CE Models
*******SAFETY RELATED*******

June 2, 2005

Product Affected: SJIII3215, SJIII3219, SJIII3220, SJIII3220M, SJIII3226, SJIII3226M, SJIII4620, SJIII4626, SJIII4632, SJIII4832, SJIII6826, SJIII6832E, SJ7127, SJ7135, SJ8831, SJ8841C, SJ8841E, SJ9250.

SJIII3215

151981, 152122, 152124, 152127 to 152129, 152221 to 152234, 152262 to 152269, 152313, 152343 to 152359.

SJIII3219

237787 to 237819, 237951 to 237958, 237960 to 237964, 238118 to 238130, 238540 to 238553, 238588 to 238601, 238745 to 238761, 238763 to 238769, 238771, 238772, 239139 to 239166, 239348 to 239361, 239537 to 239550, 239652 to 239665, 239771 to 239784, 239865 to 239878, 239957 to 239970, 240751 to 240764, 240836 to 240849, 241137 to 241150, 241259 to 241272, 241745 to 241750, 241949 to 241962, 243064 to 243075, 243244 to 243249, 243443 to 243456, 243789 to 243810, 243961 to 243974, 244085 to 244112, 244267 to 244294, 244433 to 244446, 244511 to 244521.

SJIII3220

614895, 615052 to 615056, 615065 to 615067, 615309, 615595 to 615662, 616415 to 616427, 616455 to 616466.

SJIII3220M

M600067 to M600144.

SJIII3226

270782, 270784, 270981, 270982, 271011 to 271016, 272969 to 272981, 273032 to 273041, 273052 to 273061, 273082 to 273090.

SJIII3226M

M270080, M270090 to M270219, M271064.

SJIII4620

66872, 66873, 710208 to 710231, 710241 to 710246, 710248 to 710251, 710322 to 710329, 710371 to 710376, 710395 to 710399, 710632 to 710634.

**SJIII4626**

709313 to 709335, 709337 to 709363, 709365 to 709373, 709398, 709399, 709407 to 709416, 709427 to 709440, 709462 to 709464, 709471 to 709477, 709510, 709515, 709516, 709526 to 709528, 709542 to 709544, 709556 to 709559, 710005, 710087, 710394, 710468 to 710487, 710607 to 710609, 710635 to 710641, 710652 to 710656, 710743, 710744, 710794 to 710806, 710822 to 710826, 710932 to 710940, 710984 to 710991, 711002 to 711009, 711030 to 711032, 711041, 711042, 711164 to 711173, 711270 to 711279, 711375 to 711377.

SJIII4632

710003, 710004, 710088, 710172 to 710184, 710247, 710252 to 710271, 710410 to 710415, 710432 to 710437, 710446 to 710448, 710642 to 710651, 710709 to 710717, 710719, 710720, 710756 to 710761, 710807 to 710813, 710992 to 711001, 711010 to 711020, 711043, 711044, 711053, 711194 to 711208, 711255 to 711269, 711316 to 711323, 711386, 711387, 711392, 711408, 711428.

SJIII4832

870756 to 870802, 870889 to 870895, 870914 to 870920, 870936 to 870943, 870962 to 870966, 870968 to 870970, 871018 to 871020, 871026 to 871035, 871055 to 871057, 871066 to 871068, 871086 to 871088, 871097 to 871099.

SJIII6826

75639.

SJIII6832E

83001, 83054, 83074 to 83079, 83092, 83098, 83102, 83109 to 83111, 83113 to 83116, 83118 to 83123.

SJ7127

340432, 340480 to 340483, 340490, 340491, 340675 to 340677, 340693 to 340696, 340846 to 340849, 340881, 340980.

SJ7135

340462, 340475 to 340479, 340534 to 340539, 340717 to 340721, 340742 to 340745, 340756 to 340759, 340788 to 340793, 340851, 340852, 340865 to 340869, 340879, 340880, 340896, 340897, 341010 to 341018.

SJ8831

37372, 37374 to 37387, 37395 to 37404, 37406, 37422 to 37436, 37441 to 37445, 37447.

SJ8841

42897 to 42902, 42930, 42933 to 42936, 42940, 42942, 42944, 42946, 42951 to 42953, 42959, 42960, 42964 to 42966, 42970 to 42974, 42985 to 42989, 42993 to 43003, 43012, 43013, 43024 to 43028, 43035, 43036 to 43041, 43045 to 43053, 43055 to 43058, 43065 to 43072, 43081, 43082, 43085 to 43094, 43100 to 43103.

SJ8841E

43014 to 43023, 43075.



SJ9250

51124 to 51127, 51139 to 51147, 51153 to 51157, 51159 to 51161, 51163 to 51165, 51167, 51168, 51170, 51172 to 51187, 51189 to 51197, 51200 to 51205, 51207, 51209, 51211, 51213 to 51215, 51218 to 51223, 51226 to 51235, 51238 to 51242, 51245 to 51250, 51254 to 51256, 51262, 51263, 51265 to 51272, 51275 to 51277, 51280 to 51283, 51286 to 51290, 51292 to 51297, 51299 to 51308, 51314 to 51323, 51326 to 51329, 51331 to 51333, 51337 to 51340, 51343 to 51360, 51362 to 51379.

Introduction:

To ensure the safety of our customers and yours, we **require** that the following component replacement for all CE machines listed above be completed. Without this replacement, the possibility exists that a failure may occur that will allow operation of the machine beyond the normal limits of lateral or longitudinal slope. Therefore it is **imperative** that this bulletin be completed immediately. Please follow the instructions included to complete this repair.

All Skyjack CE Machines manufactured from July 2003 until present have been equipped with load sensing systems. During this period, a number of issues have arisen. Issues and impacts are as follows:

Scissors lifts:

- The angle sensors incorporated in the main controller occasionally exhibit temperature differential sensitivity. This can lead to incorrect tilt angle measurements of less than 2 degrees. This can lead to incorrect triggering of the tilt alarm system. It also can lead to incorrect load measurements, leading to premature overload alarms.
- In early 2004, the pressure transducer manufacturer made an unannounced change to the transducer's electronics. These changes rendered the sensor minimally compatible with the rest of the vehicle electronics and lead to a very high failure rate.
- Certain elements of the controller's software algorithms could allow inaccuracies of load measurements.

The above situations of tilt, overload and transducer failure all trigger similar alarms and have been interpreted en-masse as premature overloads.

Tools Required:

- Easy-Cal Hand Held Calibration/Diagnostic Tool
- Wrenches
- Screwdrivers
- Others as required



Procedure:

See the attached procedure for each model.

Models	Procedure Part Number
SJIII 4620/6826/6832	134479AD
SJ 7127/SJ 8831	134480AC
SJ 7135/SJ 8841	134481AC
SJ 6826E/SJ6832E	134482AC
SJ 8831E	134483AC
SJ 8841E	134484AC
SJ 9250	134491AC
SJIII 3226	134456AD
SJIII 3215	134473AC
SJIII 3219	134475AC
SJIII 3220/4626/4632/4832	134478AD

Parts and Warranty Policy:

Skyjack Inc. will supply the required parts at no charge.

Skyjack Inc. will pay 2 hours of labour and up to 4 hours of travel time for this bulletin.

Upon completion, send in a warranty claim form for each machine, stating that Service Bulletin #101 has been completed.

Ownership of Machines:

If you have sold or transferred a machine(s) with the serial numbers listed above, it is **your responsibility** to forward this service bulletin to the current owner and to notify Skyjack Inc.

Contact Information:

We regret the inconvenience and appreciate your cooperation. If you have any questions please call Skyjack Service at **(44) 1691-676 236** or Fax **(44) 1691-676 238**. You can e-mail any questions to service@skyjackinc.com



**SJ-III 4620/6826/6832
Series**

***Load Sensing System
Retrofit Procedure***

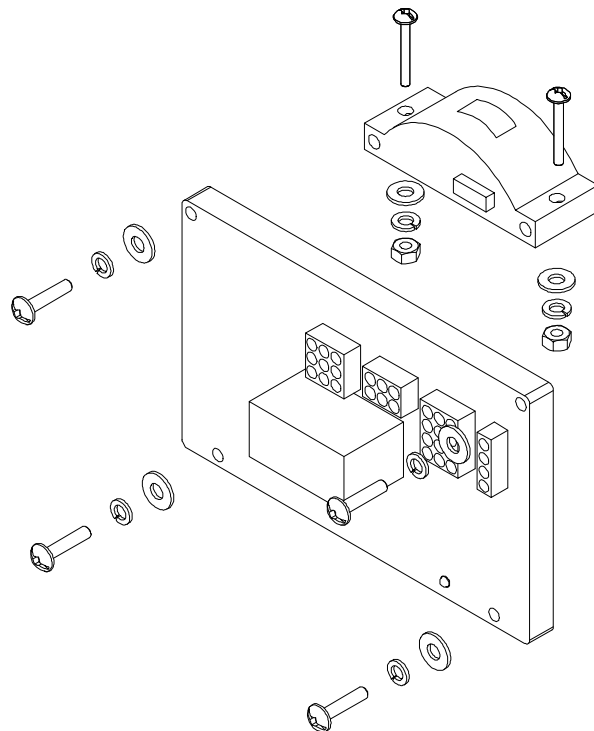


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WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform



WARNING

Read all instructions closely before attempting each step of the installation.

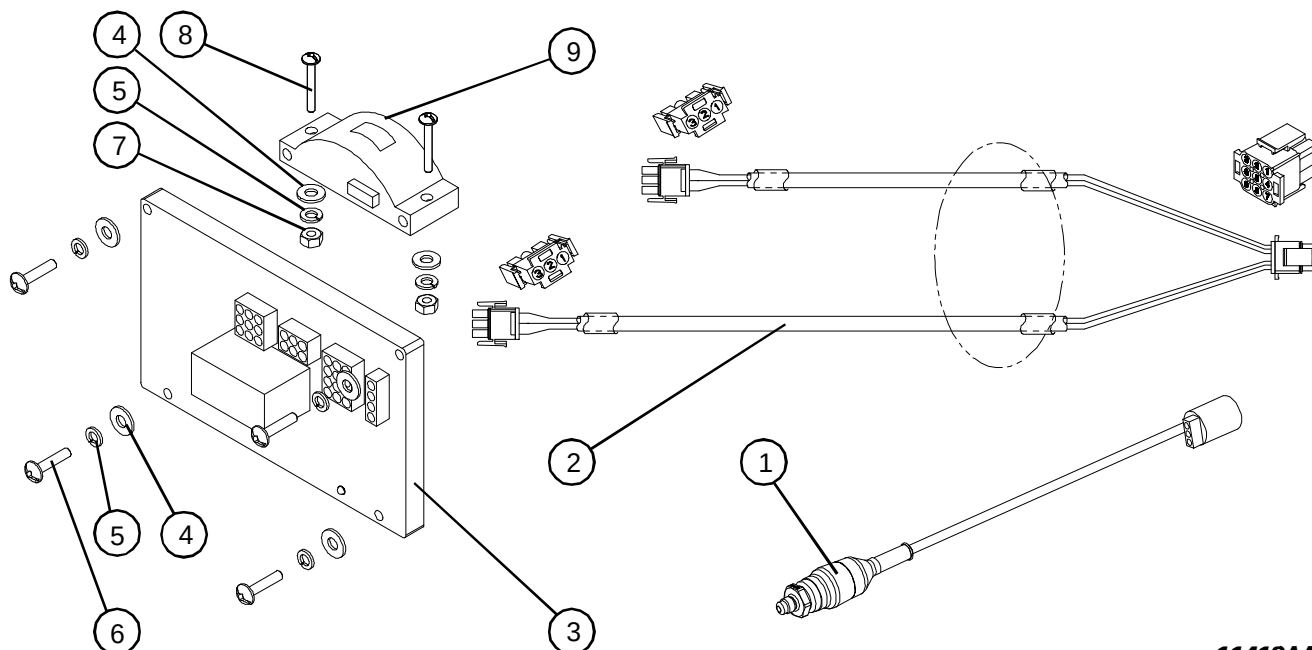
Table 1-1

Machine	Number of Extension Decks	Curve	Group Code	Serial Number
4620B	1 Manual Extension Deck	6	4	66486 & Above
4620B	1 Powered Extension Deck	7	4	66486 & Above
4620D	1 Manual Extension Deck	8	3	710008 & Above
4620D	1 Powered Extension Deck	9	3	710008 & Above
6826	1 Manual Extension Deck	16	5	
6826	1 Powered Extension Deck	17	5	
6832	1 Manual Extension Deck	20	6	
6832	1 Powered Extension Deck	21	6	

Parts Inventory

Note

If You Have Not Received The Complete Part Inventory, Contact SKYJACK SERVICE DEPARTMENT At (44) 1691-676 236 Or Fax (44) 1691-676 238 To Have The Missing Parts Sent To You. DO NOT Attempt Installation Without The Complete Package.



11419AA

Index No.	Skyjack Part No.	Qty.	Description
A	134467	1	KIT, Load Sensing Retrofit
1	134432	1	• TRANSDUCER, Pressure
2	134437	1	• HARNESS, Angle/Pressure Sensor
3	130439	1	• CONTROLLER MODULE, Overload Sensing
4	104694	6	• WASHER, Flat #10 S.A.E.
5	104185	6	• WASHER, Lock# 10 NOM.
6	105621	4	• SCREW, #10-32 x 1" Machine
7	104003	2	• NUT, #10-32 Gr. B Machine
8	122498	2	• SCREW, #10-32 x 1.25" Machine
9	130440	1	• TRANSDUCER, Angle
10	102891	24	• TIEWRAP, 7 1/4" Black
11	102893	12	• TIEWRAP, 13 3/4" Black
12	134485	1	• JUMPER, Insulated Alligator Clip
13	134479	1	• RETROFIT PROCEDURE

Important

In order to comply with the warranty, replaced parts MUST be sent back to Skyjack Parts Department:

**Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry,
Shropshire, U.K**

Control Module Replacement Procedure:

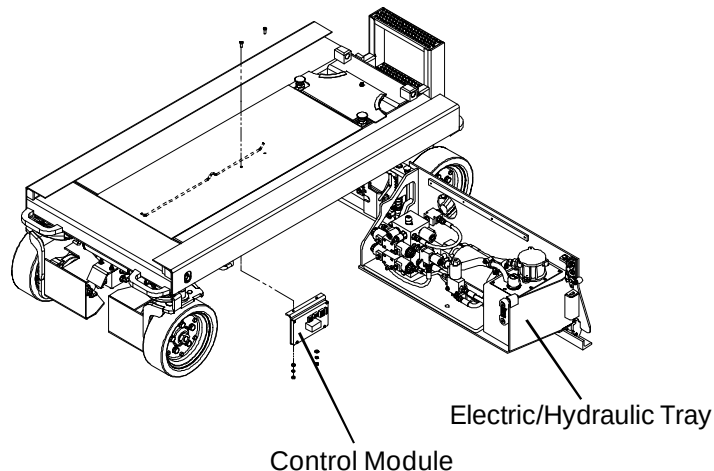


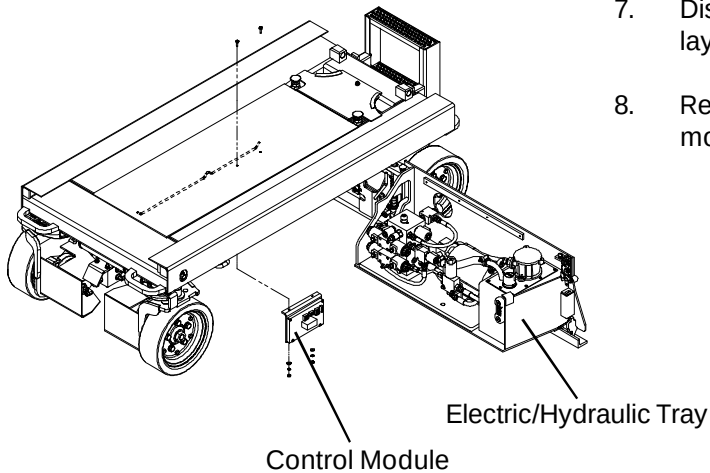
Only trained and authorized personnel shall be permitted to service an aerial platform.



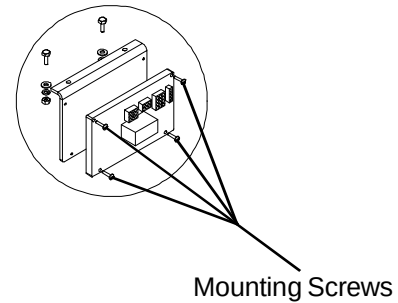
Read all instructions closely before attempting each step of the installation.

1. Ensure the machine is parked on a level surface.
2. Pull out emergency stops and turn the main disconnect to the ON position.
3. Elevate the platform and place the maintenance support bar into position then lower the scissor onto the maintenance support bar.
4. Push in emergency stops and turn the main disconnect to the OFF position. Lock the switch to prevent unauthorized use during this procedure.
5. Locate the hydraulic/electric tray open the tray.
6. Locate the control module under the machine.



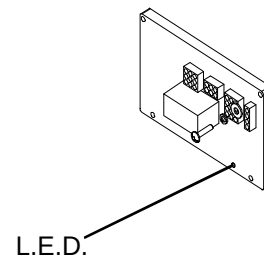


7. Disconnect all connectors from the control module and lay them aside.
8. Remove the 4 mounting screws that hold the control module in place.

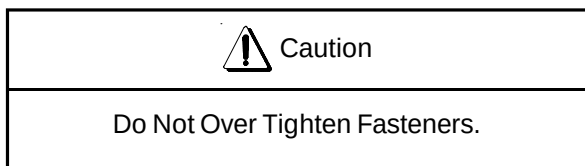


9. Replace the existing control module, part number 130439AB with the new control module part number 130439AC.

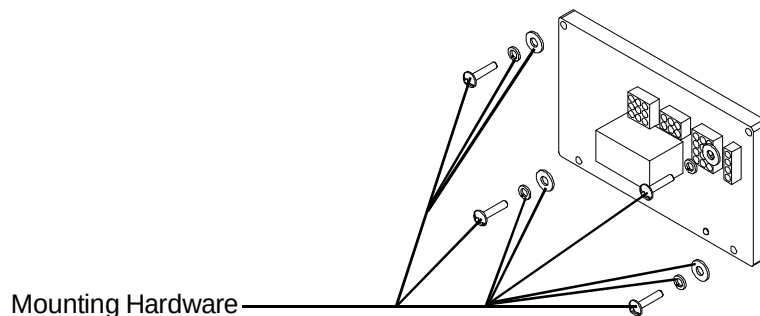
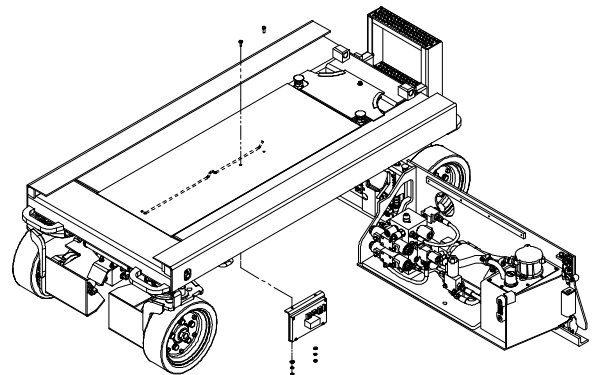
Note
130439AC is also identifiable by the presence of a red (L.E.D.).



10. Make sure the control module is facing the electric/hydraulic tray.
11. Mount the new control module using the hardware provided in the kit.
12. Make sure to use a screw, flat washer and lock washer.

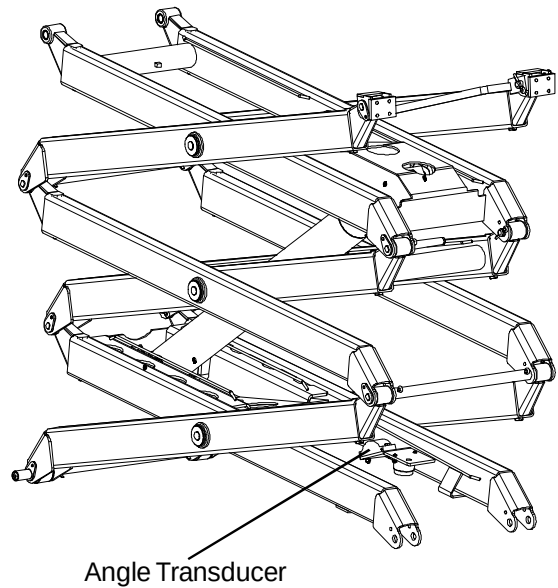
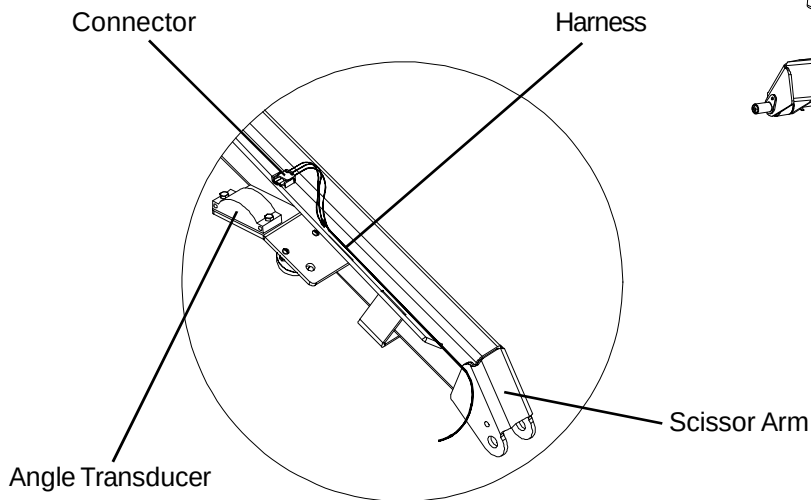


13. Tighten the screw until the lock washer flattens.



Angle Transducer Replacement Procedure:

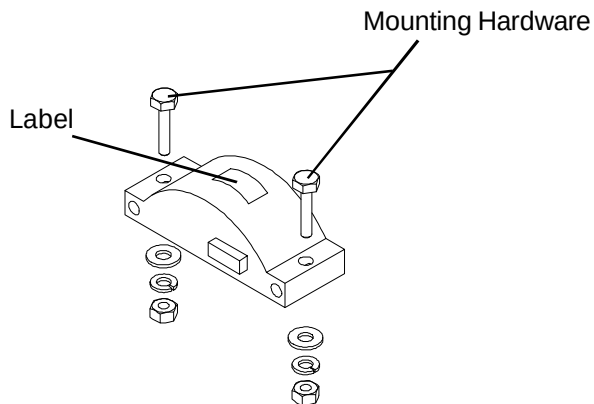
1. Locate the angle transducer. It is located at the first level scissor arm.
2. Disconnect the harness connector from the transducer and lay it aside.
3. Remove the two bolts holding the transducer on the scissor arm.



4. Replace the existing transducer, with the new transducer, part number 130440AB.

Note

The new transducer, part number 130440AB is also identifiable by the presence of a label on top of the transducer.



5. Mount the new transducer using the hardware provided in the kit.
6. Make sure to use a bolt, flat washer, lock washer and a nut.



Caution

Do Not Over Tighten Fasteners.

7. Tighten the bolt until the lock washer flattens.

Harness/Pressure Transducer Replacement Procedure:

1. Locate the pressure transducer. It is located on the block manifold at the bottom of the lower cylinder.
2. Disconnect the harness connector from the pressure transducer and lay it aside.
3. Replace the existing pressure transducer with the new pressure transducer, part number **134432AA**. The torque spec for an o-ring seal pressure transducer is 18-20 Nm.

Note

In some models, for easy access to the pressure transducer, the holding valve coil has to be removed, set aside and reinstalled once the new pressure transducer has been attached.

Note

The new pressure transducer, part number **134432AA** is also identifiable by the presence of a short harness and a connector attached to the pressure transducer.

4. Remove the existing harness from pressure transducer and angle transducer to control module by cutting all the tie wraps.
5. Attach the new harness in place of the existing harness and insert all the connectors into their corresponding slots.

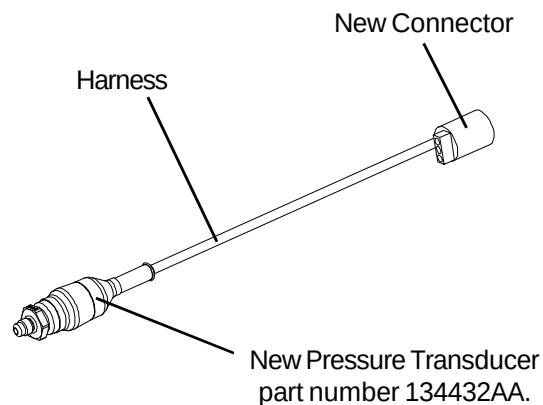
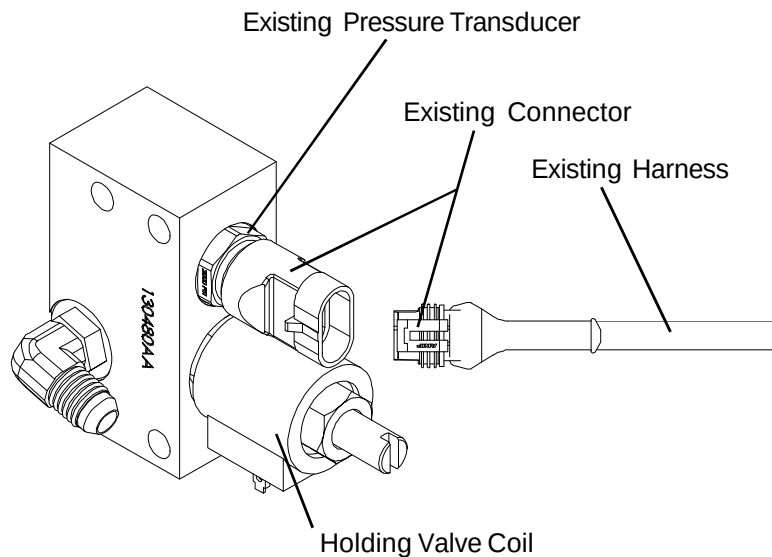




Figure 1. Locked Position

Note
The plug has to be secured tightly to the socket by pressing it all the way down and ensuring that the two locking latches snap onto the two locking tabs in the socket.
Confirm that it is locked by trying to pull the plug out from the socket.



Figure 2. Unlocked Position

6. Reinstall any cables that had been disconnected during this procedure.
7. Use tie wraps as required to secure the new harness.
8. Make sure all connections are tight and the harness is properly secured.

Important
The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department. Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

9. Pull out emergency stops and turn the main disconnect to the ON position.
10. Elevate the aerial platform and place the maintenance support bar into its rest position.
11. Lower the aerial platform fully.
12. Follow the module calibration procedure on the following pages.

Calibration Procedure:



WARNING

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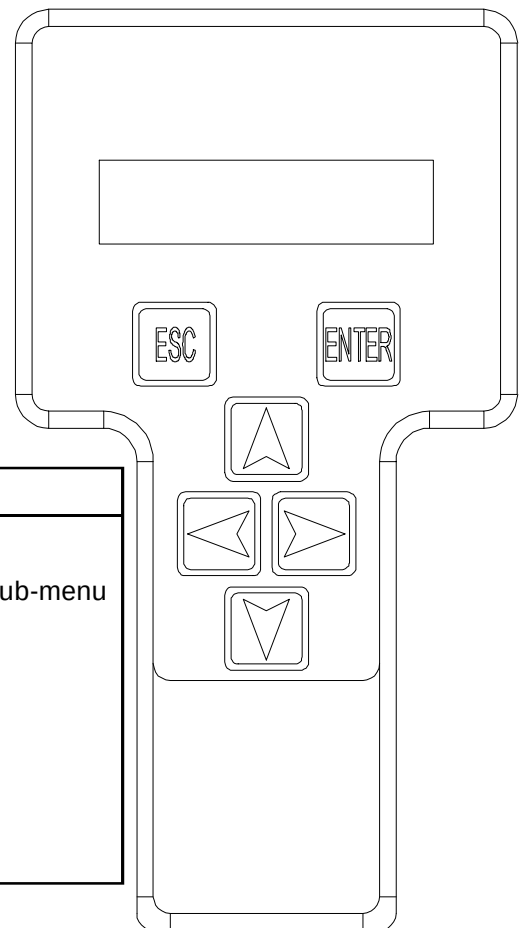


WARNING

Read all instructions closely before attempting each phase of this Procedure.

The following equipment is needed to complete this procedure.

- Easy-Cal Hand Held Calibration/Diagnostic Tool
- JUMPER, Insulated Alligator Clip



SYMBOL	KEY FUNCTIONS
 	ESC/ENTER BUTTONS To move back and forth between menu and sub-menu
 	LEFT/RIGHT BUTTONS Select menus and setting to be adjusted
 	UP/DOWN BUTTONS Adjust setting values

1. Move the aerial platform to a test area where the platform can be elevated to its maximum working height and reach.
2. Ensure the aerial platform is parked on a firm, level surface.

IMPORTANT

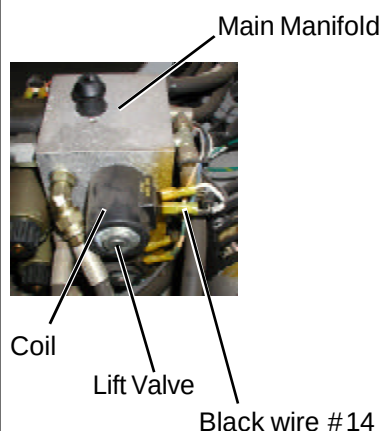
Each phase must be completed before the next phase can be carried out.
All phases must be completed before the aerial platform can be operated.

IMPORTANT

Always follow the instructions of the [Calibration](#) instrument.

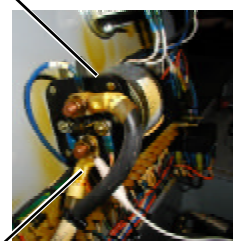
IMPORTANT

Make sure the aerial platform is on BASE mode.



3. Locate the main manifold inside the hydraulic/electric tray.
4. Disconnect the black wire #14 from the lift coil.
5. Locate the contactor on the electrical panel assembly.
6. The jumper connection must be connected between the contactor (wire #19B) and the lift coil (instead of the black wire #14).

Contactor

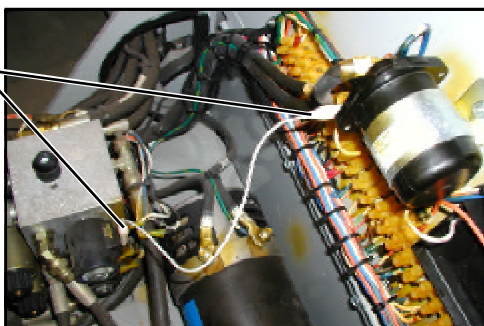


Wire #19B

Note

To ensure a good and clear contact,
clean the wire terminals before attaching
the jumper clip.

**JUMPER, Insulated
Alligator Clip**



7. Connect the Easy-Cal tool to the P1 connector on the CONTROL MODULE.
8. The display will show **"Help: Press Enter"**.
By using Left/Right buttons, select the "Access Level (?)" from the menu and press the **ENTER** button.

**Contact SKYJACK SERVICE DEPARTMENT At
(44) 1691-676 236 for your Access Level Code Number.**
9. The display will show **"Access Level Code (xxxx)"**.
By using the Up/Down buttons, enter the Access Level Code (xxxx) followed by pressing the **ENTER** button.
10. The display will show **"Access Level 2"**.
By using Left/Right buttons, select the **"Setups"** from the menu and press the **ENTER** button.
11. The display will show **"Machine Defaults"**.
Select the **"Machine Defaults"** from the menu and press the **ENTER** button.
12. The display will show **"Defaults, 0 = Custom"**.
By using Left/Right buttons, select the **"X = Group Code"** from the menu and press the **ENTER** button.
13. The display will show **"X=GROUP CODE"**. *(For group Code Refer to Table 1-1)*
By using the Up/Down buttons, enter the **"Group Code (?)"** then by using Left/Right buttons, select the **"Curve"** from the menu.
14. The display will show **"X=CURVE"**. *(For Curve Code Refer to Table 1-1)*
By using the Up/Down buttons, enter the **"Curve Code (?)"** followed by pressing the **ESCAPE** button.
15. The display will show **"Machine Defaults"**.
By using Left/Right buttons, select the **"Tilt Setups"** from the menu and press the **ENTER** button.
16. The display will show **"Tilt Setups: Calibrate Level"**.
Select the **"Tilt Setups: Calibrate Level"** from the menu and press the **ENTER** button.
17. The display will show **"Calibrate Level: Yes: Enter, No: ESC"**.
Select the **"Yes"** from the menu by press the **ENTER** button.
18. The display will show **"Calibrate Level: Tilt 0.0' , 0.0"**.
Select the **"ESCAPE"** from the menu once.
19. The display will show **"Tilt Setups Calibrate Level"**.
Select the **"ESCAPE"** from the menu once again.
20. The display will show **"Setups Tilt Setups"**.
By using Left/Right buttons, select the **"Load Setups"** from the menu and press the **ENTER** button.
21. The display will show **"Load Setups: Calibrate Load"**.
Select the **"Load Setups: Calibrate Load"** from the menu and press the **ENTER** button.
22. At this point, elevate the aerial platform to full height, check the harness and making sure it is not stretched too tight and then fully lower the platform.
23. The display will show **"Calibrate Load: Platform Down?"**.
Asking for confirmation that the platform is fully lowered?
Check that the platform is fully lowered then press the **ENTER** button to confirm.

24. The display will show **"Calibrate: Loaded Empty? No"**.
Asking for confirmation that the platform is empty?
Check that the platform is empty?
25. By using the Up/Down buttons, enter the **"Yes"** followed by pressing the **ENTER** button.
26. The display will show **"Calibrate Load: Please Lift . . ."**.
Waiting for the lift switch to be activated.
27. Hold the lift switch and keep holding it until the platform is fully elevated.

IMPORTANT

If the lift switch is released earlier than full-height position, the calibration will have to be aborted and repeated from the beginning!
--

28. When the system detects the lift switch closed, the display will show **"Calibrate Load: Lift Empty"**.
29. After a delay, the system will stop the platform lifting and will take height & pressure measurements; the display will show **"MEASURING # xx"** When the measurements have been taken, the platform will resume lifting.

Note

The lifting ... stopping ... measuring ... lifting process will continue until the platform reaches full height.
--

30. When the platform reaches full height release the lift switch.
31. The display will briefly show **"TOTAL DATA: 04"** to indicate the number of measurements taken.
32. The display will show **"Calibrate Load: Please Lower . . ."**.

IMPORTANT

If the lower switch is released earlier than full-lowered position, the calibration will have to be aborted and repeated from the beginning!
--

33. Hold the lower switch and keep holding it until the platform is fully lowered.
34. When the system detects the lower switch closed, the display will show **"Calibrate Load: Lower Empty"**.
35. After a delay, the system will stop the platform lowering and will take height & pressure measurements; the display will show **"MEASURING #xx"** When the measurements have been taken, the platform will resume lowering.

Note

The lowering ... stopping ... measuring ... lowering process will continue until the platform is fully lowered.

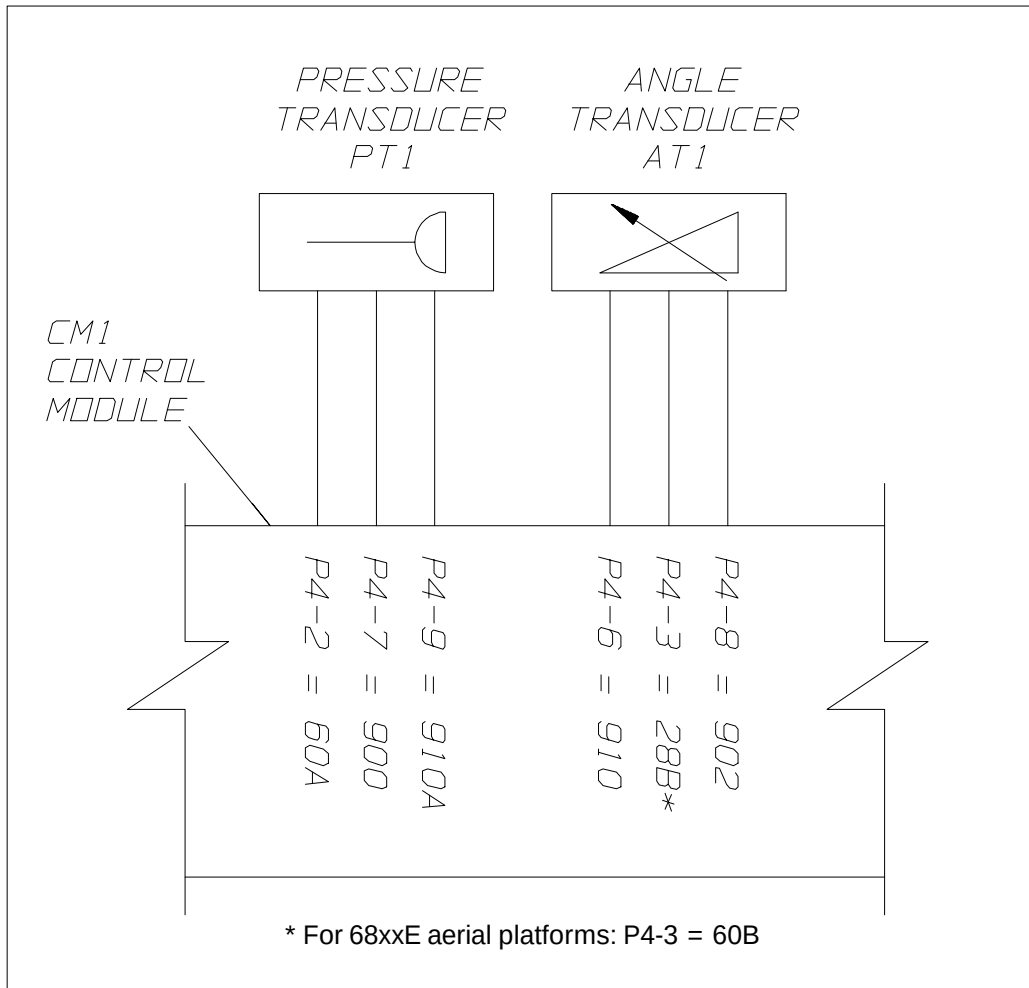
36. When the platform is fully lowered (and height 0% is displayed), release the lower switch.
37. The display will show briefly **"TOTAL DATA: 04"** to indicate the number of measurements taken.
38. The display will show **"Calibrate Load: Caldate: mm/dd/yy"**.
It is recommended that the current date be entered here to provide easy tracking of the date of last calibration. The current date must be entered using the LEFT/RIGHT and UP/DOWN buttons.
39. Press **ENTER** to complete date entry (the system will store it).
40. The display will show **"FINISHED!"**
41. Press the ESC button to exit the **"CALIBRATE LOAD"** option.
42. Remove the jumper wire and re-connect the black wire #14 to the coil removed earlier.
43. Close the hydraulic/electric tray.
44. The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department:

Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

IMPORTANT

Replaced parts **MUST** be sent back to Skyjack Parts Department in order to comply with the warranty.

Electrical Schematic



Note

For the latest schematic, please refer to the Skyjack web site: www.skyjackinc.com

Attach this schematic to the Load Sensing Operating Manual

Note

Attach this schematic to the Load Sensing Operating Manual



SJ-RT 7127/8831 Series

Load Sensing System Retrofit Procedure

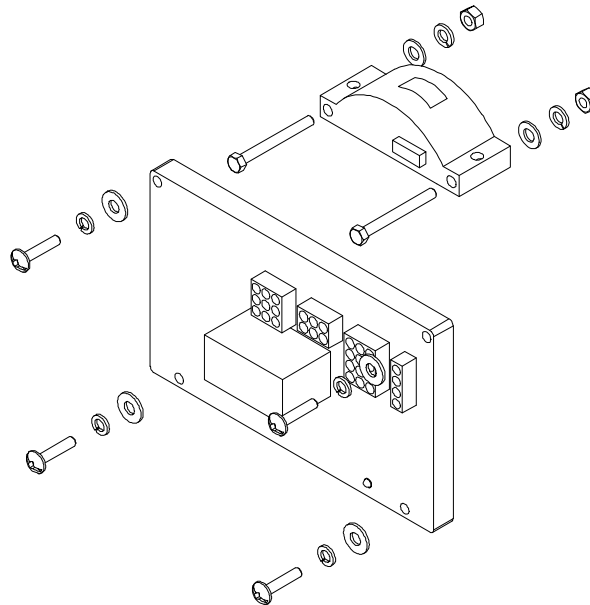


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Only trained and authorized personnel shall be permitted to service an aerial platform



Read all instructions closely before attempting each step of the installation.

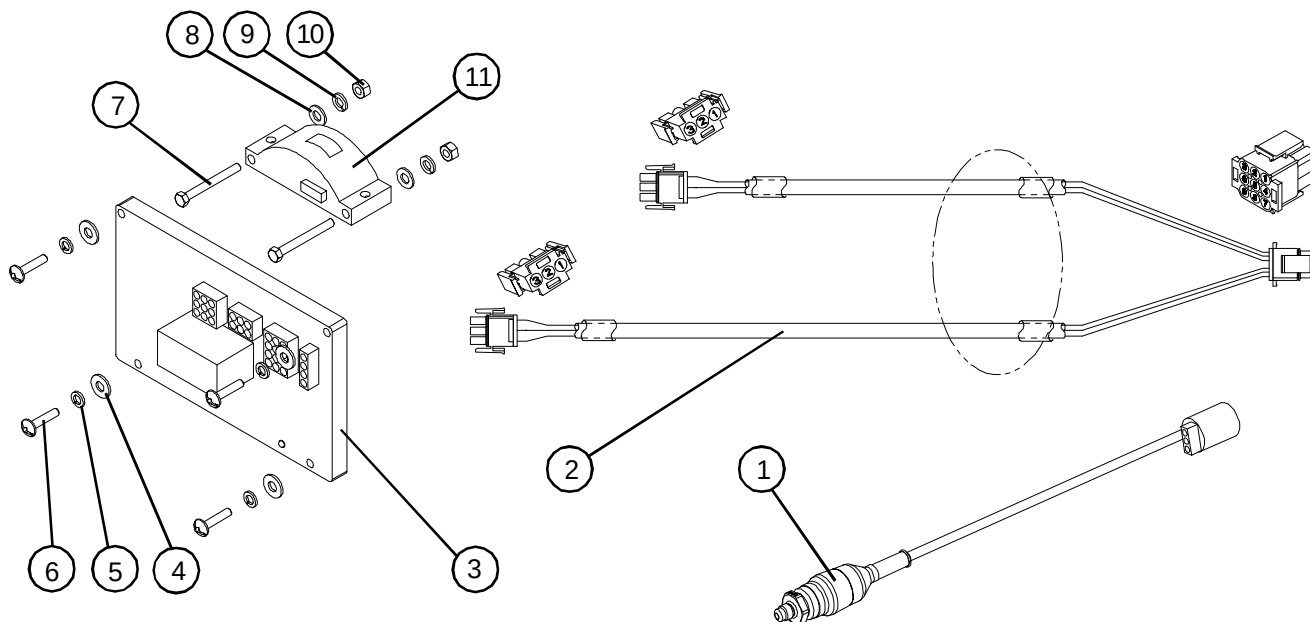
Table 1-1

Machine	Number of Extension Decks	Curve	Group Code
7027/7127	1 Manual Extension Deck	24	7
7027/7127	1 Powered Extension Deck	25	7
8831	No Extension Deck	30	9
8831	1 Manual Extension Deck	31	9
8831	1 Powered Extension Deck	32	9
8831	2 Manual Extension Decks	33	9
8831	2 Powered Extension Decks	34	9

Parts Inventory

Note

If You Have Not Received The Complete Part Inventory, Contact SKYJACK SERVICE DEPARTMENT At (44) 1691-676 236 Or Fax (44) 1691-676 238 To Have The Missing Parts Sent To You. DO NOT Attempt Installation Without The Complete Package.



11417AA

Index No.	Skyjack Part No.	Qty.	Description
A	134468	1	KIT, Load Sensing Retrofit
1	134431	1	• TRANSDUCER, Pressure
2	134438	1	• HARNESS, Angle/Pressure Sensor
3	130439	1	• CONTROLLER MODULE, Overload Sensing
4	104694	4	• WASHER, Flat #10 S.A.E.
5	104185	4	• WASHER, Lock# 10 NOM.
6	105621	4	• SCREW, #10-32 x 1" Machine
7	103862	2	• BOLT, 0.25" - 20 x 2.25 GR. 5
8	103995	2	• WASHER, Flat 0.25" S.A.E.
9	104000	2	• WASHER, Lock 0.25"
10	103980	2	• NUT, 0.25" - 20 GR. 5
11	130440	1	• TRANSDUCER, Angle
12	102891	12	• TIEWRAP, 7 1/4" Black
13	102893	24	• TIEWRAP, 13 3/4" Black
14	134480	1	• RETROFIT PROCEDURE

Important

In order to comply with the warranty, replaced parts MUST be sent back to Skyjack Parts Department:

**Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry,
Shropshire, U.K**

Control Module Replacement Procedure:



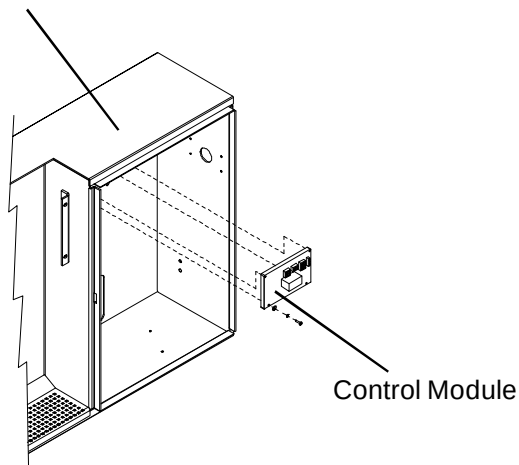
Only trained and authorized personnel shall be permitted to service an aerial platform.



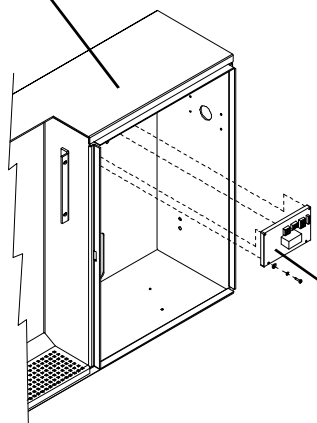
Read all instructions closely before attempting each step of the installation.

1. Ensure the aerial platform is parked on a level surface.
2. Pull out emergency stops and turn the main disconnect to the ON position.
3. Elevate the platform and place the maintenance support bar into position then lower the scissor onto the maintenance support bar.
4. Push in emergency stops and turn the main disconnect to the OFF position. Lock the switch to prevent unauthorized use during this procedure.
5. Locate the hydraulic/electric side cabinet open the cabinet door.
6. Locate the control module inside the cabinet.

Electric/Hydraulic cabinet



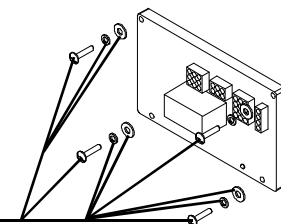
Electric/Hydraulic cabinet



Control Module

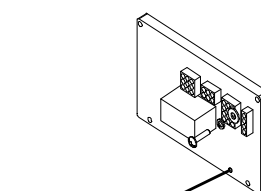
7. Disconnect all connectors from the control module and lay them aside.
8. Remove the 4 mounting screws that hold the control module in place.

Mounting Hardware



9. Replace the existing control module, part number 130439AB with the new control module part number 130439AC.

Note
130439AC is also identifiable by the presence of a red (L.E.D.).



L.E.D.

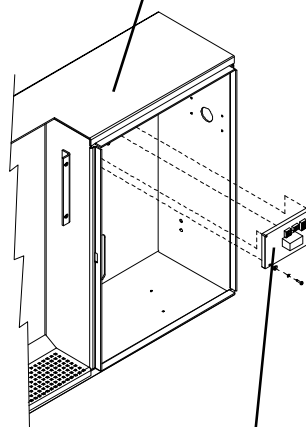
10. Mount the new control module using the hardware provided in the kit.
11. Make sure to use a screw, flat washer and lock washer.



Caution

Do Not Over Tighten Fasteners.

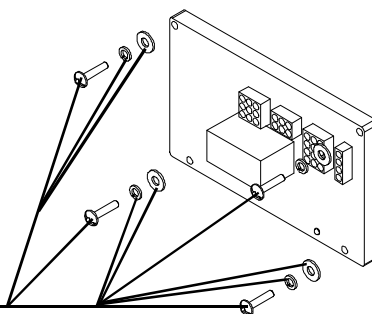
Electric/Hydraulic cabinet



Control Module

12. Tighten the screw until the lock washer flattens.

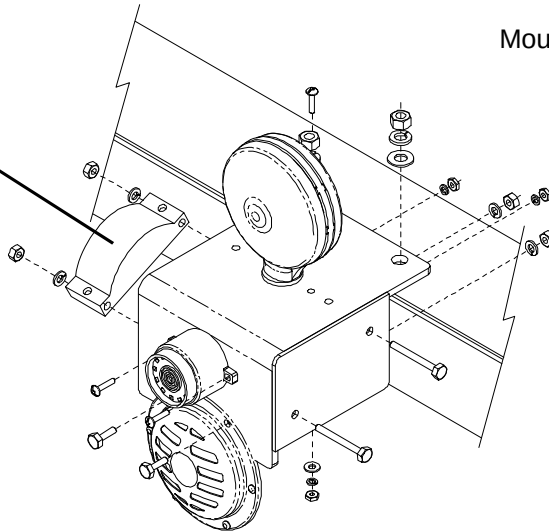
Mounting Hardware



Angle Transducer Replacement Procedure:

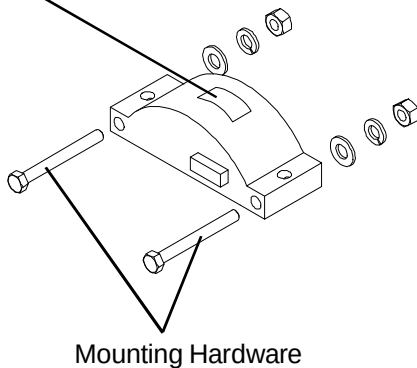
1. Locate the angle transducer. It is located at the first level scissor arm.
2. Disconnect the harness connector from the transducer and lay it aside.
3. Remove the two bolts holding the transducer on the scissor arm.

Angle Transducer



Mounting Hardware

Label



Mounting Hardware

4. Replace the existing transducer, with the new transducer, part number **130440AB**.

Note

The new transducer, part number 130440AB is also identifiable by the presence of a label on top of the transducer.

5. Mount the new transducer using the hardware provided in the kit.
6. Make sure to use a bolt, flat washer, lock washer and a nut.



Caution

Do Not Over Tighten Fasteners.

7. Tighten the bolt until the lock washer flattens.

Harness/Pressure Transducer Replacement Procedure:

1. Locate the pressure transducer. It is located on the block manifold at the bottom of the **lower** cylinder.
2. Disconnect the harness connector from the pressure transducer and lay it aside.
3. Replace the existing pressure transducer with the new pressure transducer, part number 134431AA. **The torque spec for an o-ring seal pressure transducer is 18-20 Nm.**

Note

The new pressure transducer, part number 134431AA is also identifiable by the presence of a short harness and a connector attached to the pressure transducer.

4. Remove the existing harness from pressure transducer and angle transducer to control module by cutting all the tie wraps.
5. Attach the new harness in place of the existing harness and insert all the connectors into the their corresponding slots.
6. Use tie wraps as required to secure the new harness.

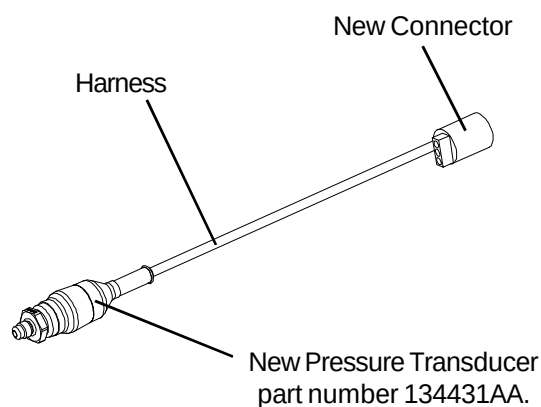
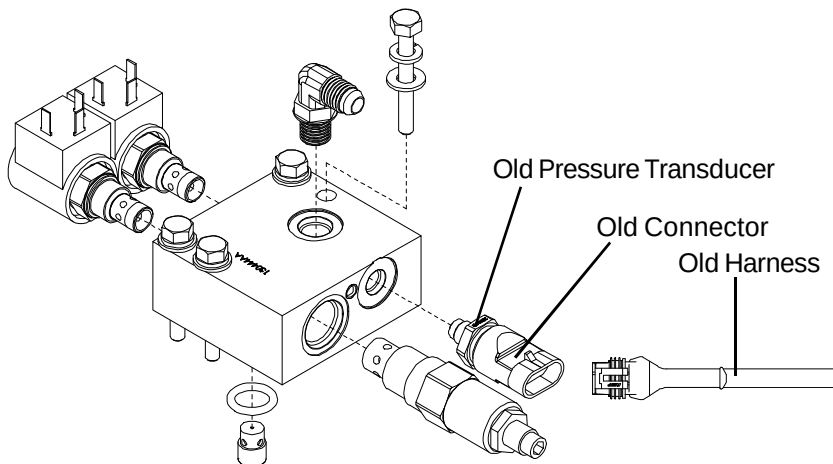


Figure 1. Locked Position

Note
The plug has to be secured tightly to the socket by pressing it all the way down and ensuring that the two locking latches snap onto the two locking tabs in the socket.
Confirm that it is locked by trying to pull the plug out from the socket.



Figure 2. Unlocked Position

7. Make sure all connections are tight and the harness is properly secured.

Important
The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department.
Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

8. Pull out emergency stops and turn the main disconnect to the ON position.
9. Elevate the platform and place the maintenance support bar into its rest position.
10. Lower the platform fully.
11. Follow the module calibration procedure on the following pages.

Calibration Procedure:



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.

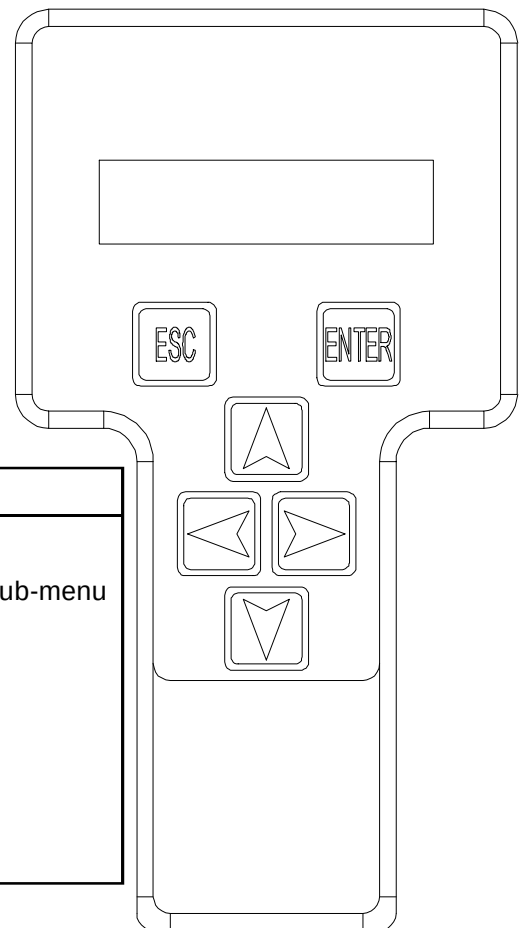


WARNING

Read all instructions closely before attempting each phase of this Procedure.

The following equipment is needed to complete this procedure.

- Easy-Cal Hand Held Calibration/Diagnostic Tool



SYMBOL	KEY FUNCTIONS
 	ESC/ENTER BUTTONS To move back and forth between menu and sub-menu
 	LEFT/RIGHT BUTTONS Select menus and setting to be adjusted
 	UP/DOWN BUTTONS Adjust setting values

1. Move the aerial platform to a test area where the platform can be elevated to its maximum working height and reach.
2. Ensure the aerial platform is parked on a firm, level surface.

IMPORTANT

Each phase must be completed before the next phase can be carried out.
All phases must be completed before the aerial platform can be operated.

IMPORTANT

Always follow the instructions of the [Calibration](#) instrument.

IMPORTANT

Make sure the aerial platform is on BASE mode.

3. Connect the Easy-Cal tool to the P1 connector on the CONTROL MODULE.
4. **The display will show "Help: Press Enter".**
By using Left/Right buttons, select the "Access Level (?)" from the menu and press the **ENTER** button.

**Contact SKYJACK SERVICE DEPARTMENT At
(44) 1691-676 236 for your Access Level Code Number.**

5. **The display will show "Access Level Code (xxxx)".**
By using the Up/Down buttons, enter the Access Level Code (xxxx) followed by pressing the **ENTER** button.
6. **The display will show "Access Level 2".**
By using Left/Right buttons, select the **"Setups"** from the menu and press the **ENTER** button.
7. **The display will show "Machine Defaults".**
Select the **"Machine Defaults"** from the menu and press the **ENTER** button.
8. **The display will show "Defaults, 0 = Custom".**
By using Left/Right buttons, select the **"X = Group Code"** from the menu and press the **ENTER** button.
9. **The display will show "X=GROUP CODE". (For group Code Refer to Table 1-1)**
By using the Up/Down buttons, enter the **"Group Code (?)"** then by using Left/Right buttons, select the **"Curve"** from the menu.
10. **The display will show "X=CURVE". (For Curve Code Refer to Table 1-1)**
By using the Up/Down buttons, enter the **"Curve Code (?)"** followed by pressing the **ESCAPE** button.
11. **The display will show "Machine Defaults".**
By using Left/Right buttons, select the **"Tilt Setups"** from the menu and press the **ENTER** button.

12. **The display will show "Tilt Setups: Calibrate Level".**
Select the **"Tilt Setups: Calibrate Level"** from the menu and press the **ENTER** button.
13. **The display will show "Calibrate Level: Yes: Enter, No: ESC".**
Select the **"Yes"** from the menu by press the **ENTER** button.
14. **The display will show "Calibrate Level: Tilt 0.0' , 0.0".**
Select the **"ESCAPE"** from the menu once.
15. **The display will show "Tilt Setups Calibrate Level".**
Select the **"ESCAPE"** from the menu once again.
16. **The display will show "Setups Tilt Setups".**
By using Left/Right buttons, select the **"Load Setups"** from the menu and press the **ENTER** button.
17. **The display will show "Load Setups: Calibrate Load".**
Select the **"Load Setups: Calibrate Load"** from the menu and press the **ENTER** button.
18. At this point, elevate the platform to full height, check the harness and making sure it is not stretched too tight and then fully lower the platform.
19. **The display will show "Calibrate Load: Platform Down?".**
Asking for confirmation that the platform is fully lowered?
Check that the platform is fully lowered then press the **ENTER** button to confirm.
20. **The display will show "Calibrate: Loaded Empty? No".**
Asking for confirmation that the platform is empty?
Check that the platform is empty?
21. By using the Up/Down buttons, enter the **"Yes"** followed by pressing the **ENTER** button.
22. **The display will show "Calibrate Load: Please Lift . . .".**
Waiting for the lift switch to be activated.
23. Hold the lift switch and keep holding it until the platform is fully elevated.

IMPORTANT

If the lift switch is released earlier than full-height position, the calibration will have to be aborted and repeated from the beginning!

24. When the system detects the lift switch closed, the display will show **"Calibrate Load: Lift Empty"**.
25. After a delay, the system will stop the platform lifting and will take height & pressure measurements; the display will show **"MEASURING # xx"** When the measurements have been taken, the platform will resume lifting.

Note

The lifting ... stopping ... measuring ... lifting process will continue until the platform reaches full height.

26. When the platform reaches full height release the lift switch.
27. The display will briefly show **"TOTAL DATA: 04"** to indicate the number of measurements taken.
28. The display will show **"Calibrate Load: Please Lower . . . "**.

IMPORTANT

If the lower switch is released earlier than full-lowered position, the calibration will have to be aborted and repeated from the beginning!
--

29. Hold the lower switch and keep holding it until the platform is fully lowered.
30. When the system detects the lower switch closed, the display will show **"Calibrate Load: Lower Empty"**.
31. After a delay, the system will stop the platform lowering and will take height & pressure measurements; the display will show **"MEASURING #xx"** When the measurements have been taken, the platform will resume lowering.

Note

The lowering ... stopping ... measuring ... lowering process will continue until the platform is fully lowered.

32. When the platform is fully lowered (and height 0% is displayed), release the lower switch.
33. The display will show briefly **"TOTAL DATA: 04"** to indicate the number of measurements taken.
34. The display will show **"Calibrate Load: Caldate: mm/dd/yy"**.
It is recommended that the current date be entered here to provide easy tracking of the date of last calibration. The current date must be entered using the LEFT/RIGHT and UP/DOWN buttons.
35. Press **ENTER** to complete date entry (the system will store it).
36. The display will show **"FINISHED!"**
37. Press the ESC button to exit the **"CALIBRATE LOAD"** option.
38. Close the hydraulic/electric cabinet.
39. The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department:

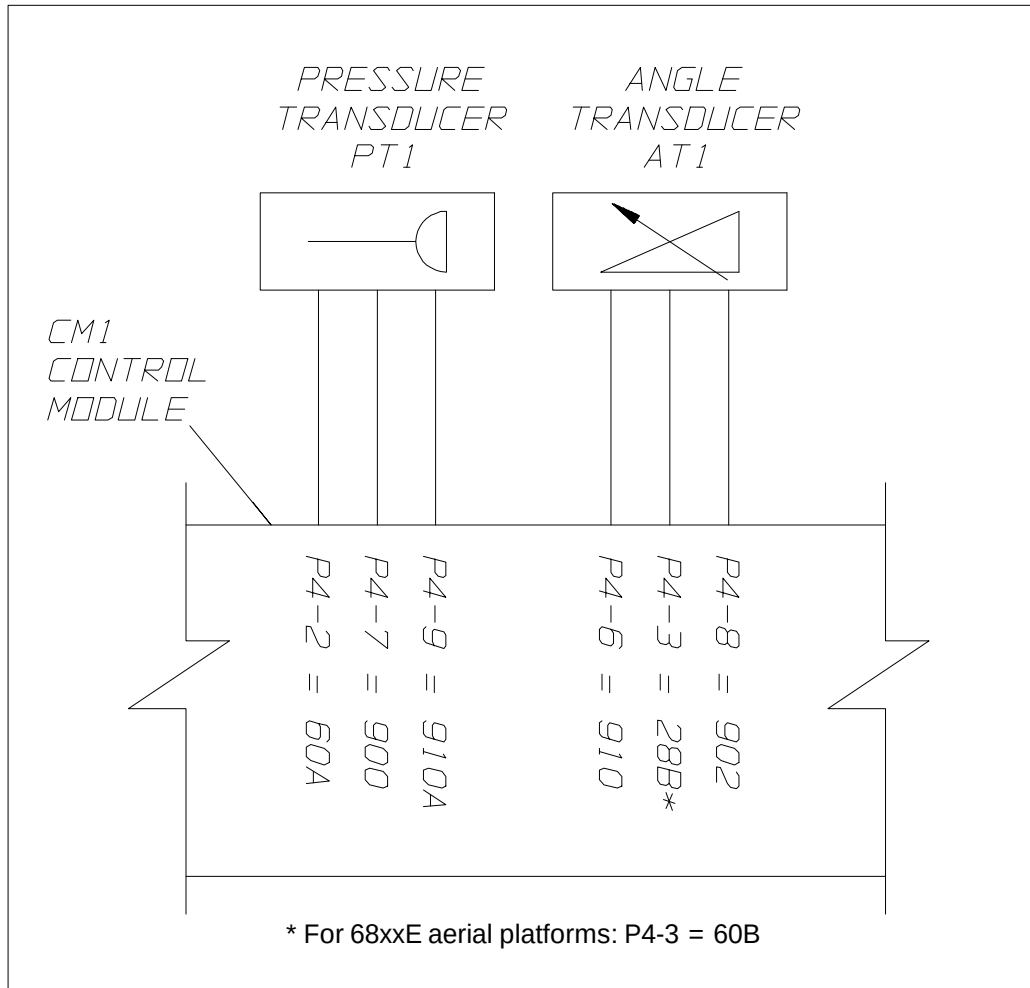
Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

IMPORTANT

Replaced parts MUST be sent back to Skyjack Parts Department in order to comply with the warranty.

Note

Electrical Schematic



Note

For the latest schematic, please refer to the Skyjack web site: www.skyjackinc.com

Note

Attach this schematic to the Load Sensing Operating Manual



SJ-RT 7135/8841 Series

Load Sensing System Retrofit Procedure

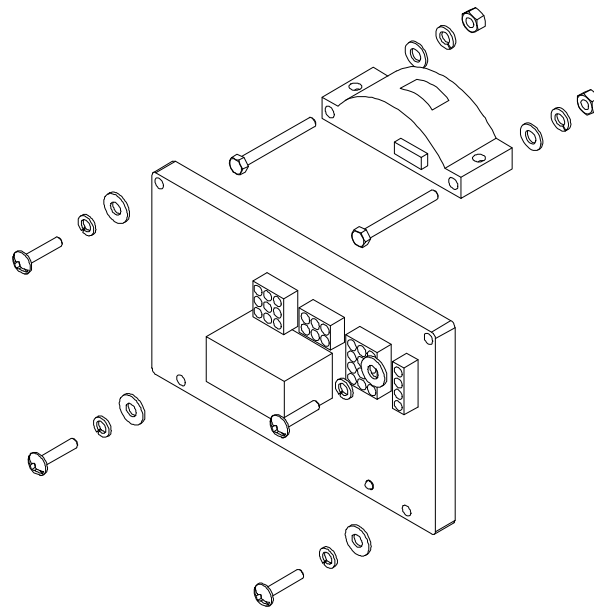


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Angle Transducer Replacement Procedure	7
Harness Replacement Procedure	8
Calibration Procedure	10
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WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform



WARNING

Read all instructions closely before attempting each step of the installation.

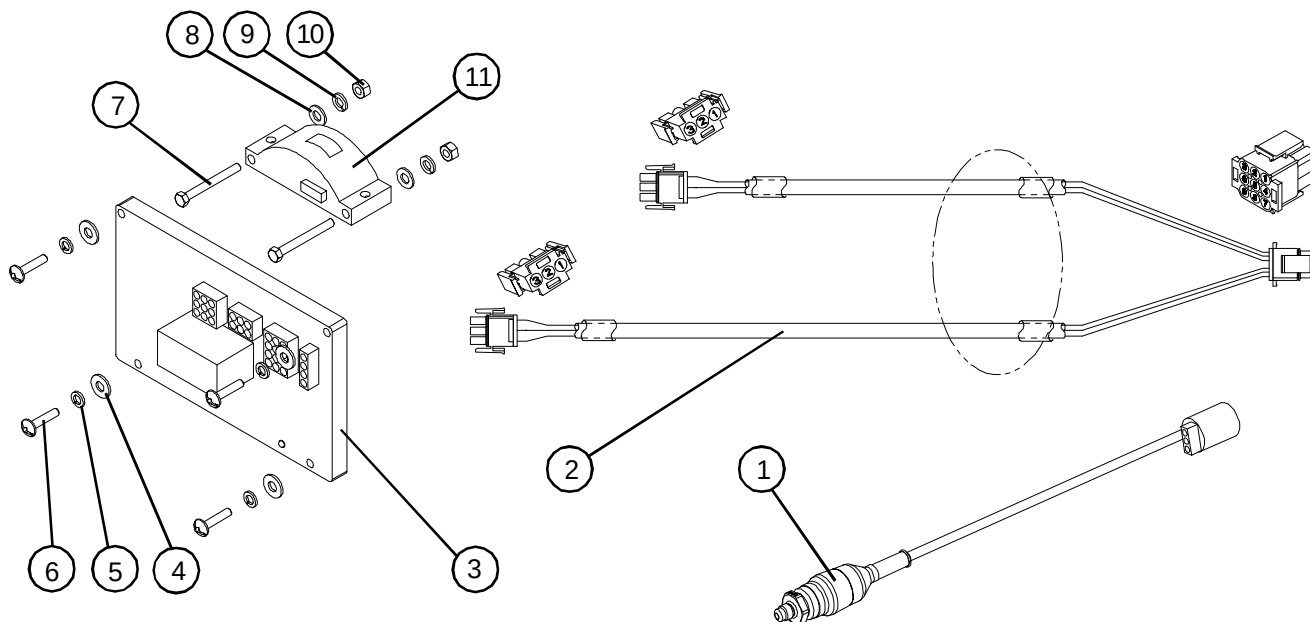
Table 1-1

Machine	Number of Extension Decks	Curve	Group Code
7135	1 Manual Extension Deck	26	7
7135	1 Powered Extension Deck	27	7
8841	No Extension Deck	40	10
8841	1 Manual Extension Deck	41	10
8841	1 Powered Extension Deck	42	10
8841	2 Manual Extension Decks	43	10
8841	2 Powered Extension Decks	44	10

Parts Inventory

Note

If You Have Not Received The Complete Part Inventory, Contact SKYJACK SERVICE DEPARTMENT At (44) 1691-676 236 Or Fax (44) 1691-676 238 To Have The Missing Parts Sent To You. DO NOT Attempt Installation Without The Complete Package.



11417AA

Index No.	Skyjack Part No.	Qty.	Description
A	134469	1	KIT, Load Sensing Retrofit
1	134432	1	• TRANSDUCER, Pressure
2	134438	1	• HARNESS, Angle/Pressure Sensor
3	130439	1	• CONTROLLER MODULE, Overload Sensing
4	104694	4	• WASHER, Flat #10 S.A.E.
5	104185	4	• WASHER, Lock# 10 NOM.
6	105621	4	• SCREW, #10-32 x 1" Machine
7	103862	2	• BOLT, 0.25" - 20 x 2.25 GR. 5
8	103995	2	• WASHER, Flat 0.25" S.A.E.
9	104000	2	• WASHER, Lock 0.25"
10	103980	2	• NUT, 0.25" - 20 GR. 5
11	130440	1	• TRANSDUCER, Angle
12	102891	12	• TIEWRAP, 7 1/4" Black
13	102893	24	• TIEWRAP, 13 3/4" Black
14	134481	1	• RETROFIT PROCEDURE

Important

In order to comply with the warranty, replaced parts MUST be sent back to Skyjack Parts Department:

**Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry,
Shropshire, U.K**

Control Module Replacement Procedure:



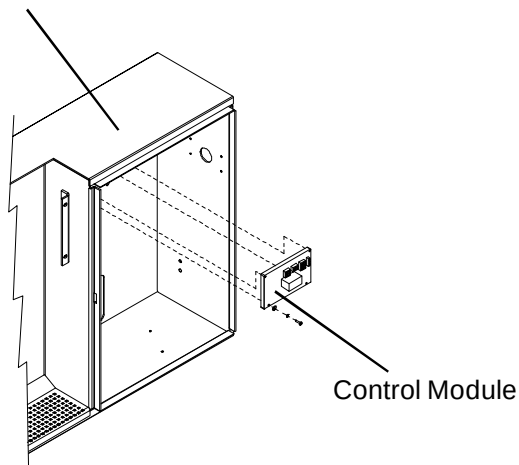
Only trained and authorized personnel shall be permitted to service an aerial platform



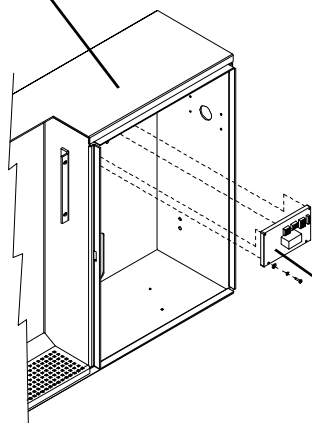
Read all instructions closely before attempting each step of the installation.

1. Ensure the aerial platform is parked on a level surface.
2. Pull out emergency stops and turn the main disconnect to the ON position.
3. Elevate the platform and place the maintenance support bar into position then lower the scissor onto the maintenance support bar.
4. Push in emergency stops and turn the main disconnect to the OFF position. Lock the switch to prevent unauthorized use during this procedure.
5. Locate the hydraulic/electric side cabinet open the cabinet door.
6. Locate the control module inside the cabinet.

Electric/Hydraulic cabinet



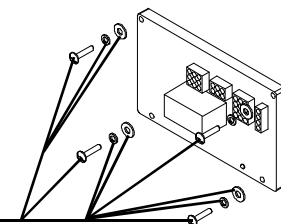
Electric/Hydraulic cabinet



Control Module

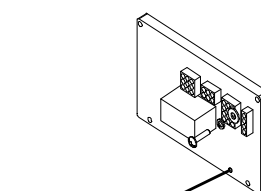
7. Disconnect all connectors from the control module and lay them aside.
8. Remove the 4 mounting screws that hold the control module in place.

Mounting Hardware



9. Replace the existing control module, part number 130439AB with the new control module part number 130439AC.

Note
130439AC is also identifiable by the presence of a red (L.E.D.).



L.E.D.

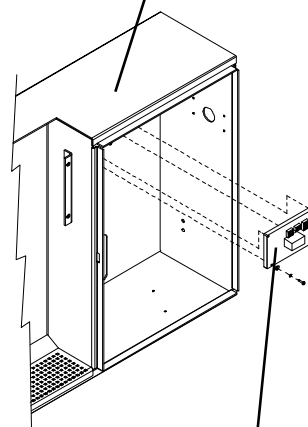
10. Mount the new control module using the hardware provided in the kit.
11. Make sure to use a screw, flat washer and lock washer.



Caution

Do Not Over Tighten Fasteners.

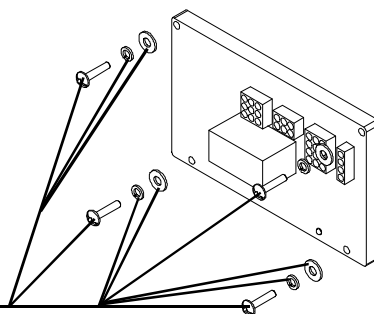
Electric/Hydraulic cabinet



Control Module

12. Tighten the screw until the lock washer flattens.

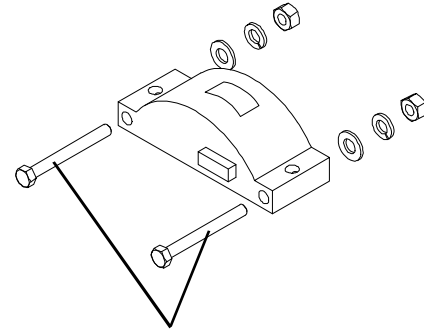
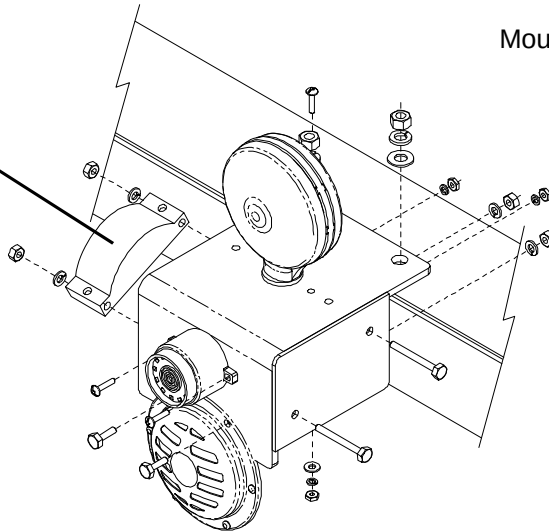
Mounting Hardware



Angle Transducer Replacement Procedure:

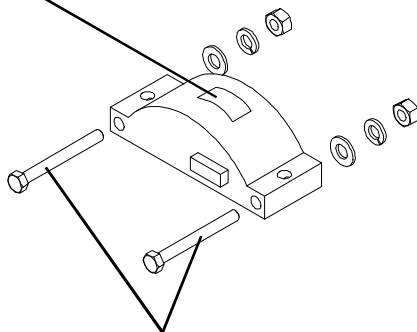
1. Locate the angle transducer. It is located at the first level scissor arm.
2. Disconnect the harness connector from the transducer and lay it aside.
3. Remove the two bolts holding the transducer on the scissor arm.

Angle Transducer



Mounting Hardware

Label



Mounting Hardware

4. Replace the existing transducer, with the new transducer, part number **130440AB**.

Note

The new transducer, part number 130440AB is also identifiable by the presence of a label on top of the transducer.

5. Mount the new transducer using the hardware provided in the kit.
6. Make sure to use a bolt, flat washer, lock washer and a nut.



Caution

Do Not Over Tighten Fasteners.

7. Tighten the bolt until the lock washer flattens.

Harness/Pressure Transducer Replacement Procedure:

1. Locate the pressure transducer. It is located on the block manifold at the bottom of the **lower** cylinder.
2. Disconnect the harness connector from the pressure transducer and lay it aside.
3. Replace the existing pressure transducer with the new pressure transducer, part number 134432AA. **The torque spec for an o-ring seal pressure transducer is 18-20 Nm.**

Note

The new pressure transducer, part number 134432AA is also identifiable by the presence of a short harness and a connector attached to the pressure transducer.

4. Remove the existing harness from pressure transducer and angle transducer to control module by cutting all the tie wraps.
5. Attach the new harness in place of the existing harness and insert all the connectors into their corresponding slots.
6. Use tie wraps as required to secure the new harness.

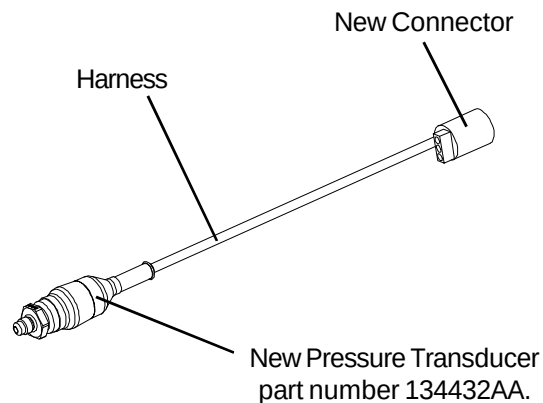
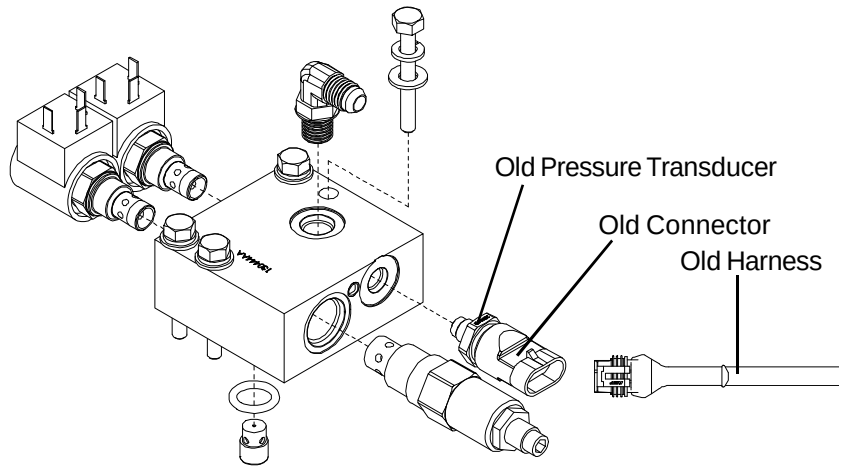


Figure 1. Locked Position

Note
The plug has to be secured tightly to the socket by pressing it all the way down and ensuring that the two locking latches snap onto the two locking tabs in the socket.
Confirm that it is locked by trying to pull the plug out from the socket.



Figure 2. Unlocked Position

7. Make sure all connections are tight and the harness is properly secured.

Important
The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department.
Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

8. Pull out emergency stops and turn the main disconnect to the ON position.
9. Elevate the platform and place the maintenance support bar into its rest position.
10. Lower the platform fully.
11. Follow the module calibration procedure on the following pages.

Calibration Procedure:



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.

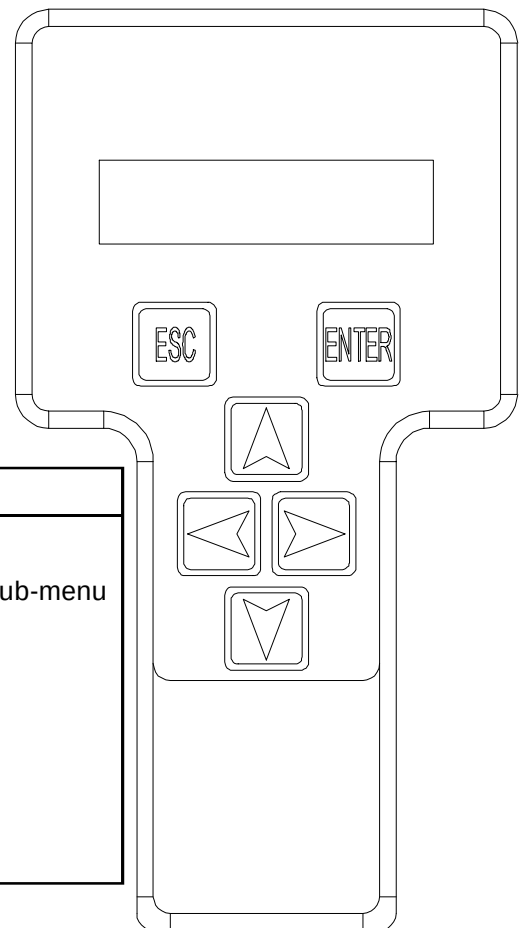


WARNING

Read all instructions closely before attempting each phase of this Procedure.

The following equipment is needed to complete this procedure.

- Easy-Cal Hand Held Calibration/Diagnostic Tool



SYMBOL	KEY FUNCTIONS
 	ESC/ENTER BUTTONS To move back and forth between menu and sub-menu
 	LEFT/RIGHT BUTTONS Select menus and setting to be adjusted
 	UP/DOWN BUTTONS Adjust setting values

1. Move the aerial platform to a test area where the platform can be elevated to its maximum working height and reach.
2. Ensure the aerial platform is parked on a firm, level surface.

IMPORTANT

Each phase must be completed before the next phase can be carried out.
All phases must be completed before the aerial platform can be operated.

IMPORTANT

Always follow the instructions of the [Calibration](#) instrument.

IMPORTANT

Make sure the aerial platform is on BASE mode.

3. Connect the Easy-Cal tool to the P1 connector on the CONTROL MODULE.
4. **The display will show "Help: Press Enter".**
By using Left/Right buttons, select the "Access Level (?)" from the menu and press the **ENTER** button.

**Contact SKYJACK SERVICE DEPARTMENT At
(44) 1691-676 236 for your Access Level Code Number.**

5. **The display will show "Access Level Code (xxxx)".**
By using the Up/Down buttons, enter the Access Level Code (xxxx) followed by pressing the **ENTER** button.
6. **The display will show "Access Level 2".**
By using Left/Right buttons, select the **"Setups"** from the menu and press the **ENTER** button.
7. **The display will show "Machine Defaults".**
Select the **"Machine Defaults"** from the menu and press the **ENTER** button.
8. **The display will show "Defaults, 0 = Custom".**
By using Left/Right buttons, select the **"X = Group Code"** from the menu and press the **ENTER** button.
9. **The display will show "X=GROUP CODE". (For group Code Refer to Table 1-1)**
By using the Up/Down buttons, enter the **"Group Code (?)"** then by using Left/Right buttons, select the **"Curve"** from the menu.
10. **The display will show "X=CURVE". (For Curve Code Refer to Table 1-1)**
By using the Up/Down buttons, enter the **"Curve Code (?)"** followed by pressing the **ESCAPE** button.
11. **The display will show "Machine Defaults".**
By using Left/Right buttons, select the **"Tilt Setups"** from the menu and press the **ENTER** button.

12. The display will show **"Tilt Setups: Calibrate Level"**.
Select the **"Tilt Setups: Calibrate Level"** from the menu and press the **ENTER** button.
13. The display will show **"Calibrate Level: Yes: Enter, No: ESC"**.
Select the **"Yes"** from the menu by press the **ENTER** button.
14. The display will show **"Calibrate Level: Tilt 0.0' , 0.0"**.
Select the **"ESCAPE"** from the menu once.
15. The display will show **"Tilt Setups Calibrate Level"**.
Select the **"ESCAPE"** from the menu once again.
16. The display will show **"Setups Tilt Setups"**.
By using Left/Right buttons, select the **"Load Setups"** from the menu and press the **ENTER** button.
17. The display will show **"Load Setups: Calibrate Load"**.
Select the **"Load Setups: Calibrate Load"** from the menu and press the **ENTER** button.
18. At this point, elevate the platform to full height, check the harness and making sure it is not stretched too tight and then fully lower the platform.
19. The display will show **"Calibrate Load: Platform Down?"**.
Asking for confirmation that the platform is fully lowered?
Check that the platform is fully lowered then press the **ENTER** button to confirm.
20. The display will show **"Calibrate: Loaded Empty? No"**.
Asking for confirmation that the platform is empty?
Check that the platform is empty?
21. By using the Up/Down buttons, enter the **"Yes"** followed by pressing the **ENTER** button.
22. The display will show **"Calibrate Load: Please Lift . . ."**.
Waiting for the lift switch to be activated.
23. Hold the lift switch and keep holding it until the platform is fully elevated.

IMPORTANT

If the lift switch is released earlier than full-height position, the calibration will have to be aborted and repeated from the beginning!

24. When the system detects the lift switch closed, the display will show **"Calibrate Load: Lift Empty"**.
25. After a delay, the system will stop the platform lifting and will take height & pressure measurements; the display will show **"MEASURING # xx"** When the measurements have been taken, the platform will resume lifting.

Note

The lifting ... stopping ... measuring ... lifting process will continue until the platform reaches full height.

26. When the platform reaches full height release the lift switch.
27. The display will briefly show **"TOTAL DATA: 04"** to indicate the number of measurements taken.
28. The display will show **"Calibrate Load: Please Lower . . . "**.

IMPORTANT
If the lower switch is released earlier than full-lowered position, the calibration will have to be aborted and repeated from the beginning!

29. Hold the lower switch and keep holding it until the platform is fully lowered.
30. When the system detects the lower switch closed, the display will show **"Calibrate Load: Lower Empty"**.
31. After a delay, the system will stop the platform lowering and will take height & pressure measurements; the display will show **"MEASURING #xx"** When the measurements have been taken, the platform will resume lowering.

Note
The lowering ... stopping ... measuring ... lowering process will continue until the platform is fully lowered.

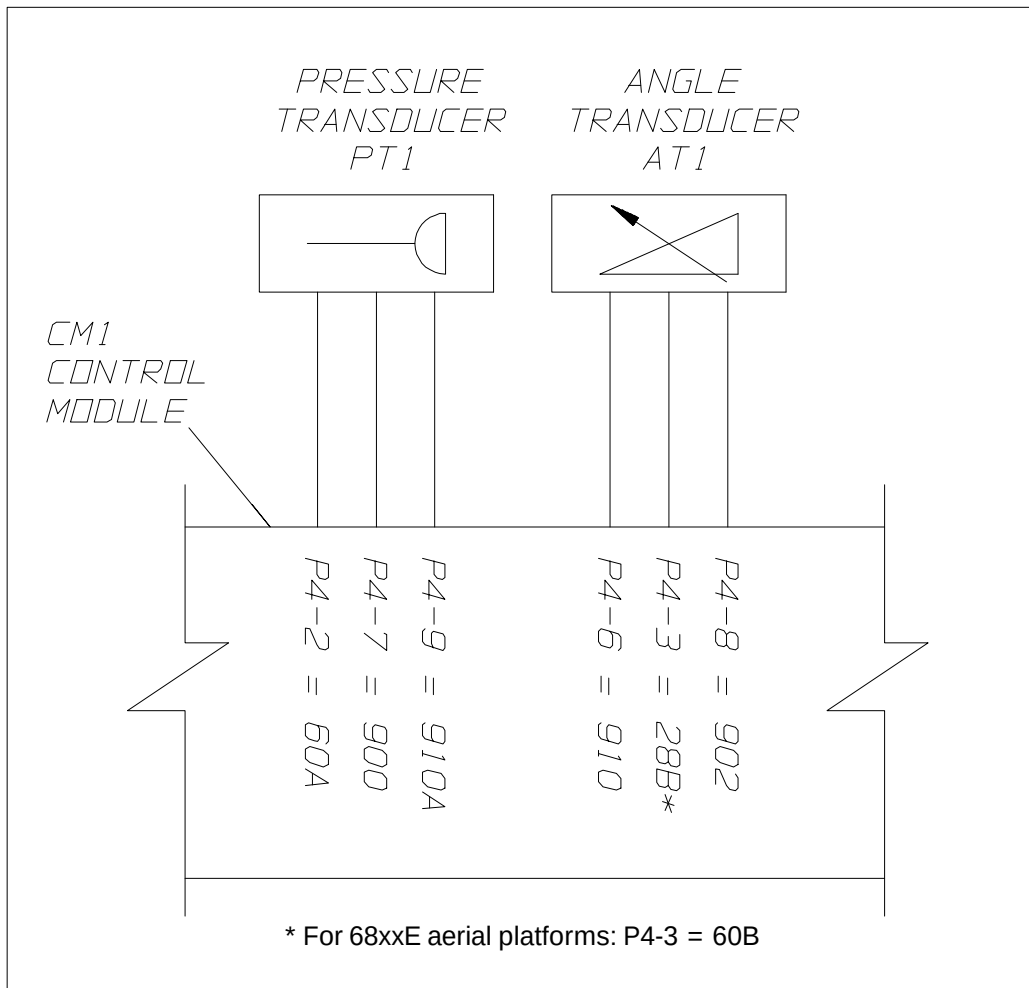
32. When the platform is fully lowered (and height 0% is displayed), release the lower switch.
33. The display will show briefly **"TOTAL DATA: 04"** to indicate the number of measurements taken.
34. The display will show **"Calibrate Load: Caldate: mm/dd/yy"**.
It is recommended that the current date be entered here to provide easy tracking of the date of last calibration. The current date must be entered using the LEFT/RIGHT and UP/DOWN buttons.
35. Press **ENTER** to complete date entry (the system will store it).
36. The display will show **"FINISHED!"**
37. Press the ESC button to exit the **"CALIBRATE LOAD"** option.
38. Close the hydraulic/electric cabinet.
39. The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department:

Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

IMPORTANT
Replaced parts MUST be sent back to Skyjack Parts Department in order to comply with the warranty.

Note

Electrical Schematic



Note

For the latest schematic, please refer to the Skyjack web site: www.skyjackinc.com

Attach this schematic to the Load Sensing Operating Manual

Note

Attach this schematic to the Load Sensing Operating Manual



SJ-III 6826E/6832E Series

Load Sensing System Retrofit Procedure

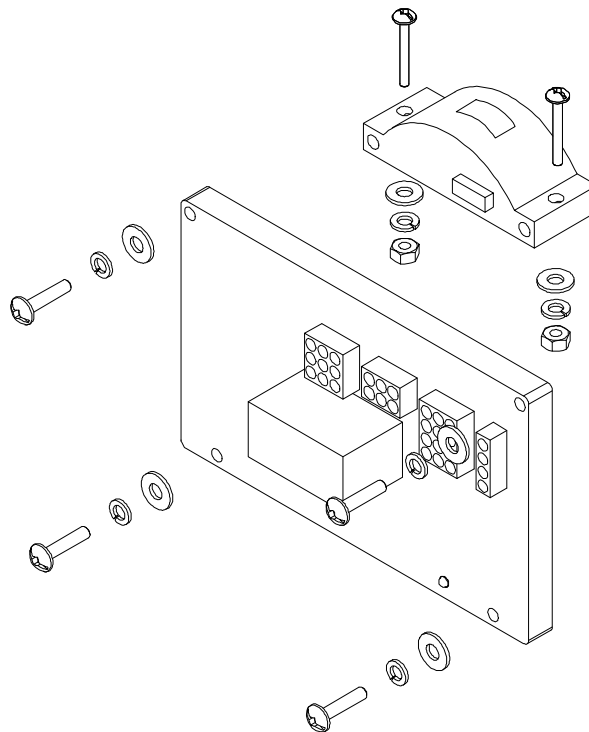


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Control Module Replacement Procedure	5
Angle Transducer Replacement Procedure	7
Harness Replacement Procedure	8
Calibration Procedure	10
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WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform



WARNING

Read all instructions closely before attempting each step of the installation.

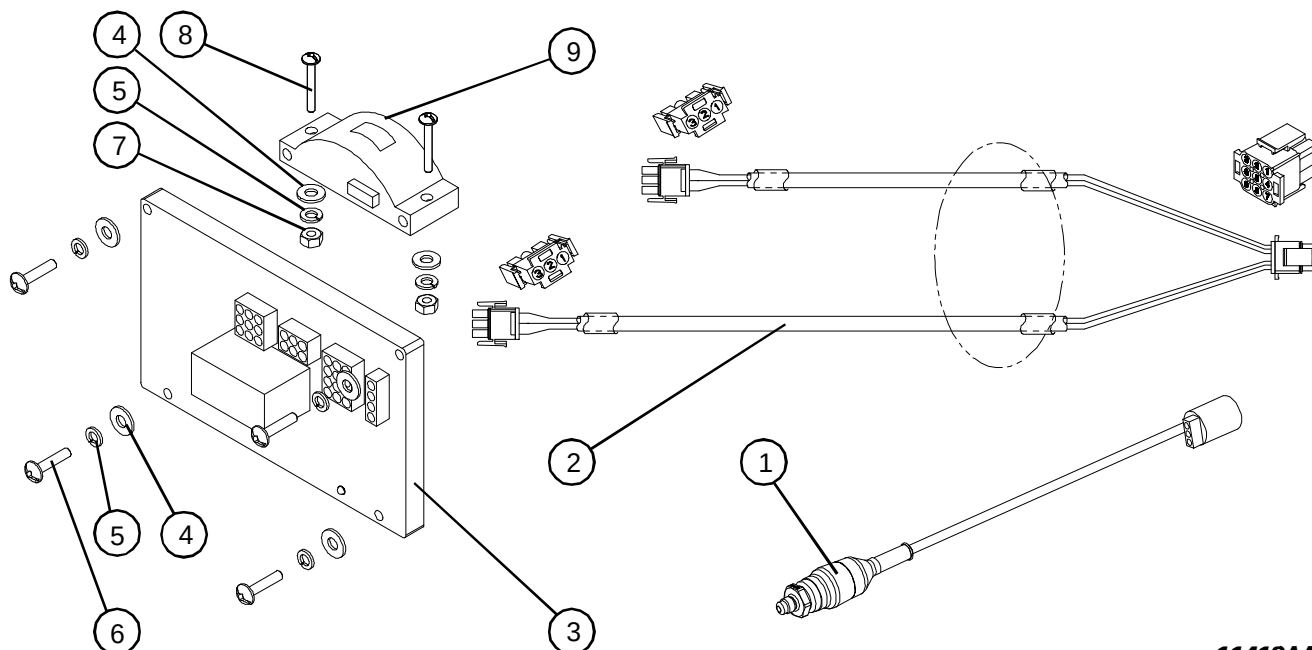
Table 1-1

Machine	Number of Extension Decks	Curve	Group Code
6826E	1 Manual Extension Deck	18	12
6826E	1 Powered Extension Deck	19	12
6832E	1 Manual Extension Deck	22	2
6832E	1 Powered Extension Deck	23	2

Parts Inventory

Note

If You Have Not Received The Complete Part Inventory, Contact SKYJACK SERVICE DEPARTMENT At (44) 1691-676 236 Or Fax (44) 1691-676 238 To Have The Missing Parts Sent To You. DO NOT Attempt Installation Without The Complete Package.



11419AA

Index No.	Skyjack Part No.	Qty.	Description
A	134470	1	KIT, Load Sensing Retrofit
1	134432	1	• TRANSDUCER, Pressure
2	134437	1	• HARNESS, Angle/Pressure Sensor
3	130439	1	• CONTROLLER MODULE, Overload Sensing
4	104694	6	• WASHER, Flat #10 S.A.E.
5	104185	6	• WASHER, Lock# 10 NOM.
6	105621	4	• SCREW, #10-32 x 1" Machine
7	104003	2	• NUT, #10-32 Gr. B Machine
8	122498	2	• SCREW, #10-32 x 1.25" Machine
9	130440	1	• TRANSDUCER, Angle
10	102891	24	• TIEWRAP, 7 1/4" Black
11	102893	12	• TIEWRAP, 13 3/4" Black
12	134485	1	• JUMPER, Insulated Alligator Clip
13	134482	1	• RETROFIT PROCEDURE

Important

In order to comply with the warranty, replaced parts MUST be sent back to Skyjack Parts Department:

**Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry,
Shropshire, U.K**

Control Module Replacement Procedure:

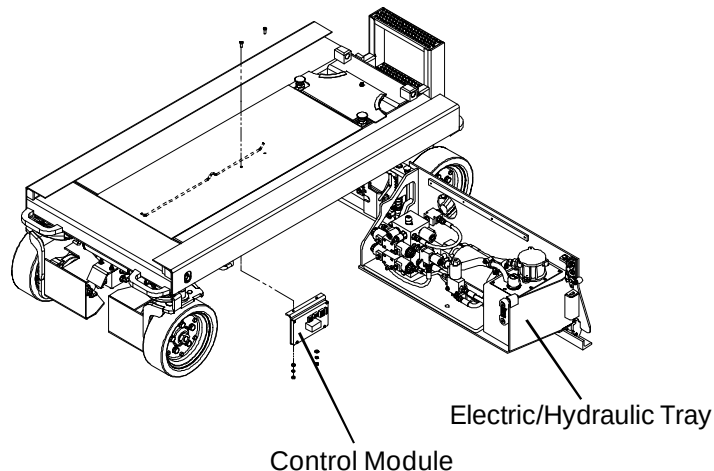
WARNING

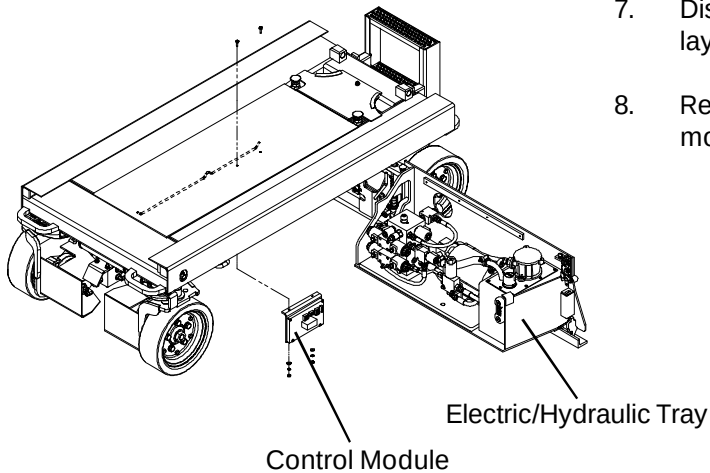
Only trained and authorized personnel shall be permitted to service an aerial platform.

WARNING

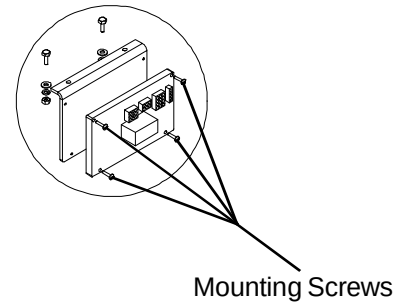
Read all instructions closely before attempting each step of the installation.

1. Ensure the aerial platform is parked on a level surface.
2. Pull out emergency stops and turn the main disconnect to the ON position.
3. Elevate the aerial platform and place the maintenance support bar into position then lower the scissor onto the maintenance support bar.
4. Push in emergency stops and turn the main disconnect to the OFF position. Lock the switch to prevent unauthorized use during this procedure.
5. Locate the hydraulic/electric tray open the tray.
6. Locate the control module under the aerial platform.



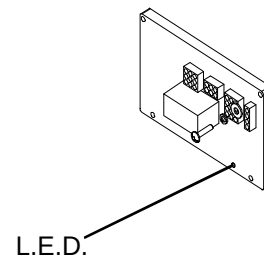


7. Disconnect all connectors from the control module and lay them aside.
8. Remove the 4 mounting screws that hold the control module in place.

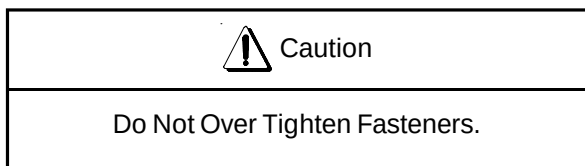


9. Replace the existing control module, part number 130439AB with the new control module part number 130439AC.

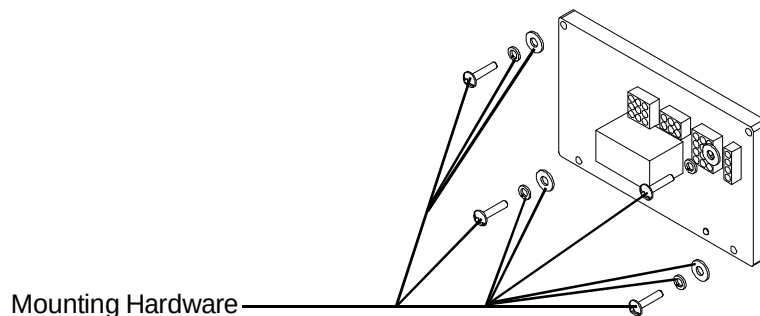
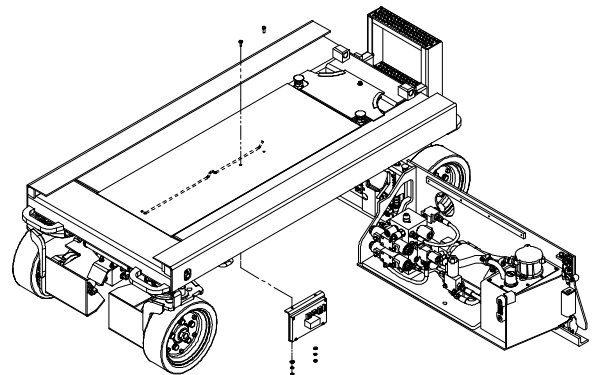
Note
130439AC is also identifiable by the presence of a red (L.E.D.).



10. Make sure the control module is facing the electric/hydraulic tray.
11. Mount the new control module using the hardware provided in the kit.
12. Make sure to use a screw, flat washer and lock washer.

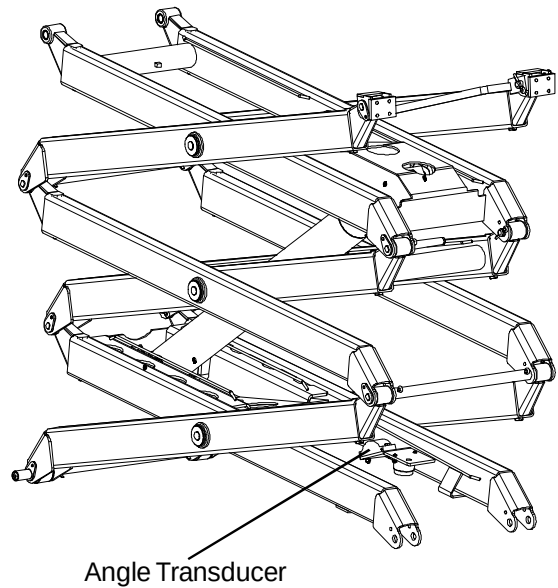
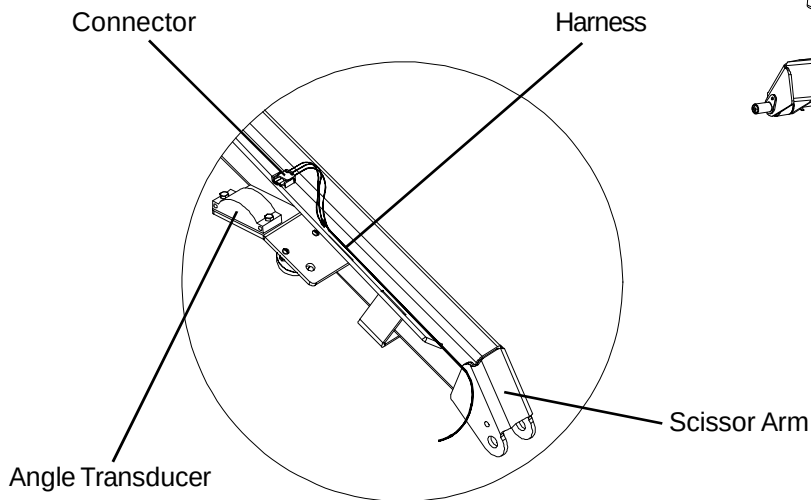


13. Tighten the screw until the lock washer flattens.



Angle Transducer Replacement Procedure:

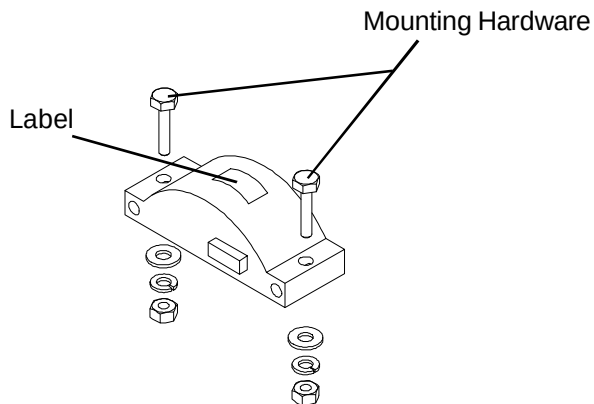
1. Locate the angle transducer. It is located at the first level scissor arm.
2. Disconnect the harness connector from the transducer and lay it aside.
3. Remove the two bolts holding the transducer on the scissor arm.



4. Replace the existing transducer, with the new transducer, part number 130440AB.

Note

The new transducer, part number 130440AB is also identifiable by the presence of a label on top of the transducer.



5. Mount the new transducer using the hardware provided in the kit.
6. Make sure to use a bolt, flat washer, lock washer and a nut.



Caution

Do Not Over Tighten Fasteners.

7. Tighten the bolt until the lock washer flattens.

Harness/Pressure Transducer Replacement Procedure:

1. Locate the pressure transducer. It is located on the block manifold at the bottom of the lower cylinder.
2. Disconnect the harness connector from the pressure transducer and lay it aside.
3. Replace the existing pressure transducer with the new pressure transducer, part number **134432AA**. The torque spec for an o-ring seal pressure transducer is 18-20 Nm.

Note

In some models, for easy access to the pressure transducer, the holding valve coil has to be removed, set aside and reinstalled once the new pressure transducer has been attached.

Note

The new pressure transducer, part number **134432AA** is also identifiable by the presence of a short harness and a connector attached to the pressure transducer.

4. Remove the existing harness from pressure transducer and angle transducer to control module by cutting all the tiewraps.
5. Attach the new harness in place of the existing harness and insert all the connectors into the their corresponding slots.

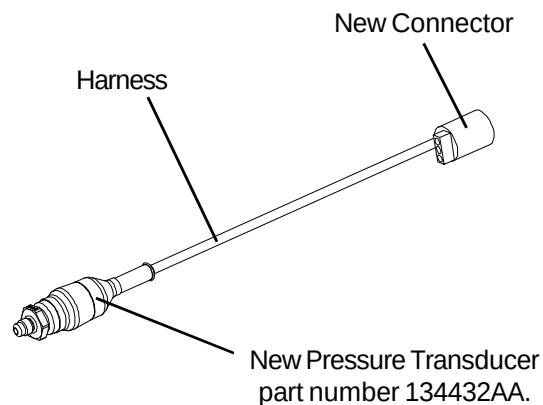
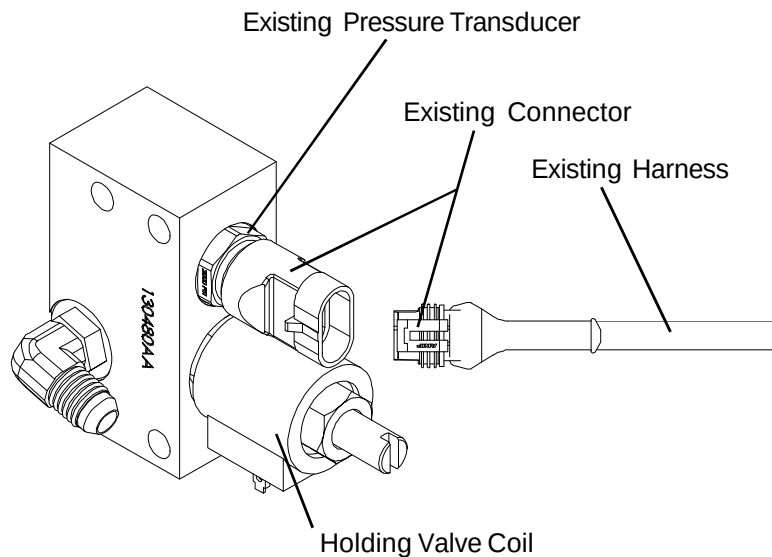




Figure 1. Locked Position

Note
The plug has to be secured tightly to the socket by pressing it all the way down and ensuring that the two locking latches snap onto the two locking tabs in the socket.
Confirm that it is locked by trying to pull the plug out from the socket.



Figure 2. Unlocked Position

6. Reinstall any cables that had been disconnected during this procedure.
7. Use tie wraps as required to secure the new harness.
8. Make sure all connections are tight and the harness is properly secured.

Important
The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department. Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

9. Pull out emergency stops and turn the main disconnect to the ON position.
10. Elevate the aerial platform and place the maintenance support bar into its rest position.
11. Lower the aerial platform fully.
12. Follow the module calibration procedure on the following pages.

Calibration Procedure:



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.

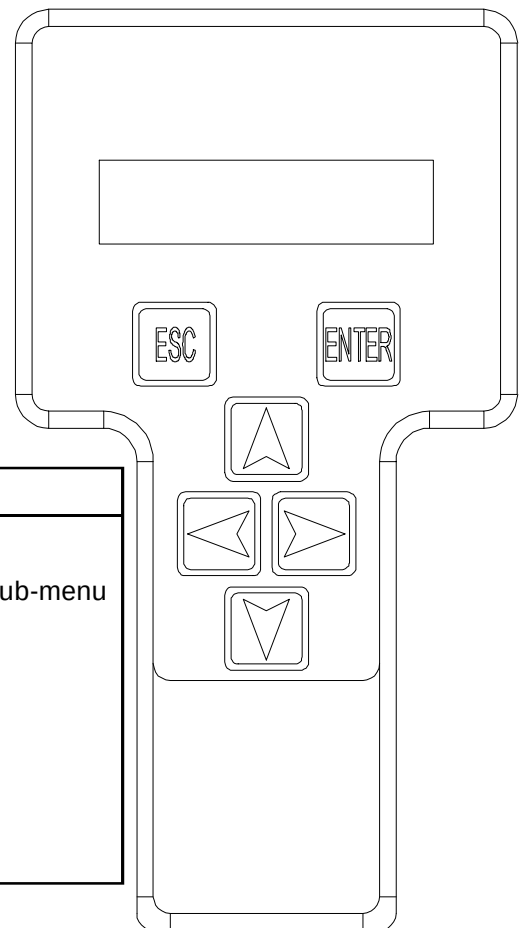


WARNING

Read all instructions closely before attempting each phase of this Procedure.

The following equipment is needed to complete this procedure.

- Easy-Cal Hand Held Calibration/Diagnostic Tool
- **JUMPER, Insulated Alligator Clip**



SYMBOL	KEY FUNCTIONS
 	ESC/ENTER BUTTONS To move back and forth between menu and sub-menu
 	LEFT/RIGHT BUTTONS Select menus and setting to be adjusted
 	UP/DOWN BUTTONS Adjust setting values

1. Move the aerial platform to a test area where the platform can be elevated to its maximum working height and reach.
2. Ensure the aerial platform is parked on a firm, level surface.

IMPORTANT

Each phase must be completed before the next phase can be carried out.
All phases must be completed before the aerial platform can be operated.

IMPORTANT

Always follow the instructions of the [Calibration](#) instrument.

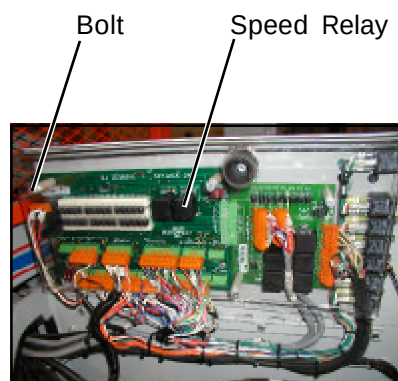
IMPORTANT

Make sure the aerial platform is on BASE mode.

3. Locate the circuit board on the electrical panel assembly.
4. Remove the glass protection by unfastening the four bolts.
5. Locate the resistor under the speed relay.
6. The jumper connection has to be done on the resistor located under the speed relay.



Resistor



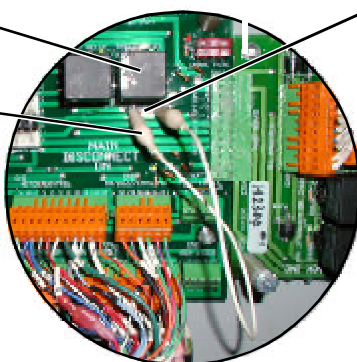
Note

To ensure good and clear contact, clean the lead terminals of the resistor before attaching the alligator clips of the jumper.

Speed Relay

Resistor

JUMPER, Insulated
Alligator Clip



7. Connect the Easy-Cal tool to the P1 connector on the CONTROL MODULE.
8. **The display will show "Help: Press Enter".**
By using Left/Right buttons, select the "Access Level (?)" from the menu and press the **ENTER** button.

**Contact SKYJACK SERVICE DEPARTMENT At
(44) 1691-676 236 for your Access Level Code Number.**
9. **The display will show "Access Level Code (xxxx)".**
By using the Up/Down buttons, enter the Access Level Code (xxxx) followed by pressing the **ENTER** button.
10. **The display will show "Access Level 2".**
By using Left/Right buttons, select the **"Setups"** from the menu and press the **ENTER** button.
11. **The display will show "Machine Defaults".**
Select the **"Machine Defaults"** from the menu and press the **ENTER** button.
12. **The display will show "Defaults, 0 = Custom".**
By using Left/Right buttons, select the **"X = Group Code"** from the menu and press the **ENTER** button.
13. **The display will show "X=GROUP CODE". (For group Code Refer to Table 1-1)**
By using the Up/Down buttons, enter the **"Group Code (?)"** then by using Left/Right buttons, select the **"Curve"** from the menu.
14. **The display will show "X=CURVE". (For Curve Code Refer to Table 1-1)**
By using the Up/Down buttons, enter the **"Curve Code (?)"** followed by pressing the **ESCAPE** button.
15. **The display will show "Machine Defaults".**
By using Left/Right buttons, select the **"Tilt Setups"** from the menu and press the **ENTER** button.
16. **The display will show "Tilt Setups: Calibrate Level".**
Select the **"Tilt Setups: Calibrate Level"** from the menu and press the **ENTER** button.
17. **The display will show "Calibrate Level: Yes: Enter, No: ESC".**
Select the **"Yes"** from the menu by press the **ENTER** button.
18. **The display will show "Calibrate Level: Tilt 0.0' , 0.0".**
Select the **"ESCAPE"** from the menu once.
19. **The display will show "Tilt Setups Calibrate Level".**
Select the **"ESCAPE"** from the menu once again.
20. **The display will show "Setups Tilt Setups".**
By using Left/Right buttons, select the **"Load Setups"** from the menu and press the **ENTER** button.
21. **The display will show "Load Setups: Calibrate Load".**
Select the **"Load Setups: Calibrate Load"** from the menu and press the **ENTER** button.
22. At this point, elevate the platform to full height, check the harness and making sure it is not stretched too tight and then fully lower the platform.
23. **The display will show "Calibrate Load: Platform Down?".**
Asking for confirmation that the platform is fully lowered?
Check that the platform is fully lowered then press the **ENTER** button to confirm.

24. The display will show **"Calibrate: Loaded Empty? No"**.
Asking for confirmation that the platform is empty?
Check that the platform is empty?
25. By using the Up/Down buttons, enter the **"Yes"** followed by pressing the **ENTER** button.
26. The display will show **"Calibrate Load: Please Lift . . ."**.
Waiting for the lift switch to be activated.
27. Hold the lift switch and keep holding it until the platform is fully elevated.

IMPORTANT

If the lift switch is released earlier than full-height position, the calibration will have to be aborted and repeated from the beginning!
--

28. When the system detects the lift switch closed, the display will show **"Calibrate Load: Lift Empty"**.
29. After a delay, the system will stop the platform lifting and will take height & pressure measurements; the display will show **"MEASURING # xx"** When the measurements have been taken, the platform will resume lifting.

Note

The lifting ... stopping ... measuring ... lifting process will continue until the platform reaches full height.
--

30. When the platform reaches full height release the lift switch.
31. The display will briefly show **"TOTAL DATA: 04"** to indicate the number of measurements taken.
32. The display will show **"Calibrate Load: Please Lower . . ."**.

IMPORTANT

If the lower switch is released earlier than full-lowered position, the calibration will have to be aborted and repeated from the beginning!
--

33. Hold the lower switch and keep holding it until the platform is fully lowered.
34. When the system detects the lower switch closed, the display will show **"Calibrate Load: Lower Empty"**.
35. After a delay, the system will stop the platform lowering and will take height & pressure measurements; the display will show **"MEASURING #xx"** When the measurements have been taken, the platform will resume lowering.

Note

The lowering ... stopping ... measuring ... lowering process will continue until the platform is fully lowered.

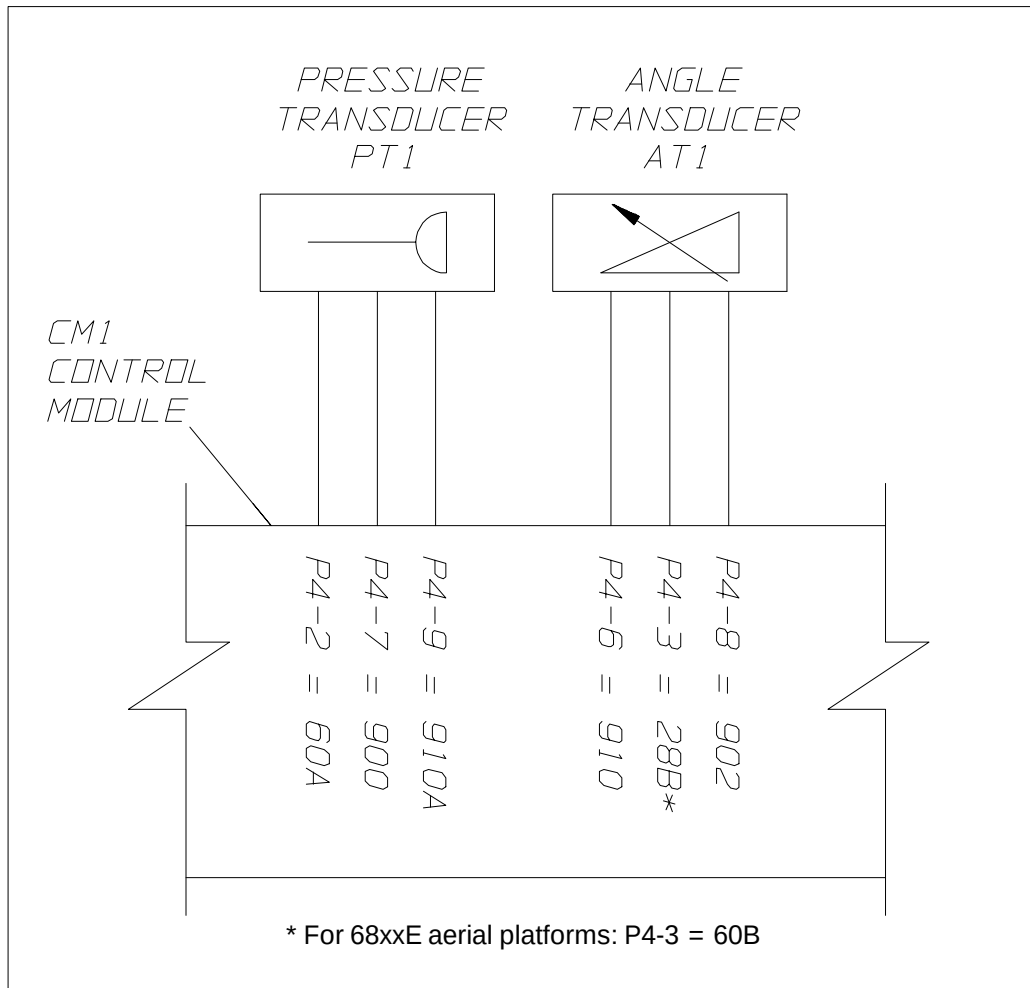
36. When the platform is fully lowered (and height 0% is displayed), release the lower switch.
37. The display will show briefly **"TOTAL DATA: 04"** to indicate the number of measurements taken.
38. The display will show **"Calibrate Load: Caldate: mm/dd/yy"**.
It is recommended that the current date be entered here to provide easy tracking of the date of last calibration.
The current date must be entered using the LEFT/RIGHT and UP/DOWN buttons.
39. Press **ENTER** to complete date entry (the system will store it).
40. The display will show **"FINISHED!"**
41. Press the ESC button to exit the **"CALIBRATE LOAD"** option.
42. Close the hydraulic/electric tray.
43. The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department:

Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

IMPORTANT

Replaced parts **MUST** be sent back to Skyjack Parts Department in order to comply with the warranty.

Electrical Schematic

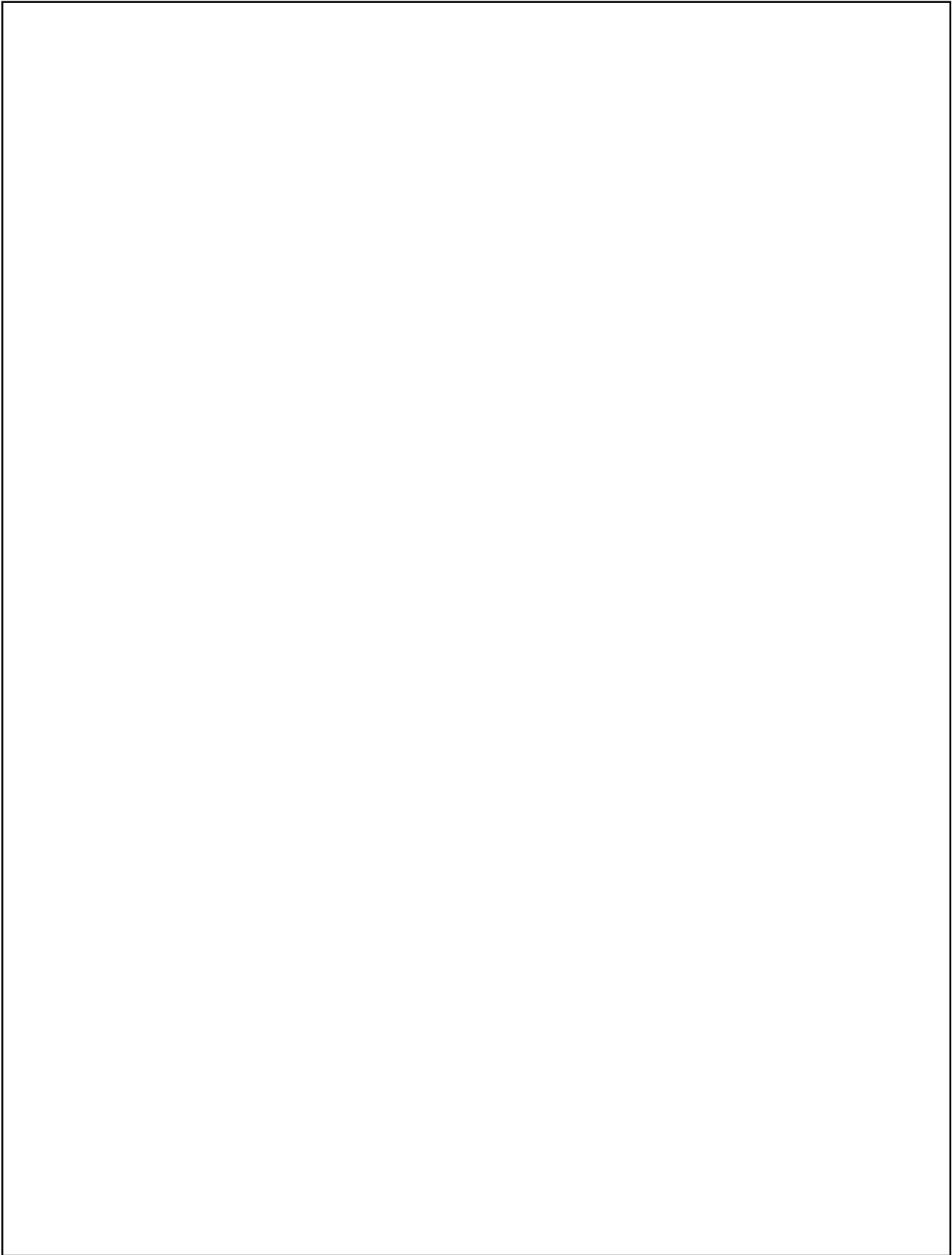


Note

For the latest schematic, please refer to the Skyjack web site: www.skyjackinc.com

Attach this schematic to the Load Sensing Operating Manual

Note



Attach this schematic to the Load Sensing Operating Manual



SJ-RT 8831E Series

Load Sensing System Retrofit Procedure

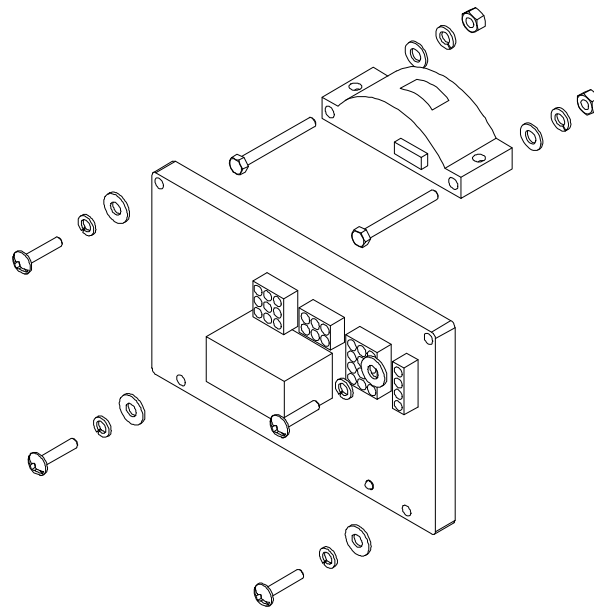


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WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform



WARNING

Read all instructions closely before attempting each step of the installation.

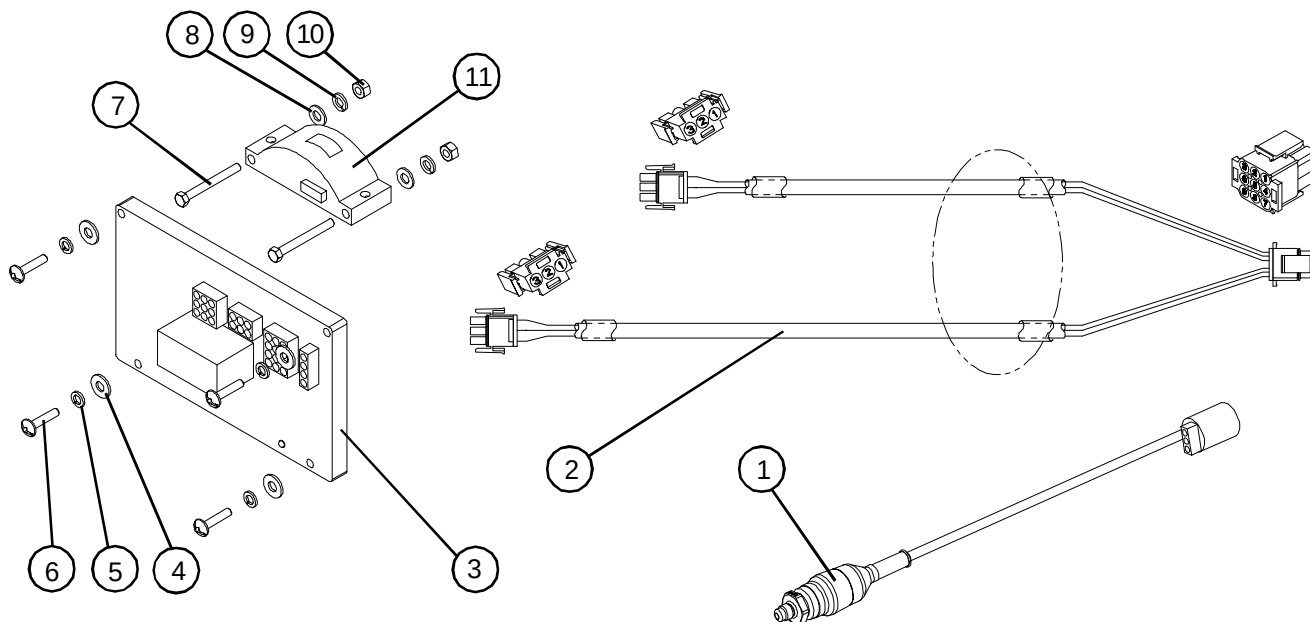
Table 1-1

Machine	Number of Extension Decks	Curve	Group Code
8831E	No Extension Deck	35	13
8831E	1 Manual Extension Deck	36	13
8831E	1 Powered Extension Deck	37	13
8831E	2 Manual Extension Decks	38	13
8831E	2 Powered Extension Decks	39	13

Parts Inventory

Note

If You Have Not Received The Complete Part Inventory, Contact SKYJACK SERVICE DEPARTMENT At (44) 1691-676 236 Or Fax (44) 1691-676 238 To Have The Missing Parts Sent To You. DO NOT Attempt Installation Without The Complete Package.



11417AA

Index No.	Skyjack Part No.	Qty.	Description
A	134471	1	KIT, Load Sensing Retrofit
1	134431	1	• TRANSDUCER, Pressure
2	134438	1	• HARNESS, Angle/Pressure Sensor
3	130439	1	• CONTROLLER MODULE, Overload Sensing
4	104694	4	• WASHER, Flat #10 S.A.E.
5	104185	4	• WASHER, Lock# 10 NOM.
6	105621	4	• SCREW, #10-32 x 1" Machine
7	103862	2	• BOLT, 0.25" - 20 x 2.25 GR. 5
8	103995	2	• WASHER, Flat 0.25" S.A.E.
9	104000	2	• WASHER, Lock 0.25"
10	103980	2	• NUT, 0.25" - 20 GR. 5
11	130440	1	• TRANSDUCER, Angle
12	102891	12	• TIEWRAP, 7 1/4" Black
13	102893	24	• TIEWRAP, 13 3/4" Black
14	134485	1	• JUMPER, Insulated Alligator Clip
15	134483	1	• RETROFIT PROCEDURE

Important

In order to comply with the warranty, replaced parts MUST be sent back to Skyjack Parts Department:

**Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry,
Shropshire, U.K**

Control Module Replacement Procedure:



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.

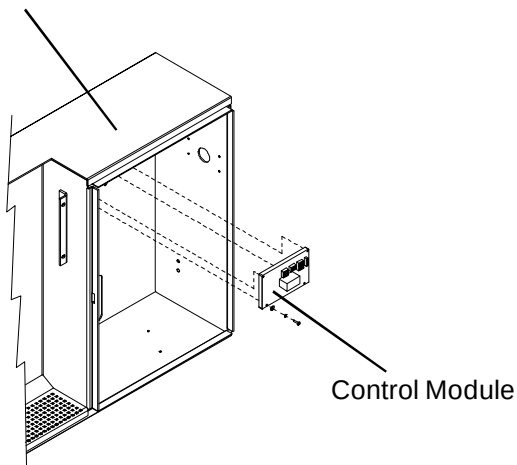


WARNING

Read all instructions closely before attempting each step of the installation.

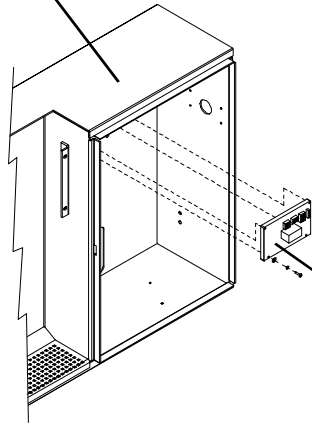
1. Ensure the aerial platform is parked on a level surface.
2. Pull out emergency stops and turn the main disconnect to the ON position.
3. Elevate the platform and place the maintenance support bar into position then lower the scissor onto the maintenance support bar.
4. Push in emergency stops and turn the main disconnect to the OFF position. Lock the switch to prevent unauthorized use during this procedure.
5. Locate the hydraulic/electric side cabinet open the cabinet door.
6. Locate the control module inside the cabinet.

Electric/Hydraulic cabinet



Control Module

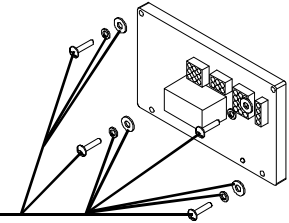
Electric/Hydraulic cabinet



Control Module

7. Disconnect all connectors from the control module and lay them aside.
8. Remove the 4 mounting screws that hold the control module in place.

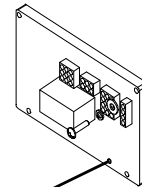
Mounting Hardware



9. Replace the existing control module, part number 130439AB with the new control module part number 130439AC.

Note
130439AC is also identifiable by the presence of a red (L.E.D.).

L.E.D.



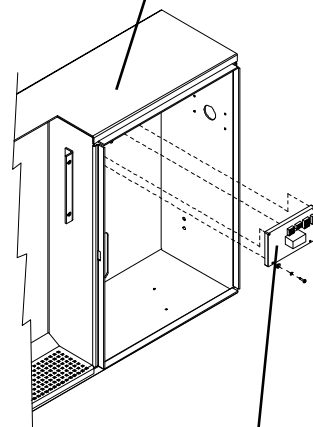
10. Mount the new control module using the hardware provided in the kit.
11. Make sure to use a screw, flat washer and lock washer.



Caution

Do Not Over Tighten Fasteners.

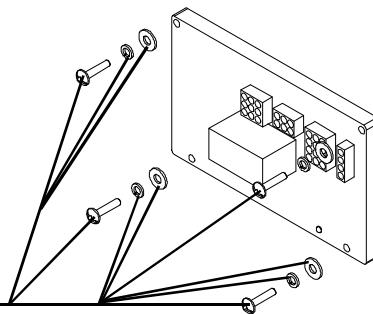
Electric/Hydraulic cabinet



Control Module

12. Tighten the screw until the lock washer flattens.

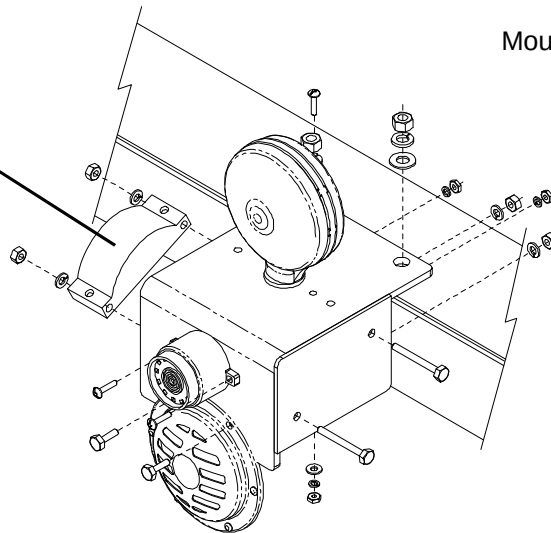
Mounting Hardware



Angle Transducer Replacement Procedure:

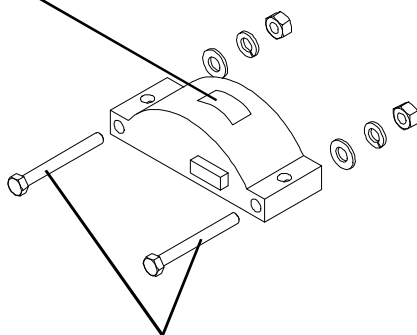
1. Locate the angle transducer. It is located at the first level scissor arm.
2. Disconnect the harness connector from the transducer and lay it aside.
3. Remove the two bolts holding the transducer on the scissor arm.

Angle Transducer



Mounting Hardware

Label



Mounting Hardware

4. Replace the existing transducer, with the new transducer, part number **130440AB**.

Note

The new transducer, part number 130440AB is also identifiable by the presence of a label on top of the transducer.

5. Mount the new transducer using the hardware provided in the kit.
6. Make sure to use a bolt, flat washer, lock washer and a nut.



Caution

Do Not Over Tighten Fasteners.

7. Tighten the bolt until the lock washer flattens.

Harness/Pressure Transducer Replacement Procedure:

1. Locate the pressure transducer. It is located on the block manifold at the bottom of the **lower** cylinder.
2. Disconnect the harness connector from the pressure transducer and lay it aside.
3. Replace the existing pressure transducer with the new pressure transducer, part number 134431AA. **The torque spec for an o-ring seal pressure transducer is 18-20 Nm.**

Note

The new pressure transducer, part number 134431AA is also identifiable by the presence of a short harness and a connector attached to the pressure transducer.

4. Remove the existing harness from pressure transducer and angle transducer to control module by cutting all the tie wraps.
5. Attach the new harness in place of the existing harness and insert all the connectors into the their corresponding slots.
6. Use tie wraps as required to secure the new harness.

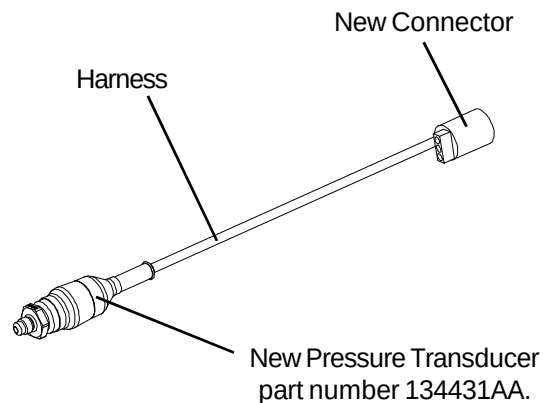
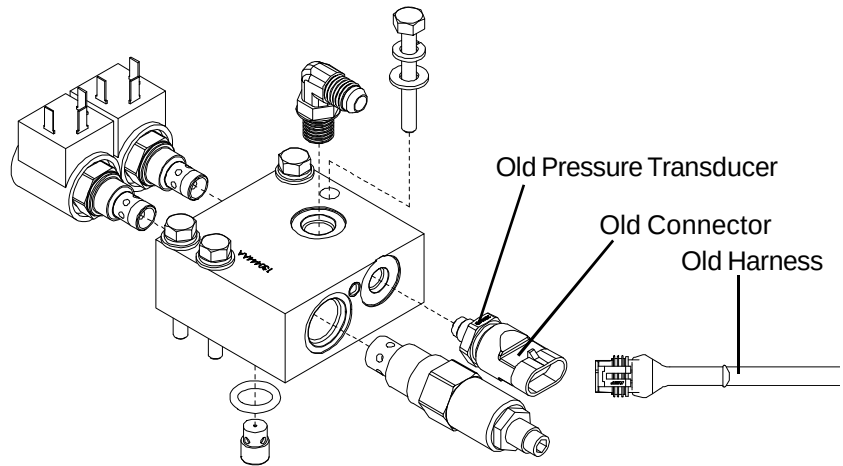


Figure 1. Locked Position

Note
The plug has to be secured tightly to the socket by pressing it all the way down and ensuring that the two locking latches snap onto the two locking tabs in the socket.
Confirm that it is locked by trying to pull the plug out from the socket.



Figure 2. Unlocked Position

7. Make sure all connections are tight and the harness is properly secured.

Important
The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department.
Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

8. Pull out emergency stops and turn the main disconnect to the ON position.
9. Elevate the platform and place the maintenance support bar into its rest position.
10. Lower the platform fully.
11. Follow the module calibration procedure on the following pages.

Calibration Procedure:



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.

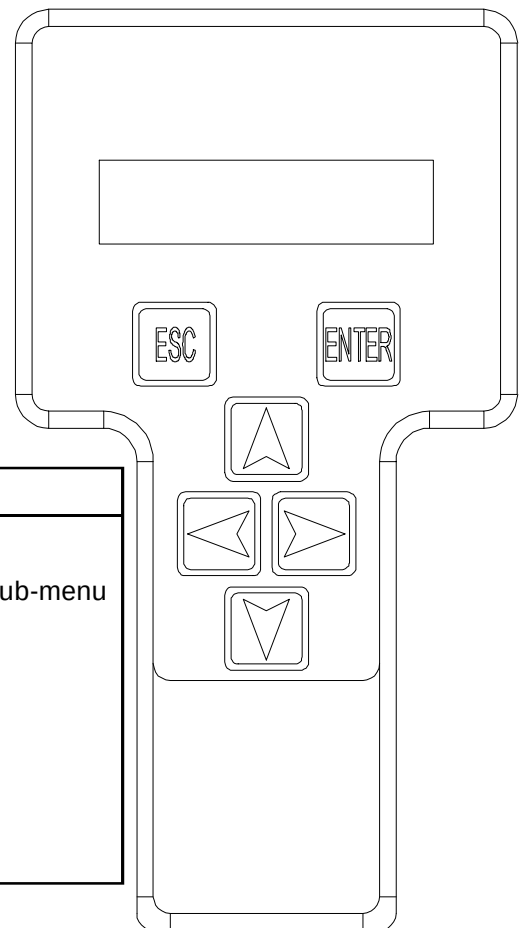


WARNING

Read all instructions closely before attempting each phase of this Procedure.

The following equipment is needed to complete this procedure.

- Easy-Cal Hand Held Calibration/Diagnostic Tool
- **JUMPER, Insulated Alligator Clip**



SYMBOL	KEY FUNCTIONS
 	ESC/ENTER BUTTONS To move back and forth between menu and sub-menu
 	LEFT/RIGHT BUTTONS Select menus and setting to be adjusted
 	UP/DOWN BUTTONS Adjust setting values

1. Move the aerial platform to a test area where the platform can be elevated to its maximum working height and reach.
2. Ensure the aerial platform is parked on a firm, level surface.

IMPORTANT

Each phase must be completed before the next phase can be carried out.
All phases must be completed before the aerial platform can be operated.

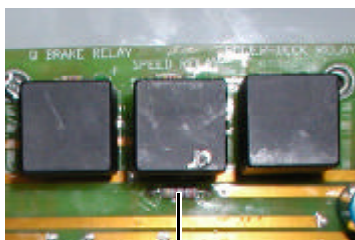
IMPORTANT

Always follow the instructions of the [Calibration](#) instrument.

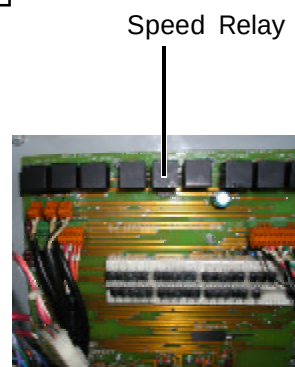
IMPORTANT

Make sure the aerial platform is on BASE mode.

3. Locate the circuit board inside the hydraulic/ electric cabinet.
4. Locate the resistor under the speed relay.
5. The jumper connection has to be done on the resistor located under the speed relay.



Resistor



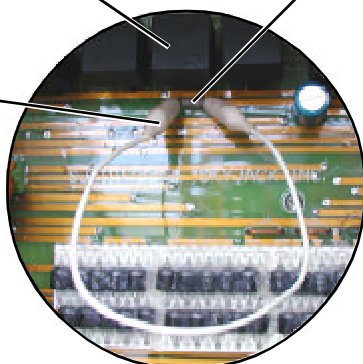
Speed Relay

Note
To ensure good and clear contact, clean the lead terminals of the resistor before attaching the alligator clips of the jumper.

Speed Relay

Resistor

Alligator Jumper Wire



6. Connect the Easy-Cal tool to the P1 connector on the CONTROL MODULE.
7. **The display will show "Help: Press Enter".**
By using Left/Right buttons, select the "Access Level (?)" from the menu and press the **ENTER** button.

**Contact SKYJACK SERVICE DEPARTMENT At
(44) 1691-676 236 for your Access Level Code Number.**
8. **The display will show "Access Level Code (xxxx)".**
By using the Up/Down buttons, enter the Access Level Code (xxxx) followed by pressing the **ENTER** button.
9. **The display will show "Access Level 2".**
By using Left/Right buttons, select the **"Setups"** from the menu and press the **ENTER** button.
10. **The display will show "Machine Defaults".**
Select the **"Machine Defaults"** from the menu and press the **ENTER** button.
11. **The display will show "Defaults, 0 = Custom".**
By using Left/Right buttons, select the **"X = Group Code"** from the menu and press the **ENTER** button.
12. **The display will show "X=GROUP CODE". (For group Code Refer to Table 1-1)**
By using the Up/Down buttons, enter the **"Group Code (?)"** then by using Left/Right buttons, select the **"Curve"** from the menu.
13. **The display will show "X=CURVE". (For Curve Code Refer to Table 1-1)**
By using the Up/Down buttons, enter the **"Curve Code (?)"** followed by pressing the **ESCAPE** button.
14. **The display will show "Machine Defaults".**
By using Left/Right buttons, select the **"Tilt Setups"** from the menu and press the **ENTER** button.
15. **The display will show "Tilt Setups: Calibrate Level".**
Select the **"Tilt Setups: Calibrate Level"** from the menu and press the **ENTER** button.
16. **The display will show "Calibrate Level: Yes: Enter, No: ESC".**
Select the **"Yes"** from the menu by press the **ENTER** button.
17. **The display will show "Calibrate Level: Tilt 0.0' , 0.0'".**
Select the **"ESCAPE"** from the menu once.
18. **The display will show "Tilt Setups Calibrate Level".**
Select the **"ESCAPE"** from the menu once again.
19. **The display will show "Setups Tilt Setups".**
By using Left/Right buttons, select the **"Load Setups"** from the menu and press the **ENTER** button.
20. **The display will show "Load Setups: Calibrate Load".**
Select the **"Load Setups: Calibrate Load"** from the menu and press the **ENTER** button.
21. At this point, elevate the platform to full height, check the harness and making sure it is not stretched too tight and then fully lower the platform.
22. **The display will show "Calibrate Load: Platform Down?".**
Asking for confirmation that the platform is fully lowered?
Check that the platform is fully lowered then press the **ENTER** button to confirm.

23. The display will show **“Calibrate: Loaded Empty? No”**.
Asking for confirmation that the platform is empty?
Check that the platform is empty?
24. By using the Up/Down buttons, enter the **“Yes”** followed by pressing the **ENTER** button.
25. The display will show **“Calibrate Load: Please Lift . . .”**.
Waiting for the lift switch to be activated.
26. Hold the lift switch and keep holding it until the platform is fully elevated.

IMPORTANT

If the lift switch is released earlier than full-height position, the calibration will have to be aborted and repeated from the beginning!
--

27. When the system detects the lift switch closed, the display will show **“Calibrate Load: Lift Empty”**.
28. After a delay, the system will stop the platform lifting and will take height & pressure measurements; the display will show **“MEASURING # xx”** When the measurements have been taken, the platform will resume lifting.

Note

The lifting ... stopping ... measuring ... lifting process will continue until the platform reaches full height.
--

29. When the platform reaches full height release the lift switch.
30. The display will briefly show **“TOTAL DATA: 04”** to indicate the number of measurements taken.
31. The display will show **“Calibrate Load: Please Lower . . .”**.

IMPORTANT

If the lower switch is released earlier than full-lowered position, the calibration will have to be aborted and repeated from the beginning!
--

32. Hold the lower switch and keep holding it until the platform is fully lowered.
33. When the system detects the lower switch closed, the display will show **“Calibrate Load: Lower Empty”**.
34. After a delay, the system will stop the platform lowering and will take height & pressure measurements; the display will show **“MEASURING #xx”** When the measurements have been taken, the platform will resume lowering.

Note

The lowering ... stopping ... measuring ... lowering process will continue until the platform is fully lowered.

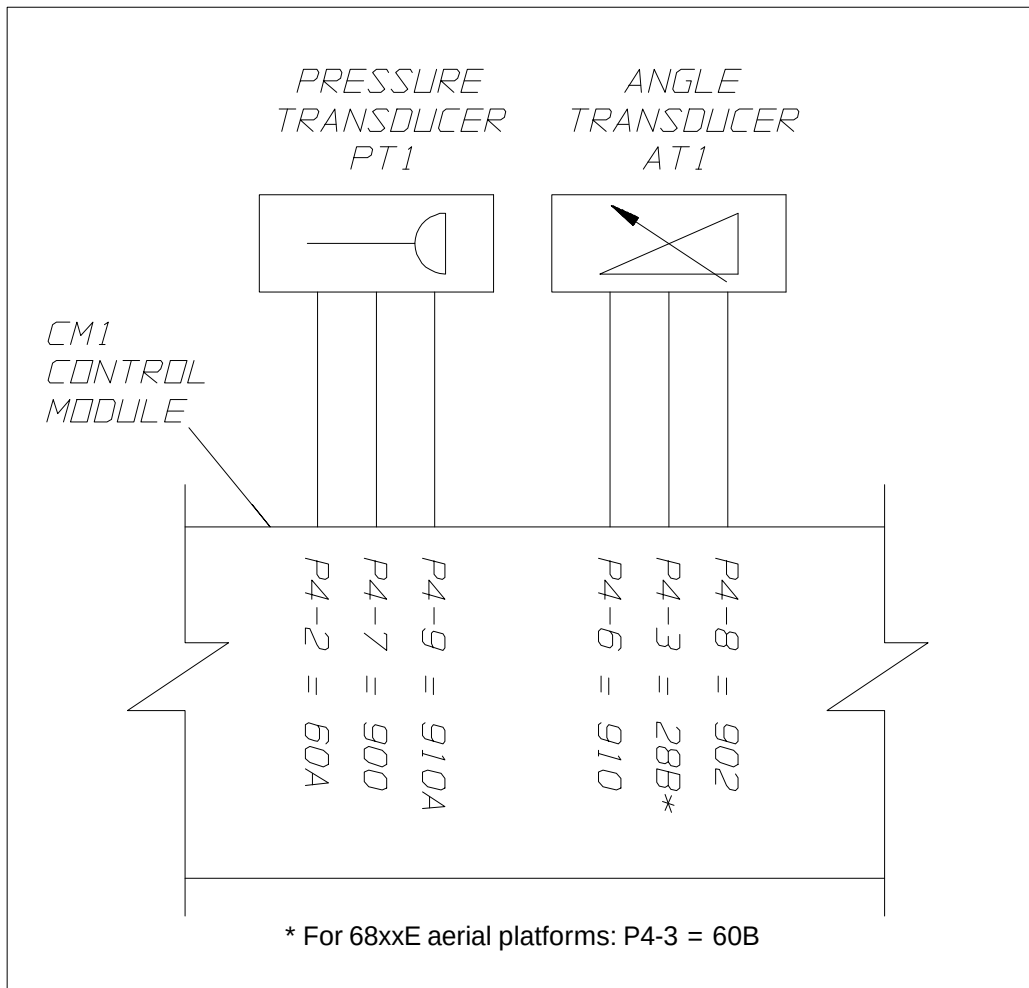
35. When the platform is fully lowered (and height 0% is displayed), release the lower switch.
36. The display will show briefly **"TOTAL DATA: 04"** to indicate the number of measurements taken.
37. The display will show **"Calibrate Load: Caldate: mm/dd/yy"**.
It is recommended that the current date be entered here to provide easy tracking of the date of last calibration. The current date must be entered using the LEFT/RIGHT and UP/DOWN buttons.
38. Press **ENTER** to complete date entry (the system will store it).
39. The display will show **"FINISHED!"**
40. Press the ESC button to exit the **"CALIBRATE LOAD"** option.
41. Remove the jumper wire and re-connect the black wire #14 to the coil removed earlier.
42. Close the hydraulic/electric cabinet.
43. The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department:

Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

IMPORTANT

Replaced parts **MUST** be sent back to Skyjack Parts Department in order to comply with the warranty.

Electrical Schematic



Note

For the latest schematic, please refer to the Skyjack web site: www.skyjackinc.com

Attach this schematic to the Load Sensing Operating Manual

Note

Attach this schematic to the Load Sensing Operating Manual



SJ-RT 8841E Series

Load Sensing System Retrofit Procedure

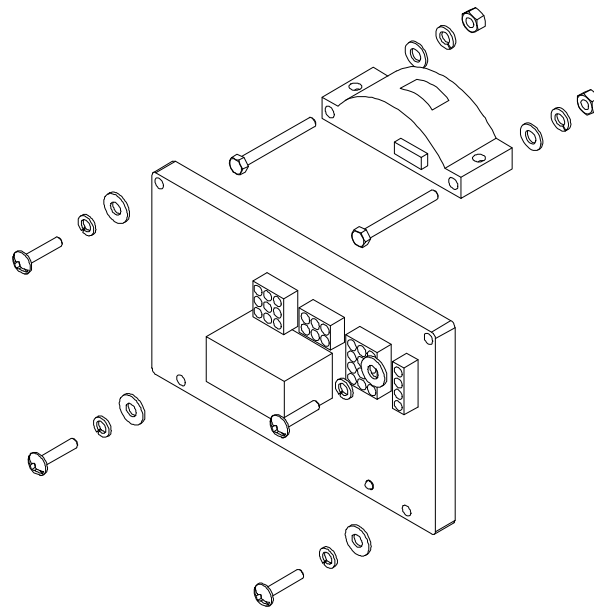


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Control Module Replacement Procedure	5
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Harness Replacement Procedure	8
Calibration Procedure	10
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WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.



WARNING

Read all instructions closely before attempting each step of the installation.

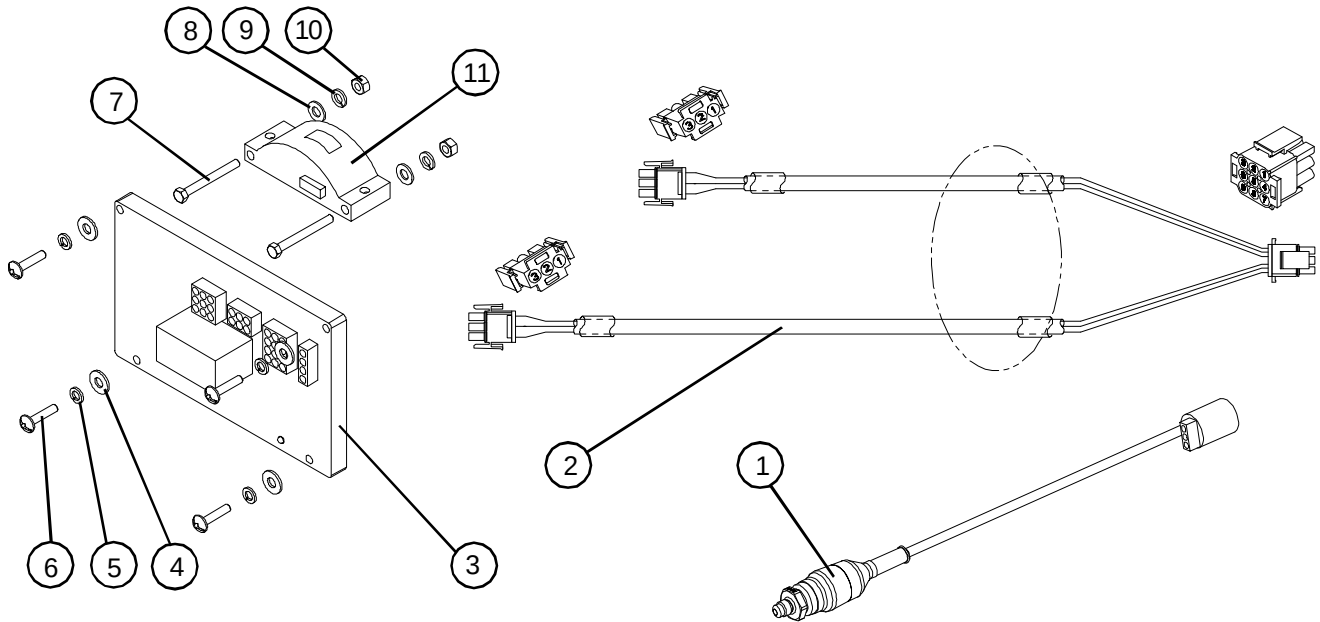
Table 1-1

Machine	Number of Extension Decks	Curve	Group Code
8841E	No Extension Deck	45	14
8841E	1 Manual Extension Deck	46	14
8841E	1 Powered Extension Deck	47	14
8841E	2 Manual Extension Decks	48	14
8841E	2 Powered Extension Decks	49	14

Parts Inventory

Note

If You Have Not Received The Complete Part Inventory, Contact SKYJACK SERVICE DEPARTMENT At (44) 1691-676 236 Or Fax (44) 1691-676 238 To Have The Missing Parts Sent To You. DO NOT Attempt Installation Without The Complete Package.



11417AA

Index No.	Skyjack Part No.	Qty.	Description
A	134472	1	KIT, Load Sensing Retrofit
1	134432	1	• TRANSDUCER, Pressure
2	134438	1	• HARNESS, Angle/Pressure Sensor
3	130439	1	• CONTROLLER MODULE, Overload Sensing
4	104694	4	• WASHER, Flat #10 S.A.E.
5	104185	4	• WASHER, Lock# 10 NOM.
6	105621	4	• SCREW, #10-32 x 1" Machine
7	103862	2	• BOLT, 0.25" - 20 x 2.25 GR. 5
8	103995	2	• WASHER, Flat 0.25" S.A.E.
9	104000	2	• WASHER, Lock 0.25"
10	103980	2	• NUT, 0.25" - 20 GR. 5
11	130440	1	• TRANSDUCER, Angle
12	102891	12	• TIEWRAP, 7 1/4" Black
13	102893	24	• TIEWRAP, 13 3/4" Black
14	134485	1	• JUMPER, Insulated Alligator Clip
15	134484	1	• RETROFIT PROCEDURE

Important

In order to comply with the warranty, replaced parts MUST be sent back to Skyjack Parts Department:

**Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry,
Shropshire, U.K**

Control Module Replacement Procedure:



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.

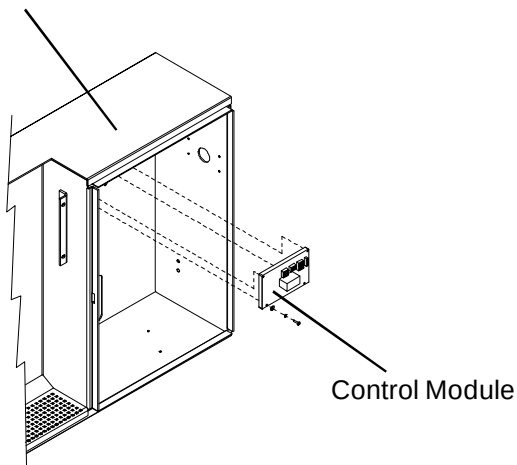


WARNING

Read all instructions closely before attempting each step of the installation.

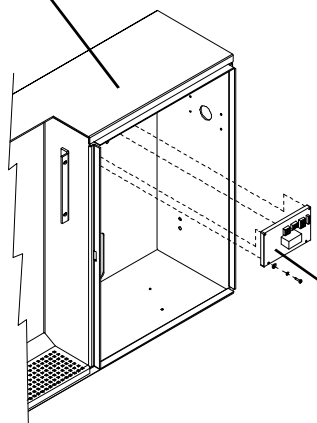
1. Ensure the aerial platform is parked on a level surface.
2. Pull out emergency stops and turn the main disconnect to the ON position.
3. Elevate the platform and place the maintenance support bar into position then lower the scissor onto the maintenance support bar.
4. Push in emergency stops and turn the main disconnect to the OFF position. Lock the switch to prevent unauthorized use during this procedure.
5. Locate the hydraulic/electric side cabinet open the cabinet door.
6. Locate the control module inside the cabinet.

Electric/Hydraulic cabinet



Control Module

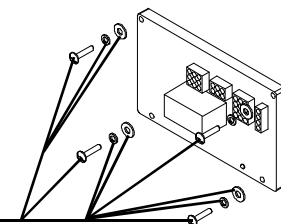
Electric/Hydraulic cabinet



Control Module

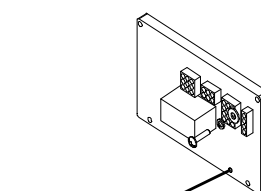
7. Disconnect all connectors from the control module and lay them aside.
8. Remove the 4 mounting screws that hold the control module in place.

Mounting Hardware



9. Replace the existing control module, part number 130439AB with the new control module part number 130439AC.

Note
130439AC is also identifiable by the presence of a red (L.E.D.).



L.E.D.

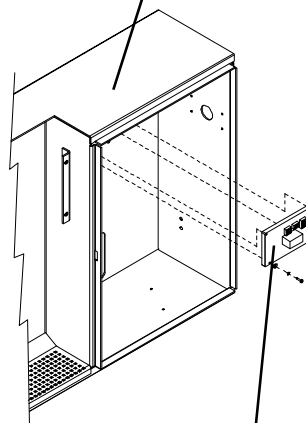
10. Mount the new control module using the hardware provided in the kit.
11. Make sure to use a screw, flat washer and lock washer.



Caution

Do Not Over Tighten Fasteners.

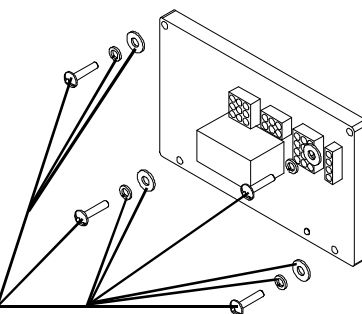
Electric/Hydraulic cabinet



Control Module

12. Tighten the screw until the lock washer flattens.

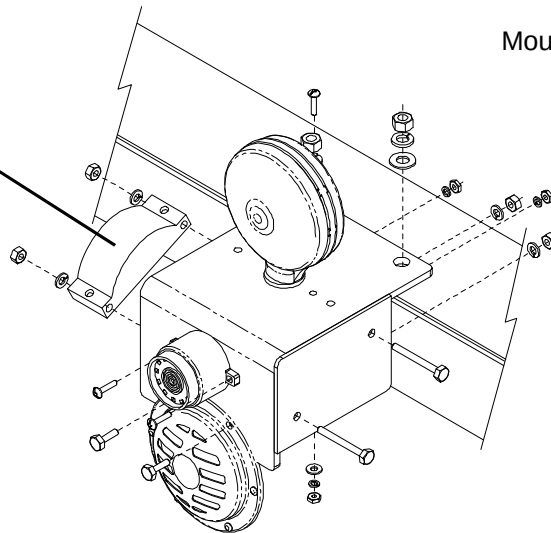
Mounting Hardware



Angle Transducer Replacement Procedure:

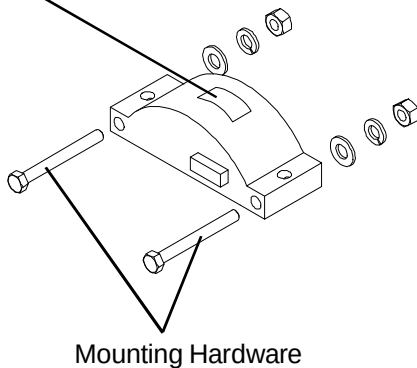
1. Locate the angle transducer. It is located at the first level scissor arm.
2. Disconnect the harness connector from the transducer and lay it aside.
3. Remove the two bolts holding the transducer on the scissor arm.

Angle Transducer



Mounting Hardware

Label



Mounting Hardware

4. Replace the existing transducer, with the new transducer, part number **130440AB**.

Note

The new transducer, part number 130440AB is also identifiable by the presence of a label on top of the transducer.

5. Mount the new transducer using the hardware provided in the kit.
6. Make sure to use a bolt, flat washer, lock washer and a nut.



Caution

Do Not Over Tighten Fasteners.

7. Tighten the bolt until the lock washer flattens.

Harness/Pressure Transducer Replacement Procedure:

1. Locate the pressure transducer. It is located on the block manifold at the bottom of the **lower** cylinder.
2. Disconnect the harness connector from the pressure transducer and lay it aside.
3. Replace the existing pressure transducer with the new pressure transducer, part number 134432AA. **The torque spec for an o-ring seal pressure transducer is 18-20 Nm.**

Note

The new pressure transducer, part number 134432AA is also identifiable by the presence of a short harness and a connector attached to the pressure transducer.

4. Remove the existing harness from pressure transducer and angle transducer to control module by cutting all the tie wraps.
5. Attach the new harness in place of the existing harness and insert all the connectors into the their corresponding slots.
6. Use tie wraps as required to secure the new harness.

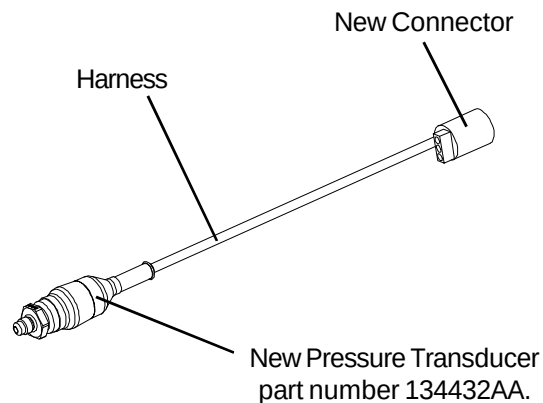
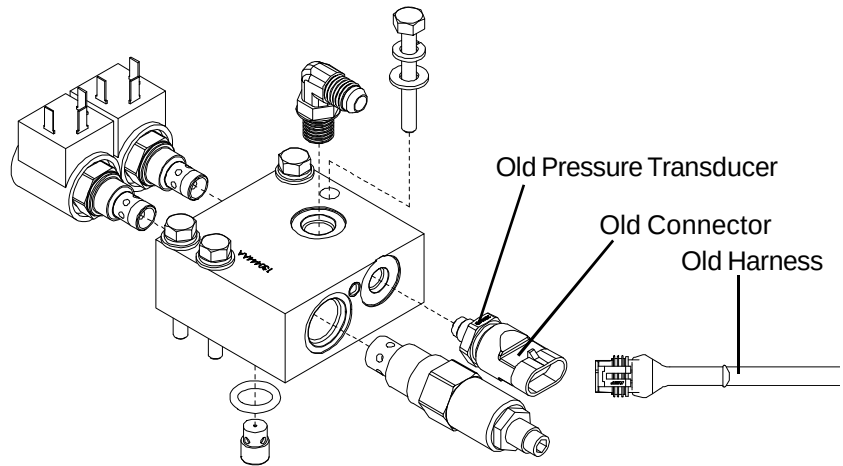


Figure 1. Locked Position

Note
The plug has to be secured tightly to the socket by pressing it all the way down and ensuring that the two locking latches snap onto the two locking tabs in the socket.
Confirm that it is locked by trying to pull the plug out from the socket.



Figure 2. Unlocked Position

7. Make sure all connections are tight and the harness is properly secured.

Important
The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department.
Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

8. Pull out emergency stops and turn the main disconnect to the ON position.
9. Elevate the platform and place the maintenance support bar into its rest position.
10. Lower the platform fully.
11. Follow the module calibration procedure on the following pages.

Calibration Procedure:



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.

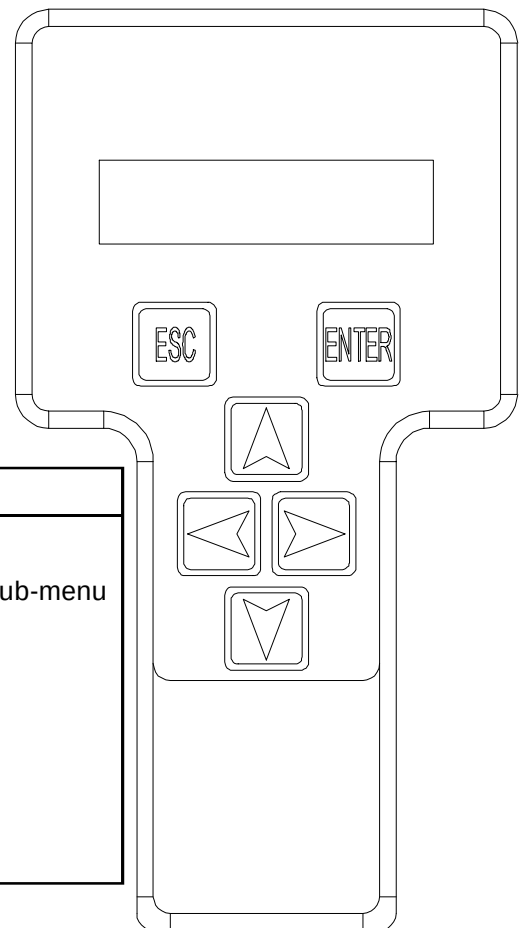


WARNING

Read all instructions closely before attempting each phase of this Procedure.

The following equipment is needed to complete this procedure.

- Easy-Cal Hand Held Calibration/Diagnostic Tool
- JUMPER, Insulated Alligator Clip



SYMBOL	KEY FUNCTIONS
 	ESC/ENTER BUTTONS To move back and forth between menu and sub-menu
 	LEFT/RIGHT BUTTONS Select menus and setting to be adjusted
 	UP/DOWN BUTTONS Adjust setting values

1. Move the aerial platform to a test area where the platform can be elevated to its maximum working height and reach.
2. Ensure the aerial platform is parked on a firm, level surface.

IMPORTANT

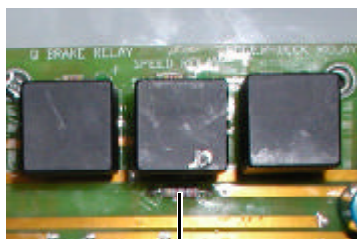
Each phase must be completed before the next phase can be carried out.
All phases must be completed before the aerial platform can be operated.

IMPORTANT

Always follow the instructions of the [Calibration](#) instrument.

IMPORTANT

Make sure the aerial platform is on BASE mode.



Resistor

3. Locate the circuit board inside the hydraulic/ electric cabinet.
4. Locate the resistor under the speed relay.
5. The jumper connection has to be done on the resistor located under the speed relay.



Speed Relay

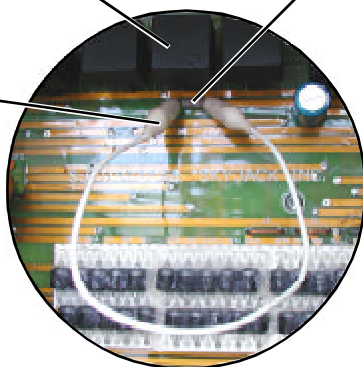
Note

To ensure good and clear contact, clean the lead terminals of the resistor before attaching the alligator clips of the jumper.

Speed Relay

Resistor

Alligator Jumper Wire



6. Connect the Easy-Cal tool to the P1 connector on the CONTROL MODULE.
7. The display will show **"Help: Press Enter"**.
By using Left/Right buttons, select the "Access Level (?)" from the menu and press the **ENTER** button.

**Contact SKYJACK SERVICE DEPARTMENT At
(44) 1691-676 236 for your Access Level Code Number.**
8. The display will show **"Access Level Code (xxxx)"**.
By using the Up/Down buttons, enter the Access Level Code (xxxx) followed by pressing the **ENTER** button.
9. The display will show **"Access Level 2"**.
By using Left/Right buttons, select the **"Setups"** from the menu and press the **ENTER** button.
10. The display will show **"Machine Defaults"**.
Select the **"Machine Defaults"** from the menu and press the **ENTER** button.
11. The display will show **"Defaults, 0 = Custom"**.
By using Left/Right buttons, select the **"X = Group Code"** from the menu and press the **ENTER** button.
12. The display will show **"X=GROUP CODE"**. **(For group Code Refer to Table 1-1)**
By using the Up/Down buttons, enter the **"Group Code (?)"** then by using Left/Right buttons, select the **"Curve"** from the menu.
13. The display will show **"X=CURVE"**. **(For Curve Code Refer to Table 1-1)**
By using the Up/Down buttons, enter the **"Curve Code (?)"** followed by pressing the **ESCAPE** button.
14. The display will show **"Machine Defaults"**.
By using Left/Right buttons, select the **"Tilt Setups"** from the menu and press the **ENTER** button.
15. The display will show **"Tilt Setups: Calibrate Level"**.
Select the **"Tilt Setups: Calibrate Level"** from the menu and press the **ENTER** button.
16. The display will show **"Calibrate Level: Yes: Enter, No: ESC"**.
Select the **"Yes"** from the menu by press the **ENTER** button.
17. The display will show **"Calibrate Level: Tilt 0.0' , 0.0"**.
Select the **"ESCAPE"** from the menu once.
18. The display will show **"Tilt Setups Calibrate Level"**.
Select the **"ESCAPE"** from the menu once again.
19. The display will show **"Setups Tilt Setups"**.
By using Left/Right buttons, select the **"Load Setups"** from the menu and press the **ENTER** button.
20. The display will show **"Load Setups: Calibrate Load"**.
Select the **"Load Setups: Calibrate Load"** from the menu and press the **ENTER** button.
21. At this point, elevate the aerial platform to full height, check the harness and making sure it is not stretched too tight and then fully lower the platform.
22. The display will show **"Calibrate Load: Platform Down?"**.
Asking for confirmation that the platform is fully lowered?
Check that the platform is fully lowered then press the **ENTER** button to confirm.

23. The display will show **"Calibrate: Loaded Empty? No"**.
Asking for confirmation that the platform is empty?
Check that the platform is empty?
24. By using the Up/Down buttons, enter the **"Yes"** followed by pressing the **ENTER** button.
25. The display will show **"Calibrate Load: Please Lift . . ."**.
Waiting for the lift switch to be activated.
26. Hold the lift switch and keep holding it until the platform is fully elevated.

IMPORTANT

If the lift switch is released earlier than full-height position, the calibration will have to be aborted and repeated from the beginning!

27. When the system detects the lift switch closed, the display will show **"Calibrate Load: Lift Empty"**.
28. After a delay, the system will stop the platform lifting and will take height & pressure measurements; the display will show **"MEASURING # xx"** When the measurements have been taken, the platform will resume lifting.

Note

The lifting ... stopping ... measuring ... lifting process will continue until the platform reaches full height.

29. When the platform reaches full height release the lift switch.
30. The display will briefly show **"TOTAL DATA: 04"** to indicate the number of measurements taken.
31. The display will show **"Calibrate Load: Please Lower . . ."**.

IMPORTANT

If the lower switch is released earlier than full-lowered position, the calibration will have to be aborted and repeated from the beginning!

32. Hold the lower switch and keep holding it until the platform is fully lowered.
33. When the system detects the lower switch closed, the display will show **"Calibrate Load: Lower Empty"**.
34. After a delay, the system will stop the platform lowering and will take height & pressure measurements; the display will show **"MEASURING #xx"** When the measurements have been taken, the platform will resume lowering.

Note

The lowering ... stopping ... measuring ... lowering process will continue until the platform is fully lowered.

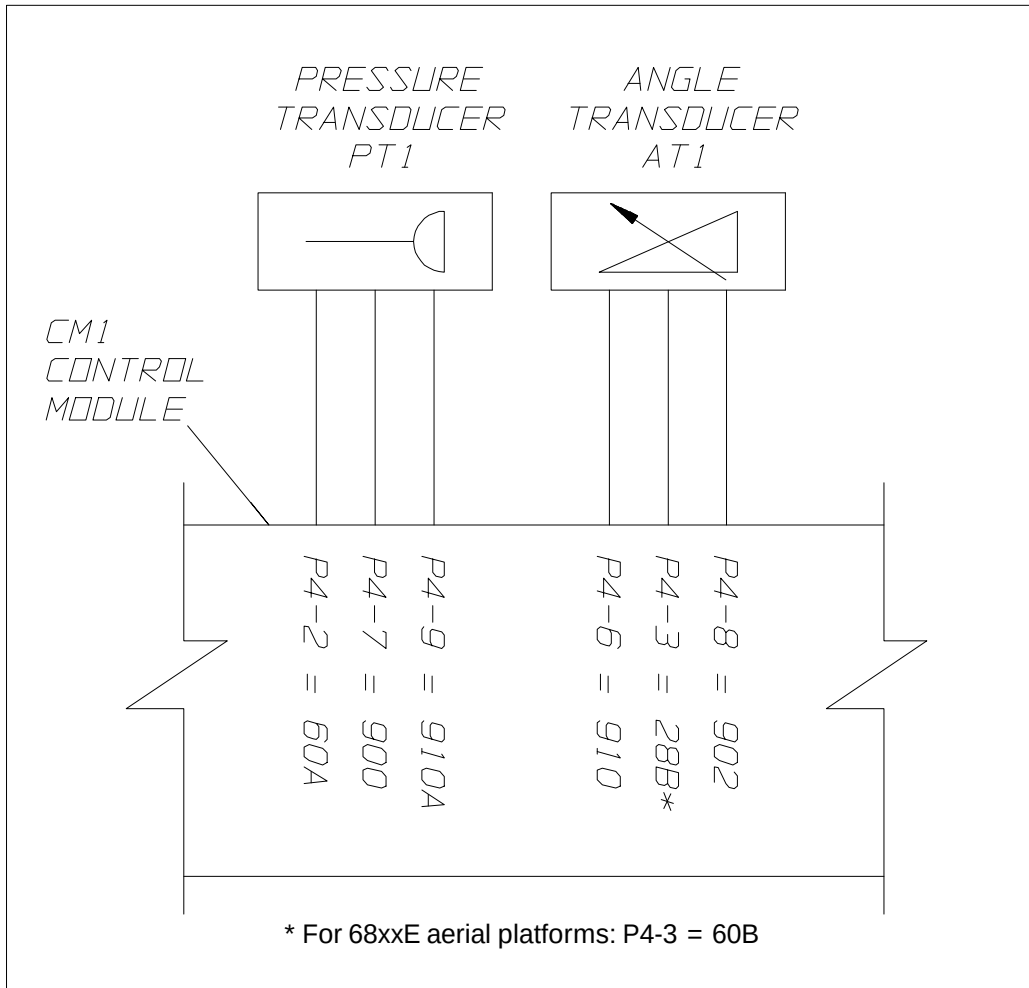
35. When the platform is fully lowered (and height 0% is displayed), release the lower switch.
36. The display will show briefly **"TOTAL DATA: 04"** to indicate the number of measurements taken.
37. The display will show **"Calibrate Load: Caldate: mm/dd/yy"**.
It is recommended that the current date be entered here to provide easy tracking of the date of last calibration.
The current date must be entered using the LEFT/RIGHT and UP/DOWN buttons.
38. Press **ENTER** to complete date entry (the system will store it).
39. The display will show **"FINISHED!"**
40. Press the ESC button to exit the **"CALIBRATE LOAD"** option.
41. Close the hydraulic/electric cabinet.
42. The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department:

Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

IMPORTANT

Replaced parts MUST be sent back to Skyjack Parts Department in order to comply with the warranty.

Electrical Schematic



Note

For the latest schematic, please refer to the Skyjack web site: www.skyjackinc.com

Attach this schematic to the Load Sensing Operating Manual

Note

Attach this schematic to the Load Sensing Operating Manual



SJ-RT 9250 Series

Load Sensing System Retrofit Procedure

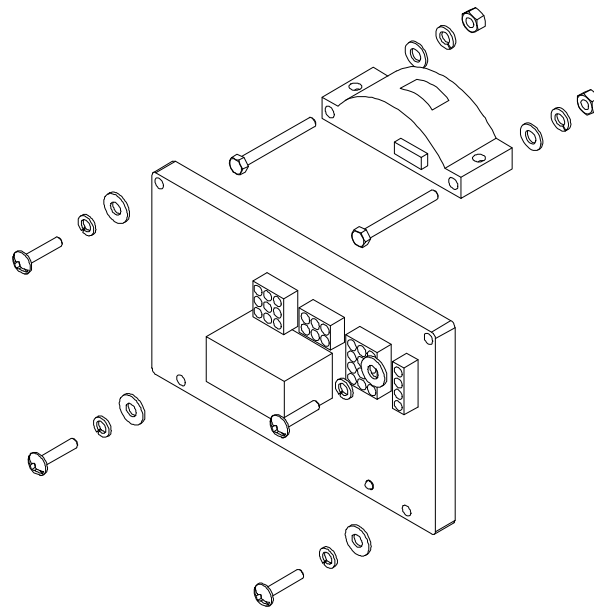


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Harness Replacement Procedure	8
Calibration Procedure	10
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WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform



WARNING

Read all instructions closely before attempting each step of the installation.

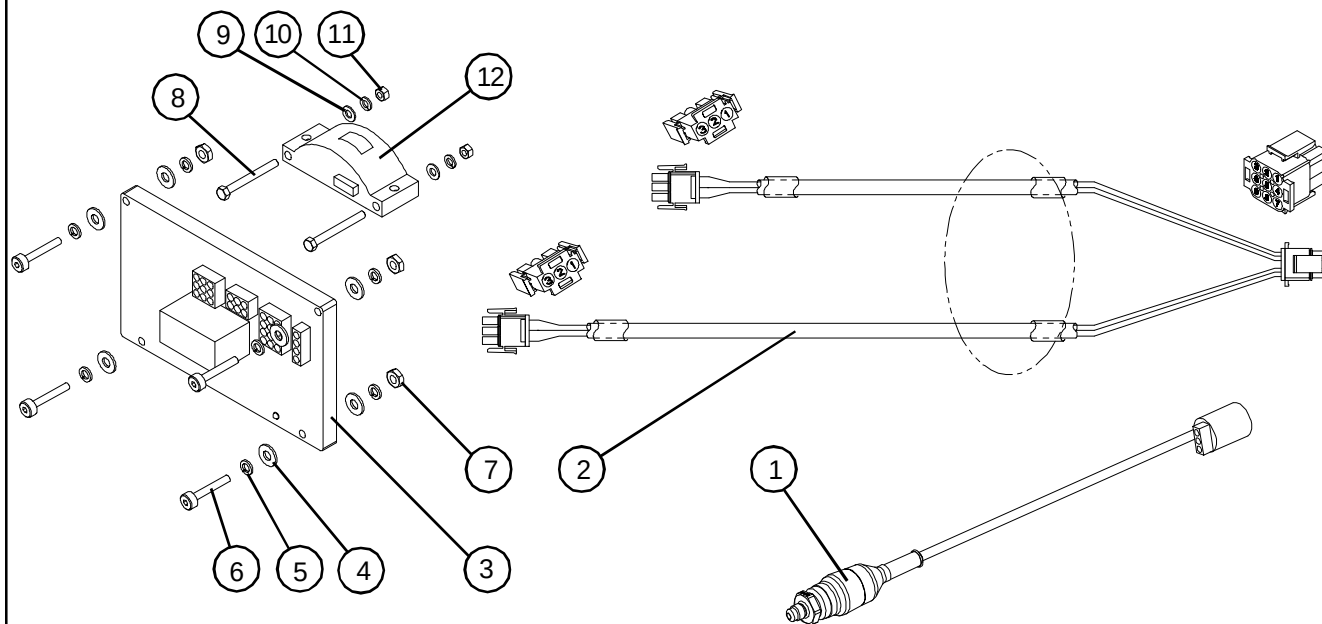
Table 1-1

Machine	Number of Extension Decks	Base Curve	Group Code
9250	No Extension Deck	52	10
9250	1 Powered Extension Deck	53	10
9250	2 Powered Extension Decks	54	10

Parts Inventory

Note

If You Have Not Received The Complete Part Inventory, Contact SKYJACK SERVICE DEPARTMENT At (44) 1691-676 236 Or Fax (44) 1691-676 238 To Have The Missing Parts Sent To You. DO NOT Attempt Installation Without The Complete Package.



11427AA

Index No.	Skyjack Part No.	Qty.	Description
A	134490	1	KIT, Load Sensing Retrofit
1	134432	1	• TRANSDUCER, Pressure
2	134438	1	• HARNESS, Angle/Pressure Sensor
3	130439	1	• CONTROLLER MODULE, Overload Sensing
4	104694	8	• WASHER, Flat #10 S.A.E.
5	104185	8	• WASHER, Lock# 10 NOM.
6	122498	4	• SCREW, Socket Hd #10-32 x 1"
7	104003	4	• NUT, Hex #10-32
8	103862	2	• BOLT, 0.25" - 20 x 2.25 GR. 5
9	103995	2	• WASHER, Flat 0.25" S.A.E.
10	104000	2	• WASHER, Lock 0.25"
11	103980	2	• NUT, 0.25" - 20 GR. 5
12	130440	1	• TRANSDUCER, Angle
13	102891	12	• TIEWRAP, 7 1/4" Black
14	102893	24	• TIEWRAP, 13 3/4" Black
15	134491	1	• RETROFIT PROCEDURE

Important

In order to comply with the warranty, replaced parts MUST be sent back to Skyjack Parts Department:

**Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry,
Shropshire, U.K**

Control Module Replacement Procedure:



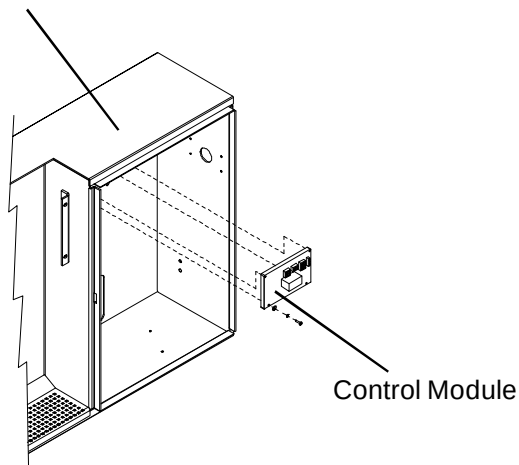
Only trained and authorized personnel shall be permitted to service an aerial platform



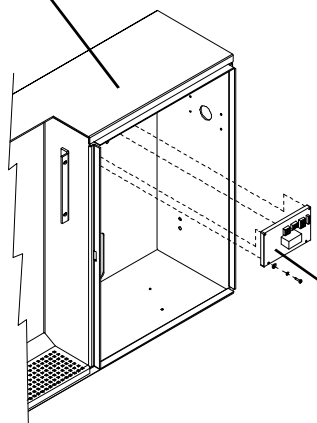
Read all instructions closely before attempting each step of the installation.

1. Ensure the aerial platform is parked on a level surface.
2. Pull out emergency stops and turn the main disconnect to the ON position.
3. Elevate the platform and place the maintenance support bar into position then lower the scissor onto the maintenance support bar.
4. Push in emergency stops and turn the main disconnect to the OFF position. Lock the switch to prevent unauthorized use during this procedure.
5. Locate the hydraulic/electric side cabinet open the cabinet door.
6. Locate the control module inside the cabinet.

Electric/Hydraulic cabinet



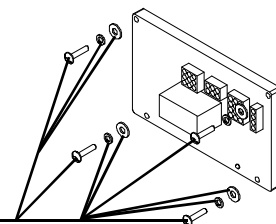
Electric/Hydraulic cabinet



Control Module

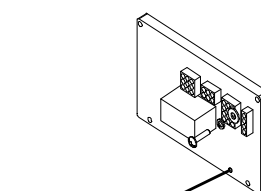
7. Disconnect all connectors from the control module and lay them aside.
8. Remove the 4 mounting screws that hold the control module in place.

Mounting Hardware



9. Replace the existing control module, part number 130439AB with the new control module part number 130439AC.

Note
130439AC is also identifiable by the presence of a red (L.E.D.).



L.E.D.

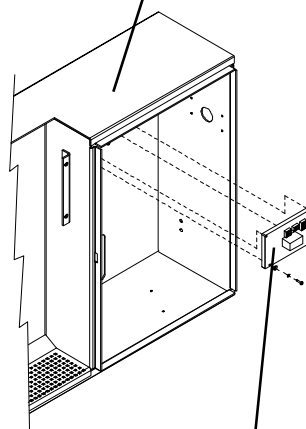
10. Mount the new control module using the hardware provided in the kit.
11. Make sure to use a screw, flat washer and lock washer.



Caution

Do Not Over Tighten Fasteners.

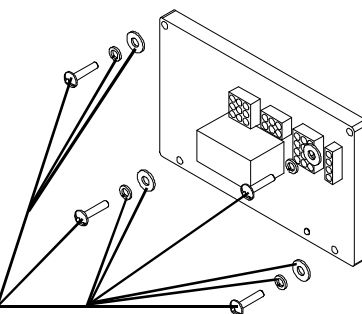
Electric/Hydraulic cabinet



Control Module

12. Tighten the screw until the lock washer flattens.

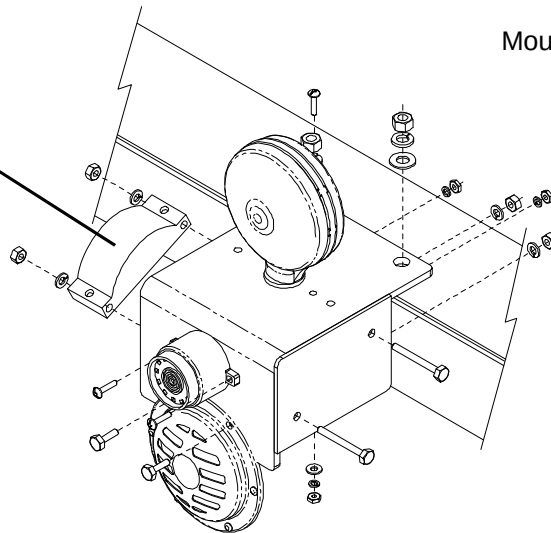
Mounting Hardware



Angle Transducer Replacement Procedure:

1. Locate the angle transducer. It is located at the first level scissor arm.
2. Disconnect the harness connector from the transducer and lay it aside.
3. Remove the two bolts holding the transducer on the scissor arm.

Angle Transducer



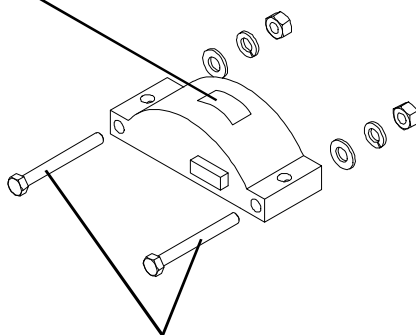
Mounting Hardware

4. Replace the existing transducer, with the new transducer, part number **130440AB**.

Note

The new transducer, part number 130440AB is also identifiable by the presence of a label on top of the transducer.

Label



Mounting Hardware

5. Mount the new transducer using the hardware provided in the kit.
6. Make sure to use a bolt, flat washer, lock washer and a nut.



Caution

Do Not Over Tighten Fasteners.

7. Tighten the bolt until the lock washer flattens.

Harness/Pressure Transducer Replacement Procedure:

1. Locate the pressure transducer. It is located on the block manifold at the bottom of the **lower** cylinder.
2. Disconnect the harness connector from the pressure transducer and lay it aside.
3. Replace the existing pressure transducer with the new pressure transducer, part number 134432AA. **The torque spec for an o-ring seal pressure transducer is 18-20 Nm.**

Note

The new pressure transducer, part number 134432AA is also identifiable by the presence of a short harness and a connector attached to the pressure transducer.

4. Remove the existing harness from pressure transducer and angle transducer to control module by cutting all the tie wraps.
5. Attach the new harness in place of the existing harness and insert all the connectors into the their corresponding slots.
6. Use tie wraps as required to secure the new harness.

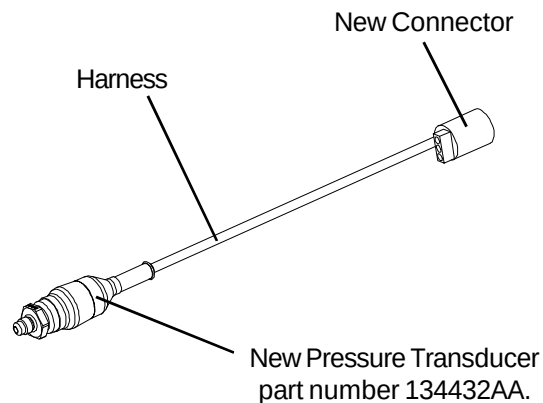
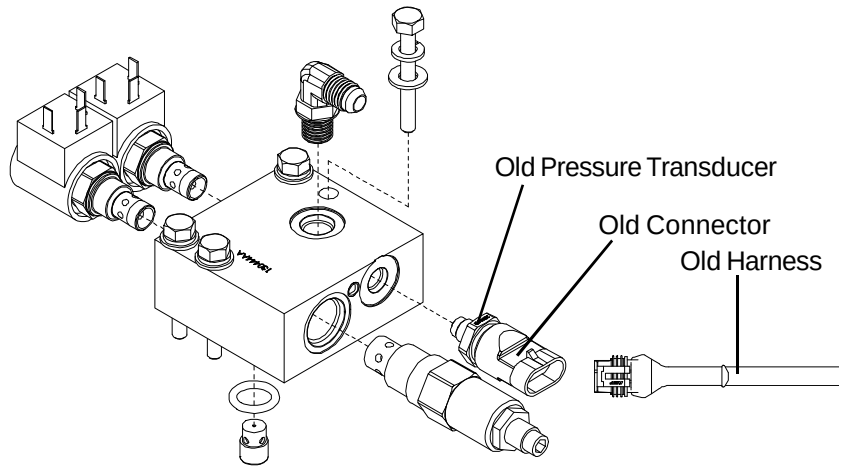


Figure 1. Locked Position

Note
The plug has to be secured tightly to the socket by pressing it all the way down and ensuring that the two locking latches snap onto the two locking tabs in the socket.
Confirm that it is locked by trying to pull the plug out from the socket.



Figure 2. Unlocked Position

7. Make sure all connections are tight and the harness is properly secured.

Important
The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department.
Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

8. Pull out emergency stops and turn the main disconnect to the ON position.
9. Elevate the platform and place the maintenance support bar into its rest position.
10. Lower the platform fully.
11. Follow the module calibration procedure on the following pages.

Calibration Procedure:



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.

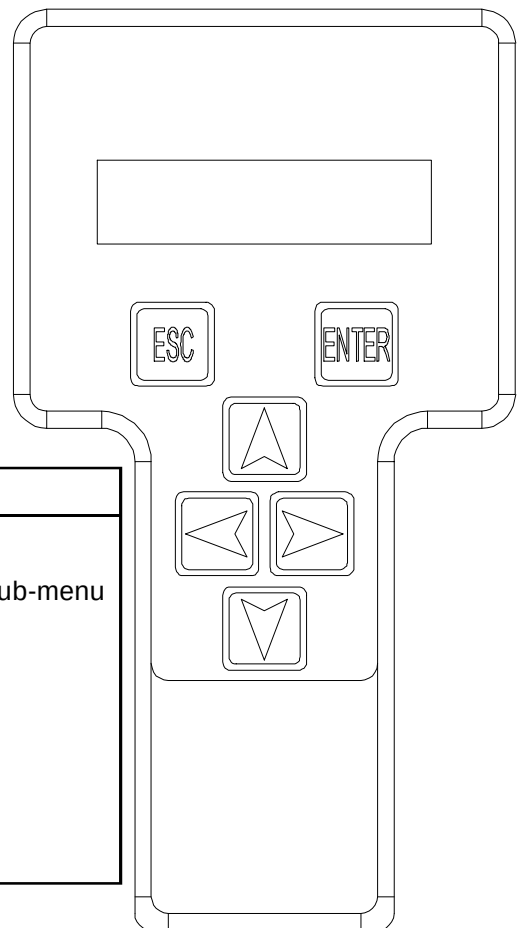


WARNING

Read all instructions closely before attempting each phase of this Procedure.

The following equipment is needed to complete this procedure.

- Easy-Cal Hand Held Calibration/Diagnostic Tool



SYMBOL	KEY FUNCTIONS
 	ESC/ENTER BUTTONS To move back and forth between menu and sub-menu
 	LEFT/RIGHT BUTTONS Select menus and setting to be adjusted
 	UP/DOWN BUTTONS Adjust setting values

1. Move the aerial platform to a test area where the platform can be elevated to its maximum working height and reach.
2. Ensure the aerial platform is parked on a firm, level surface.

IMPORTANT

Each phase must be completed before the next phase can be carried out.
All phases must be completed before the aerial platform can be operated.

IMPORTANT

Always follow the instructions of the [Calibration](#) instrument.

IMPORTANT

Make sure the aerial platform is on BASE mode.

3. Connect the Easy-Cal tool to the P1 connector on the CONTROL MODULE.
4. **The display will show “Help: Press Enter”.**
By using Left/Right buttons, select the “Access Level (?)” from the menu and press the **ENTER** button.

**Contact SKYJACK SERVICE DEPARTMENT At
(44) 1691-676 236 for your Access Level Code Number.**

5. **The display will show “Access Level Code (xxxx)”.**
By using the Up/Down buttons, enter the Access Level Code (xxxx) followed by pressing the **ENTER** button.
6. **The display will show “Access Level 2”.**
By using Left/Right buttons, select the **“Setups”** from the menu and press the **ENTER** button.
7. **The display will show “Machine Defaults”.**
Select the **“Machine Defaults”** from the menu and press the **ENTER** button.
8. **The display will show “Defaults, 0 = Custom”.**
By using Left/Right buttons, select the **“X = Group Code”** from the menu and press the **ENTER** button.
9. **The display will show “X=GROUP CODE”. (For group Code Refer to Table 1-1)**
By using the Up/Down buttons, enter the **“Group Code (?)”** then by using Left/Right buttons, select the **“Curve”** from the menu.
10. **The display will show “X=CURVE”. (For Curve Code Refer to Table 1-1)**
By using the Up/Down buttons, enter the **“Curve Code (?)”** followed by pressing the **ESCAPE** button.
11. **The display will show “Machine Defaults”.**
By using Left/Right buttons, select the **“Tilt Setups”** from the menu and press the **ENTER** button.

12. The display will show **"Tilt Setups: Calibrate Level"**.
Select the **"Tilt Setups: Calibrate Level"** from the menu and press the **ENTER** button.
13. The display will show **"Calibrate Level: Yes: Enter, No: ESC"**.
Select the **"Yes"** from the menu by press the **ENTER** button.
14. The display will show **"Calibrate Level: Tilt 0.0' , 0.0"**.
Select the **"ESCAPE"** from the menu once.
15. The display will show **"Tilt Setups Calibrate Level"**.
Select the **"ESCAPE"** from the menu once again.
16. The display will show **"Setups Tilt Setups"**.
By using Left/Right buttons, select the **"Load Setups"** from the menu and press the **ENTER** button.
17. The display will show **"Load Setups: Calibrate Load"**.
Select the **"Load Setups: Calibrate Load"** from the menu and press the **ENTER** button.
18. At this point, elevate the platform to full height, check the harness and making sure it is not stretched too tight and then fully lower the platform.
19. The display will show **"Calibrate Load: Platform Down?"**.
Asking for confirmation that the platform is fully lowered?
Check that the platform is fully lowered then press the **ENTER** button to confirm.
20. The display will show **"Calibrate: Loaded Empty? No"**.
Asking for confirmation that the platform is empty?
Check that the platform is empty?
21. By using the Up/Down buttons, enter the **"Yes"** followed by pressing the **ENTER** button.
22. The display will show **"Calibrate Load: Please Lift . . ."**.
Waiting for the lift switch to be activated.
23. Hold the lift switch and keep holding it until the platform is fully elevated.

IMPORTANT

If the lift switch is released earlier than full-height position, the calibration will have to be aborted and repeated from the beginning!
--

24. When the system detects the lift switch closed, the display will show **"Calibrate Load: Lift Empty"**.
25. After a delay, the system will stop the platform lifting and will take height & pressure measurements; the display will show **"MEASURING # xx"** When the measurements have been taken, the platform will resume lifting.

Note

The lifting ... stopping ... measuring ... lifting process will continue until the platform reaches full height.
--

26. When the platform reaches full height release the lift switch.
27. The display will briefly show **"TOTAL DATA: 04"** to indicate the number of measurements taken.
28. The display will show **"Calibrate Load: Please Lower . . . "**.

IMPORTANT

If the lower switch is released earlier than full-lowered position, the calibration will have to be aborted and repeated from the beginning!
--

29. Hold the lower switch and keep holding it until the platform is fully lowered.
30. When the system detects the lower switch closed, the display will show **"Calibrate Load: Lower Empty"**.
31. After a delay, the system will stop the platform lowering and will take height & pressure measurements; the display will show **"MEASURING #xx"** When the measurements have been taken, the platform will resume lowering.

Note

The lowering ... stopping ... measuring ... lowering process will continue until the platform is fully lowered.

32. When the platform is fully lowered (and height 0% is displayed), release the lower switch.
33. The display will show briefly **"TOTAL DATA: 04"** to indicate the number of measurements taken.
34. The display will show **"Calibrate Load: Caldate: mm/dd/yy"**.
It is recommended that the current date be entered here to provide easy tracking of the date of last calibration. The current date must be entered using the LEFT/RIGHT and UP/DOWN buttons.
35. Press **ENTER** to complete date entry (the system will store it).
36. The display will show **"FINISHED!"**
37. Press the ESC button to exit the **"CALIBRATE LOAD"** option.
38. Close the hydraulic/electric cabinet.
39. The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department:

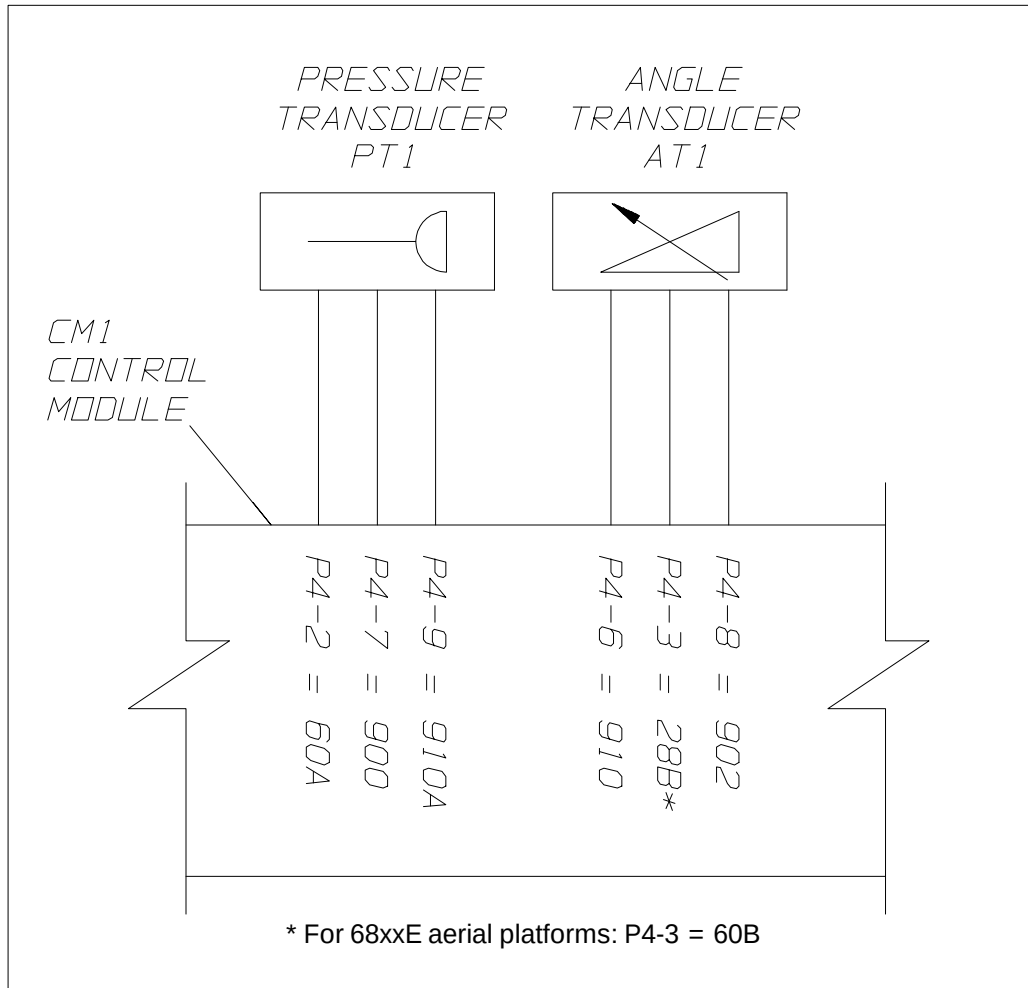
Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

IMPORTANT

Replaced parts MUST be sent back to Skyjack Parts Department in order to comply with the warranty.

Note

Electrical Schematic



Note

For the latest schematic, please refer to the Skyjack web site: www.skyjackinc.com

Attach this schematic to the Load Sensing Operating Manual

Note

Attach this schematic to the Load Sensing Operating Manual



SJ-III 3226 & 3226M Series

Load Sensing System Retrofit Procedure

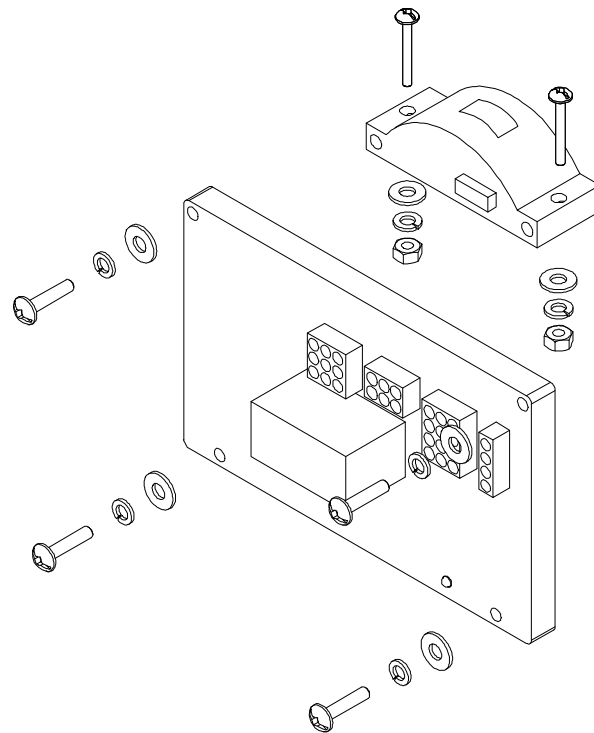


Table Of Contents

<u>Description</u>	<u>Page No.</u>
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Control Module Replacement Procedure	4
Angle Transducer Replacement Procedure	7
Harness Replacement Procedure	8
Calibration Procedure	10



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform



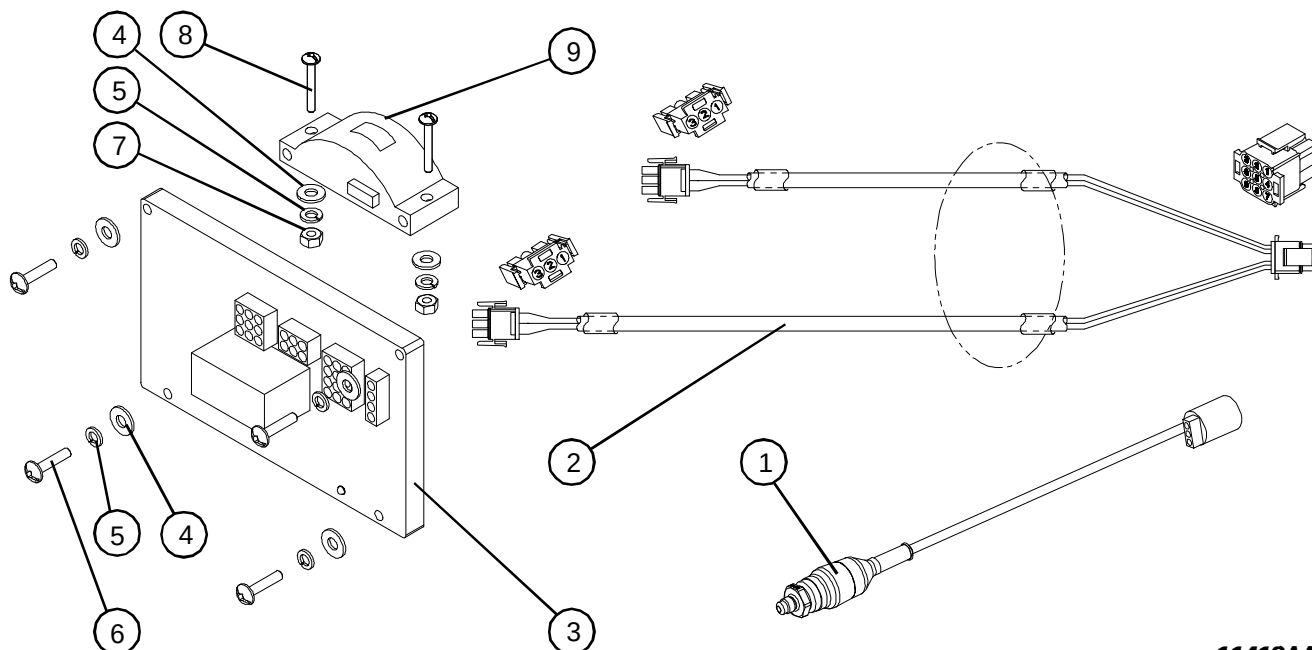
WARNING

Read all instructions closely before attempting each step of the installation.

Parts Inventory

Note

If You Have Not Received The Complete Part Inventory, Contact SKYJACK SERVICE DEPARTMENT At (44) 1691-676 236 Or Fax (44) 1691-676 238 To Have The Missing Parts Sent To You. DO NOT Attempt Installation Without The Complete Package.



11419AA

Index No.	Skyjack Part No.	Qty.	Description
A	134535	1	KIT, Load Sensing Retrofit
1	134543	1	• TRANSDUCER, Pressure
2	134437	1	• HARNESS, Angle/Pressure Sensor
3	130439	1	• CONTROLLER MODULE, Overload Sensing
4	104694	6	• WASHER, Flat #10 S.A.E.
5	104185	6	• WASHER, Lock# 10 NOM.
6	105621	4	• SCREW, #10-32 x 1" Machine
7	104003	2	• NUT, #10-32 Gr. B Machine
8	122498	2	• SCREW, #10-32 x 1.25" Machine
9	130440	1	• TRANSDUCER, Angle
10	102891	24	• TIEWRAP, 7 1/4" Black
11	102893	12	• TIEWRAP, 13 3/4" Black
12	134485	1	• JUMPER, Insulated Alligator Clip
13	134536	1	• RETROFIT PROCEDURE

Important

In order to comply with the warranty, replaced parts MUST be sent back to Skyjack Parts Department:

**Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry,
Shropshire, U.K**

Control Module Replacement Procedure:

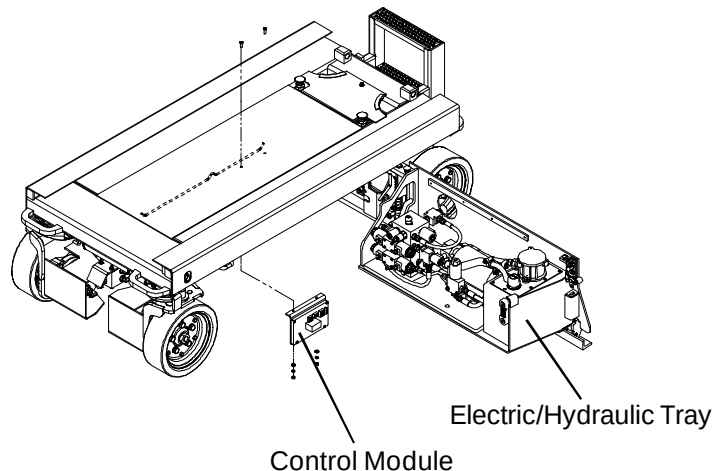


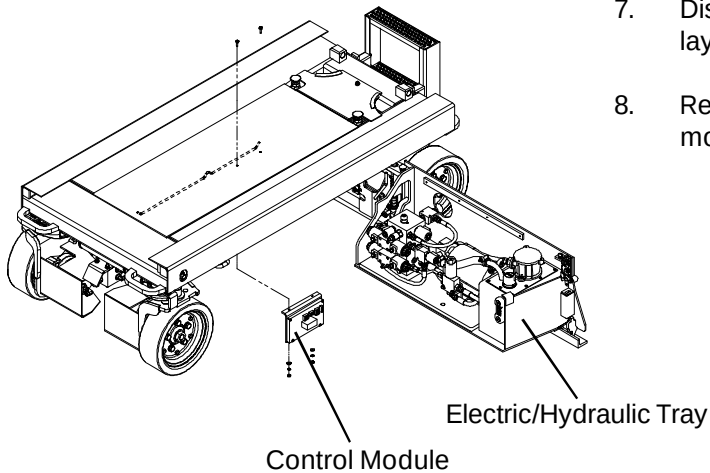
Only trained and authorized personnel shall be permitted to service an aerial platform.



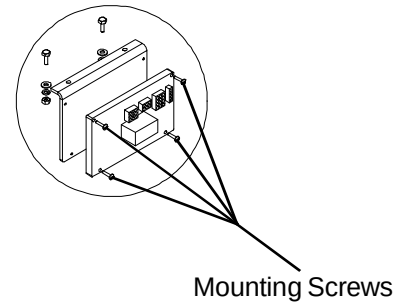
Read all instructions closely before attempting each step of the installation.

1. Ensure the aerial platform is parked on a level surface.
2. Pull out emergency stops and turn the main disconnect to the ON position.
3. Elevate the aerial platform and place the maintenance support bar into position then lower the scissor onto the maintenance support bar.
4. Push in emergency stops and turn the main disconnect to the OFF position. Lock the switch to prevent unauthorized use during this procedure.
5. Locate the hydraulic/electric tray open the tray.
6. Locate the control module under the aerial platform.



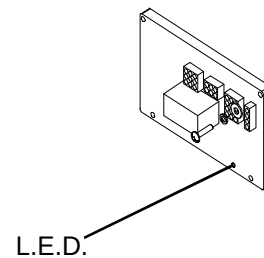


7. Disconnect all connectors from the control module and lay them aside.
8. Remove the 4 mounting screws that hold the control module in place.

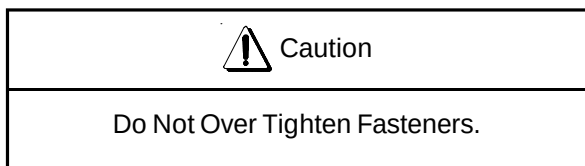


9. Replace the existing control module, part number 130439AB with the new control module part number 130439AC.

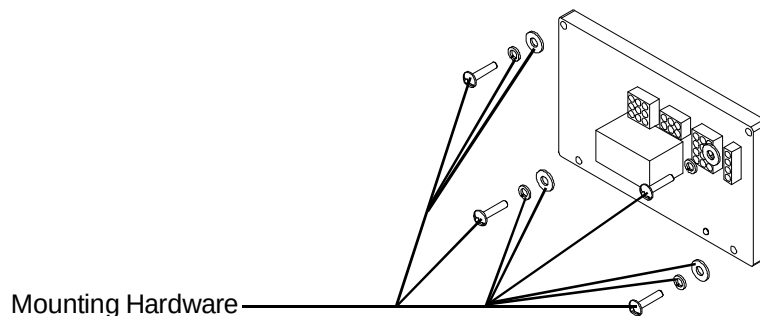
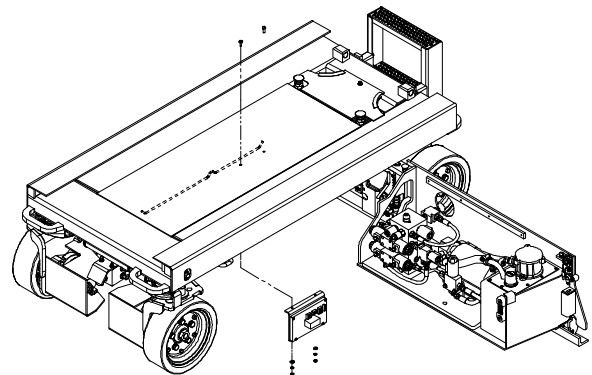
Note
130439AC is also identifiable by the presence of a red (L.E.D.).



10. Make sure the control module is facing the electric/hydraulic tray.
11. Mount the new control module using the hardware provided in the kit.
12. Make sure to use a screw, flat washer and lock washer.

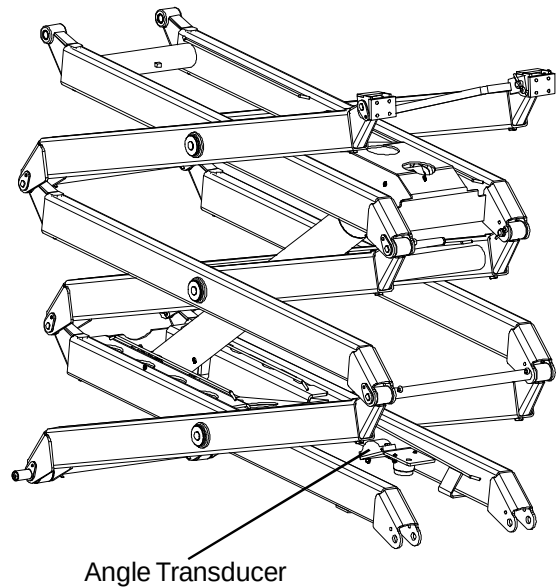
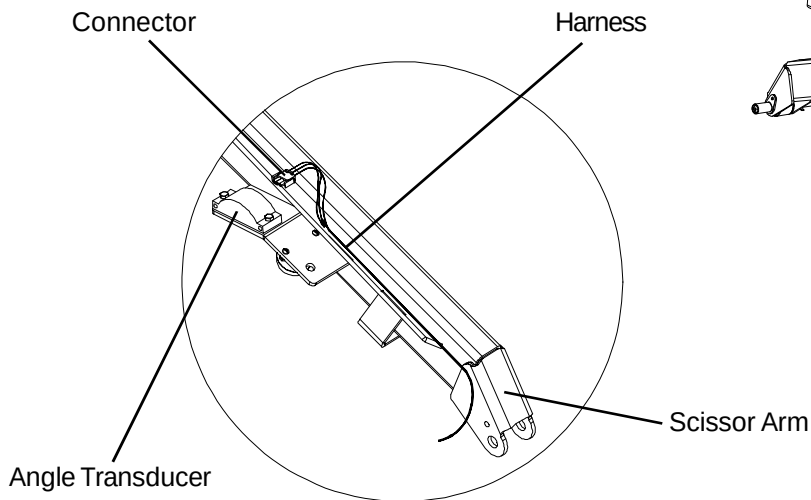


13. Tighten the screw until the lock washer flattens.



Angle Transducer Replacement Procedure:

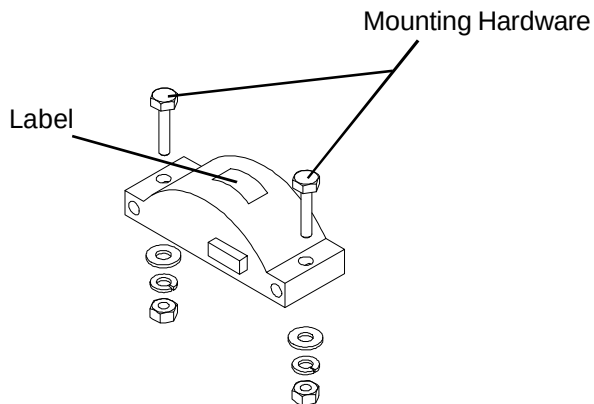
1. Locate the angle transducer. It is located at the first level scissor arm.
2. Disconnect the harness connector from the transducer and lay it aside.
3. Remove the two bolts holding the transducer on the scissor arm.



4. Replace the existing transducer, with the new transducer, part number **130440AB**.

Note

The new transducer, part number 130440AB is also identifiable by the presence of a label on top of the transducer.



5. Mount the new transducer using the hardware provided in the kit.
6. Make sure to use a bolt, flat washer, lock washer and a nut.



Caution

Do Not Over Tighten Fasteners.

7. Tighten the bolt until the lock washer flattens.

Harness/Pressure Transducer Replacement Procedure:

1. Locate the pressure transducer. It is located on the block manifold at the bottom of the lower cylinder.
2. Disconnect the harness connector from the pressure transducer and lay it aside.
3. Replace the existing pressure transducer with the new pressure transducer, part number 134543AA. The torque spec for an o-ring seal pressure transducer is 18-20 Nm.

Note

In some models, for easy access to the pressure transducer, the holding valve coil has to be removed, set aside and reinstalled once the new pressure transducer has been attached.

Note

The new pressure transducer, part number 134543AA is also identifiable by the presence of a short harness and a connector attached to the pressure transducer.

4. Remove the existing harness from pressure transducer and angle transducer to control module by cutting all the tie wraps.
5. Attach the new harness in place of the existing harness and insert all the connectors into their corresponding slots.

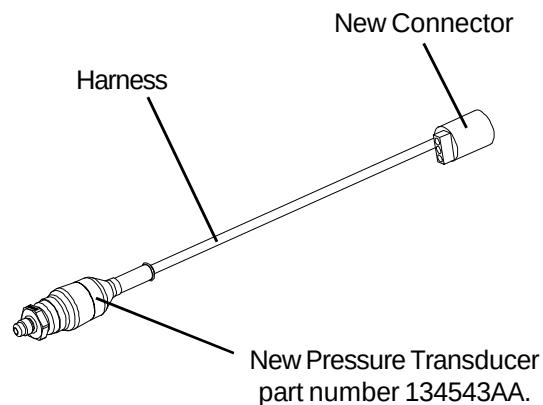
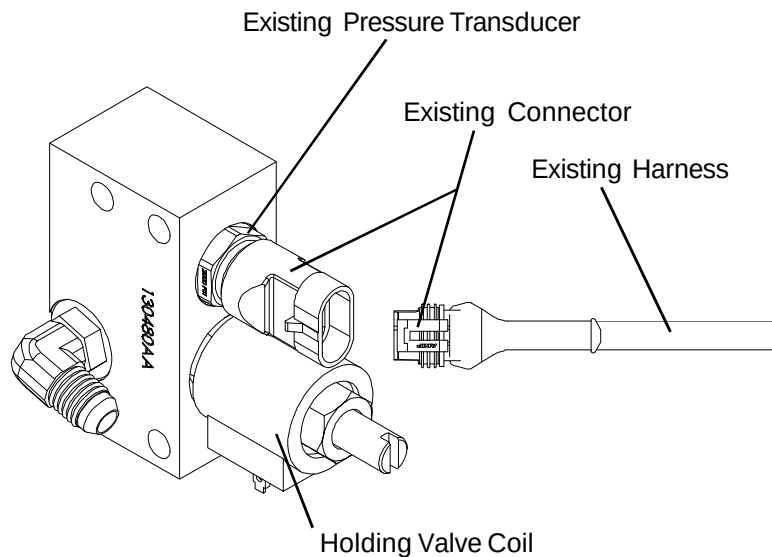




Figure 1. Locked Position

Note

The plug has to be secured tightly to the socket by pressing it all the way down and ensuring that the two locking latches snap onto the two locking tabs in the socket.

Confirm that it is locked by trying to pull the plug out from the socket.



Figure 2. Unlocked Position

6. Reinstall any cables that had been disconnected during this procedure.
7. Use tie wraps as required to secure the new harness.
8. Make sure all connections are tight and the harness is properly secured.

Important
The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department. Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

9. Pull out emergency stops and turn the main disconnect to the ON position.
10. Elevate the aerial platform and place the maintenance support bar into its rest position.
11. Lower the aerial platform fully.
12. Follow the module calibration procedure on the following pages.

Calibration Procedure:



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.

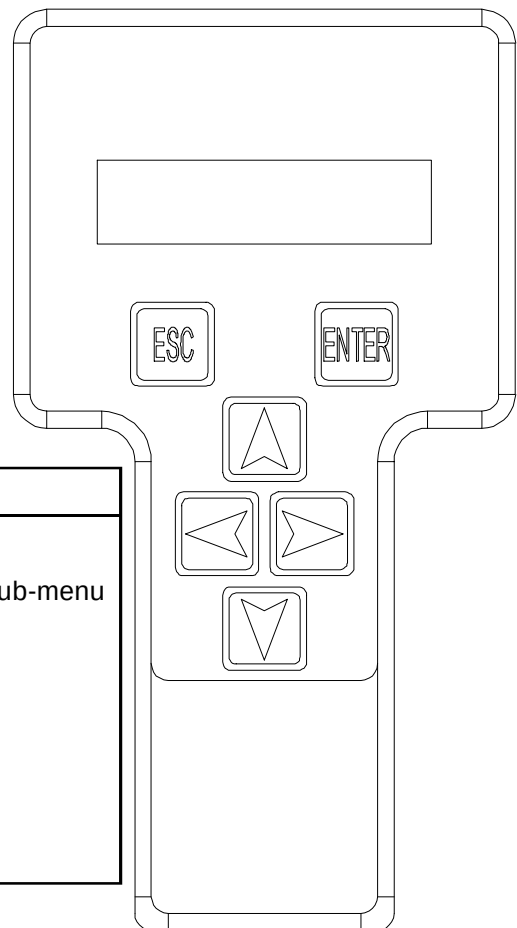


WARNING

Read all instructions closely before attempting each phase of this Procedure.

The following equipment is needed to complete this procedure.

- Easy-Cal Hand Held Calibration/Diagnostic Tool
- **JUMPER, Insulated Alligator Clip**



SYMBOL	KEY FUNCTIONS
 	ESC/ENTER BUTTONS To move back and forth between menu and sub-menu
 	LEFT/RIGHT BUTTONS Select menus and setting to be adjusted
 	UP/DOWN BUTTONS Adjust setting values

1. Move the aerial platform to a test area where the platform can be elevated to its maximum working height and reach.
2. Ensure the aerial platform is parked on a firm, level surface.

IMPORTANT

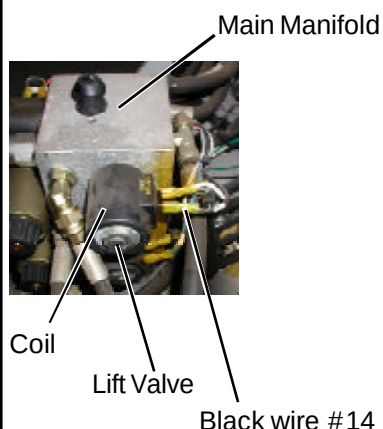
Each phase must be completed before the next phase can be carried out.
All phases must be completed before the aerial platform can be operated.

IMPORTANT

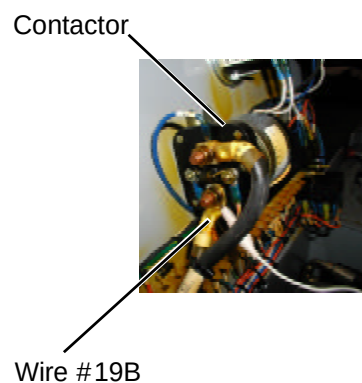
Always follow the instructions of the [Calibration](#) instrument.

IMPORTANT

Make sure the aerial platform is on BASE mode.



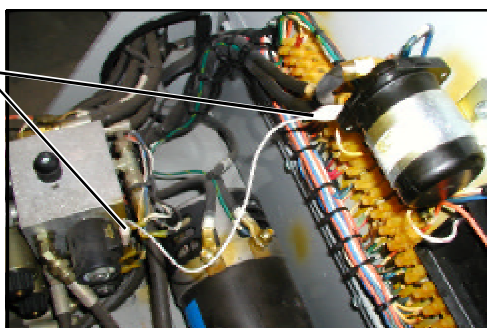
3. Locate the main manifold inside the hydraulic/electric tray.
4. Disconnect the black wire #14 from the lift coil.
5. Locate the contactor on the electrical panel assembly.
6. The jumper connection must be connected between the contactor (wire #19B) and the lift coil (instead of the black wire #14).



Note

To ensure a good and clear contact, clean the wire terminals before attaching the jumper clip.

JUMPER, Insulated Alligator Clip



7. Connect the Easy-Cal tool to the P1 connector on the CONTROL MODULE.
8. **The display will show "Help: Press Enter".**
By using Left/Right buttons, select the "Access Level (?)" from the menu and press the **ENTER** button.

**Contact SKYJACK SERVICE DEPARTMENT At
(44) 1691-676 236 for your Access Level Code Number.**
9. **The display will show "Access Level Code (xxxx)".**
By using the Up/Down buttons, enter the Access Level Code (xxxx) followed by pressing the **ENTER** button.
10. **The display will show "Access Level 2".**
By using Left/Right buttons, select the **"Setups"** from the menu and press the **ENTER** button.
11. **The display will show "Machine Defaults".**
Select the **"Machine Defaults"** from the menu and press the **ENTER** button.
12. **The display will show "Defaults, 0 = Custom".**
By using Left/Right buttons, select the **"X = Group Code"** from the menu and press the **ENTER** button.
13. **The display will show "X=GROUP CODE".**
By using the Up/Down buttons, enter the **"Group Code (3)"** then by using Left/Right buttons, select the **"Curve"** from the menu.
14. **The display will show "X=CURVE".**
By using the Up/Down buttons, enter the **"Curve Code (5)"** followed by pressing the **ESCAPE** button.
15. **The display will show "Machine Defaults".**
By using Left/Right buttons, select the **"Tilt Setups"** from the menu and press the **ENTER** button.
16. **The display will show "Tilt Setups: Calibrate Level".**
Select the **"Tilt Setups: Calibrate Level"** from the menu and press the **ENTER** button.
17. **The display will show "Calibrate Level: Yes: Enter, No: ESC".**
Select the **"Yes"** from the menu by press the **ENTER** button.
18. **The display will show "Calibrate Level: Tilt 0.0' , 0.0".**
Select the **"ESCAPE"** from the menu once.
19. **The display will show "Tilt Setups Calibrate Level".**
Select the **"ESCAPE"** from the menu once again.
20. **The display will show "Setups Tilt Setups".**
By using Left/Right buttons, select the **"Load Setups"** from the menu and press the **ENTER** button.
21. **The display will show "Load Setups: Calibrate Load".**
Select the **"Load Setups: Calibrate Load"** from the menu and press the **ENTER** button.
22. At this point, elevate the aerial platform at full height, check the harness and making sure it is not stretched tight, then lower down the platform.
23. **The display will show "Calibrate Load: Platform Down?".**
Asking for confirmation that the platform is fully lowered?
Check that the platform is fully lowered then press the **ENTER** button to confirm.

24. The display will show **"Calibrate: Loaded Empty? No"**.
Asking for confirmation that the platform is empty?
Check that the platform is empty?
25. By using the Up/Down buttons, enter the **"Yes"** followed by pressing the **ENTER** button.
26. The display will show **"Calibrate Load: Please Lift . . ."**.
Waiting for the lift switch to be activated.
27. Hold the lift switch and keep holding it until the platform is fully elevated.

IMPORTANT

If the lift switch is released earlier than full-height position, the calibration will have to be aborted and repeated from the beginning!

28. When the system detects the lift switch closed, the display will show **"Calibrate Load: Lift Empty"**.
29. After a delay, the system will stop the platform lifting and will take height & pressure measurements; the display will show **"MEASURING # xx"** When the measurements have been taken, the platform will resume lifting.

Note

The lifting ... stopping ... measuring ... lifting process will continue until the platform reaches full height.

30. When the platform reaches full height release the lift switch.
31. The display will briefly show **"TOTAL DATA: 04"** to indicate the number of measurements taken.
32. The display will show **"Calibrate Load: Please Lower . . ."**.

IMPORTANT

If the lower switch is released earlier than full-lowered position, the calibration will have to be aborted and repeated from the beginning!

33. Hold the lower switch and keep holding it until the platform is fully lowered.
34. When the system detects the lower switch closed, the display will show **"Calibrate Load: Lower Empty"**.
35. After a delay, the system will stop the platform lowering and will take height & pressure measurements; the display will show **"MEASURING #xx"** When the measurements have been taken, the platform will resume lowering.

Note

The lowering ... stopping ... measuring ... lowering process will continue until the platform is fully lowered.

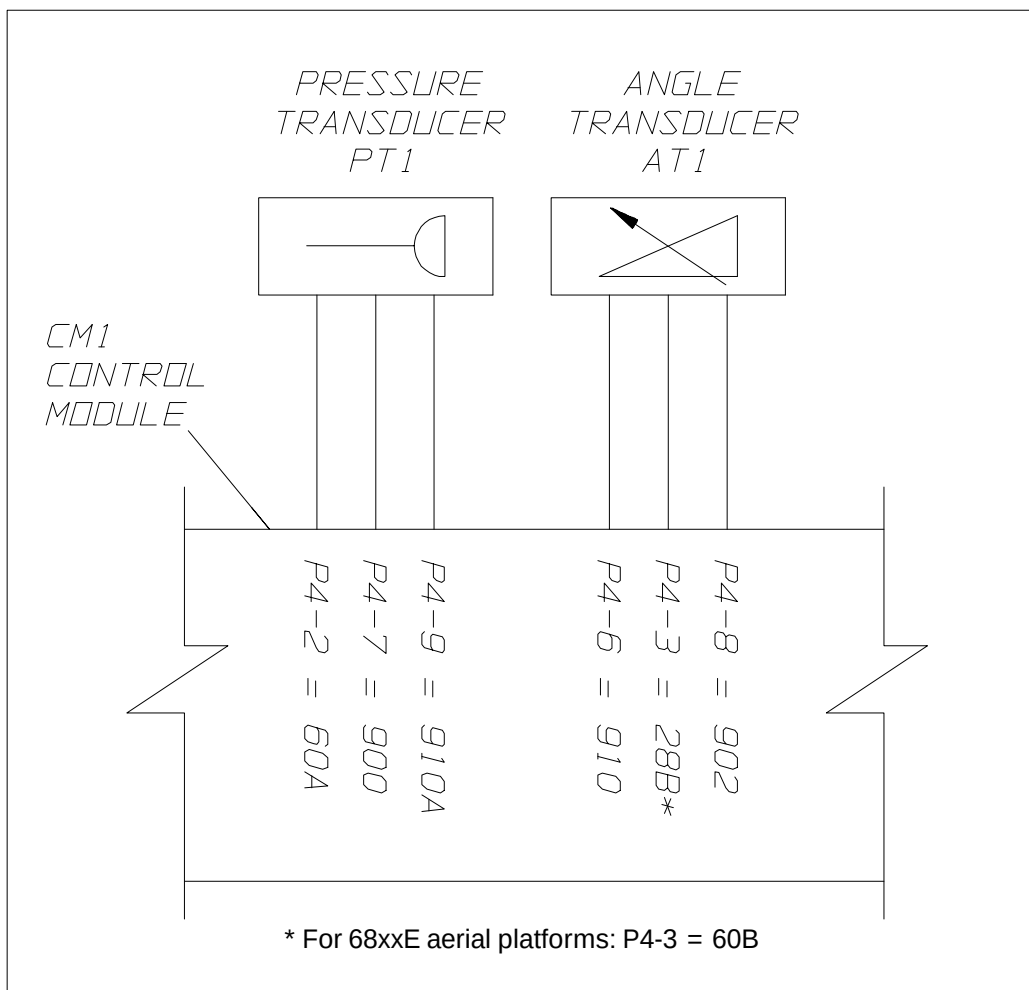
36. When the platform is fully lowered (and height 0% is displayed), release the lower switch.
37. The display will show briefly **"TOTAL DATA: 04"** to indicate the number of measurements taken.
38. The display will show **"Calibrate Load: Caldate: mm/dd/yy"**.
It is recommended that the current date be entered here to provide easy tracking of the date of last calibration. The current date must be entered using the LEFT/RIGHT and UP/DOWN buttons.
39. Press **ENTER** to complete date entry (the system will store it).
40. The display will show **"FINISHED!"**
41. Press the ESC button to exit the **"CALIBRATE LOAD"** option.
42. Remove the jumper wire and re-connect the black wire #14 to the coil removed earlier.
43. Close the hydraulic/electric tray.
44. The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department:

Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

IMPORTANT

Replaced parts **MUST** be sent back to Skyjack Parts Department in order to comply with the warranty.

Electrical Schematic



Note

For the latest schematic, please refer to the Skyjack web site: www.skyjackinc.com

Attach this schematic to the Load Sensing Operating Manual



SJ-III 3215 Series

Load Sensing System Retrofit Procedure

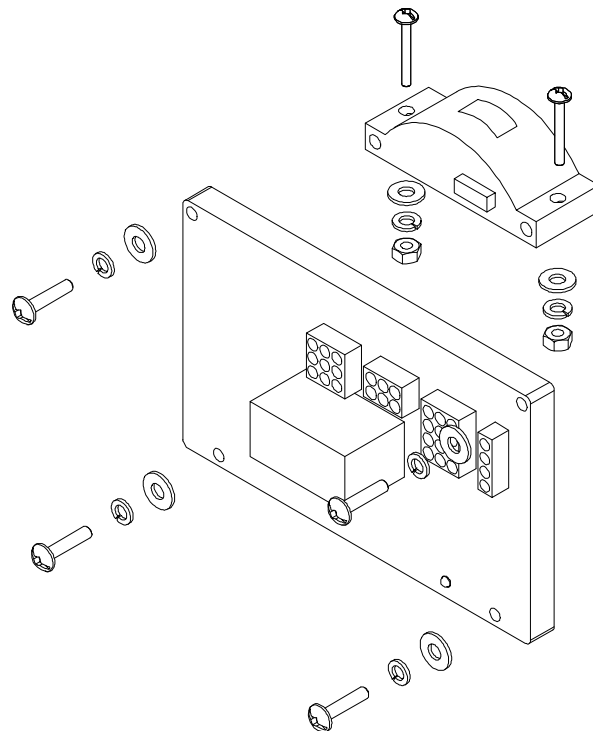


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Control Module Replacement Procedure	4
Angle Transducer Replacement Procedure	7
Harness Replacement Procedure	8
Calibration Procedure	10



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform



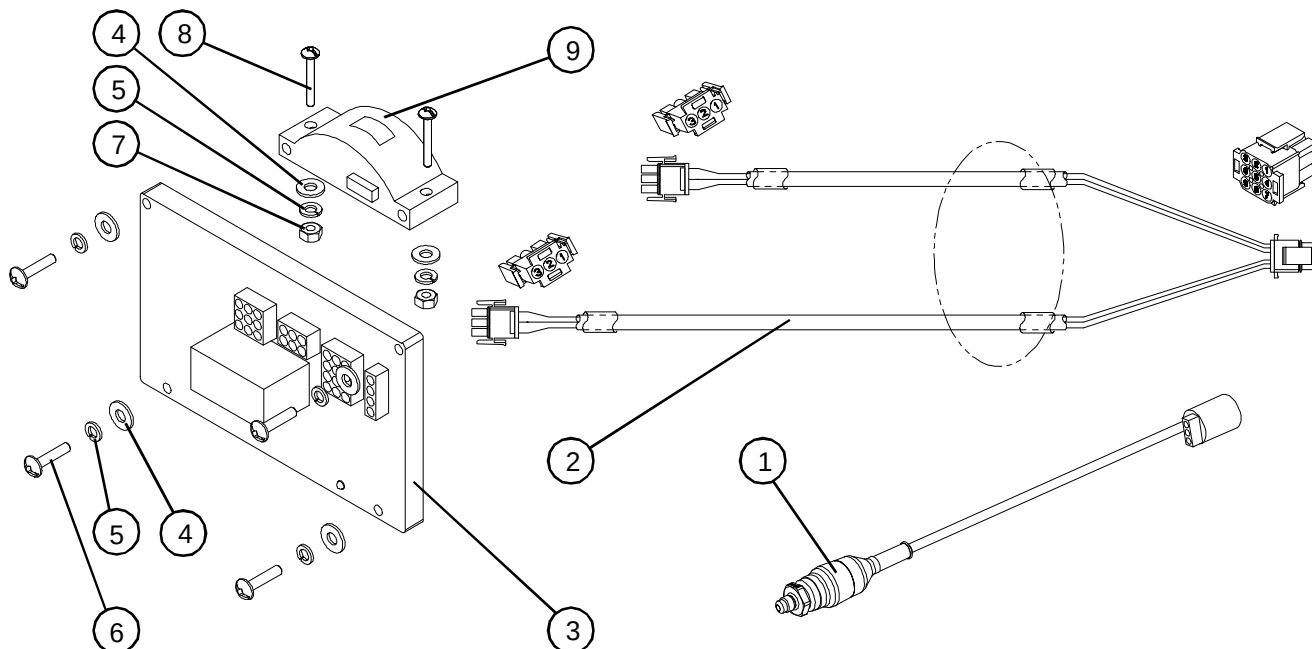
WARNING

Read all instructions closely before attempting each step of the installation.

Parts Inventory

Note

If You Have Not Received The Complete Part Inventory, Contact SKYJACK SERVICE DEPARTMENT At (44) 1691-676 236 Or Fax (44) 1691-676 238 To Have The Missing Parts Sent To You. DO NOT Attempt Installation Without The Complete Package.



11419AA

Index No.	Skyjack Part No.	Qty.	Description
A	134464	1	KIT, Load Sensing Retrofit
1	134431	1	• TRANSDUCER, Pressure
2	134436	1	• HARNESS, Angle/Pressure Sensor
3	130439	1	• CONTROLLER MODULE, Overload Sensing
4	104694	6	• WASHER, Flat #10 S.A.E.
5	104185	6	• WASHER, Lock# 10 NOM.
6	105621	4	• SCREW, #10-32 x 1" Machine
7	104003	2	• NUT, #10-32 Gr. B Machine
8	122498	2	• SCREW, #10-32 x 1.25" Machine
9	130440	1	• TRANSDUCER, Angle
10	102891	24	• TIEWRAP, 7 1/4" Black
11	102893	12	• TIEWRAP, 13 3/4" Black
12	134485	1	• JUMPER, Insulated Alligator Clip
13	134473	1	• RETROFIT PROCEDURE

Important

In order to comply with the warranty, replaced parts MUST be sent back to Skyjack Parts Department:

**Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry,
Shropshire, U.K**

Control Module Replacement Procedure:



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform



WARNING

Read all instructions closely before attempting each step of the installation.

1. Ensure the machine is parked on a level surface.
2. Pull out emergency stops and turn the main disconnect to the ON position.
3. Elevate the aerial platform and place the maintenance support bar into position then lower the scissor onto the maintenance support bar.
4. Push in emergency stops and turn the main disconnect to the OFF position. Lock the switch to prevent unauthorized use during this procedure.
5. Locate the hydraulic/electric tray open the tray.
6. Locate the control module under the machine.
7. Examine the Load Sensing control module and bracket assembly.
8. The control module should be facing the electric/hydraulic tray and mounted on the electric/hydraulic tray side of the cable bundles (carrier) running underneath the center of the base (refer to Figure 1 below). If it is installed in this manner, proceed to step (15). Otherwise, follow the next steps.

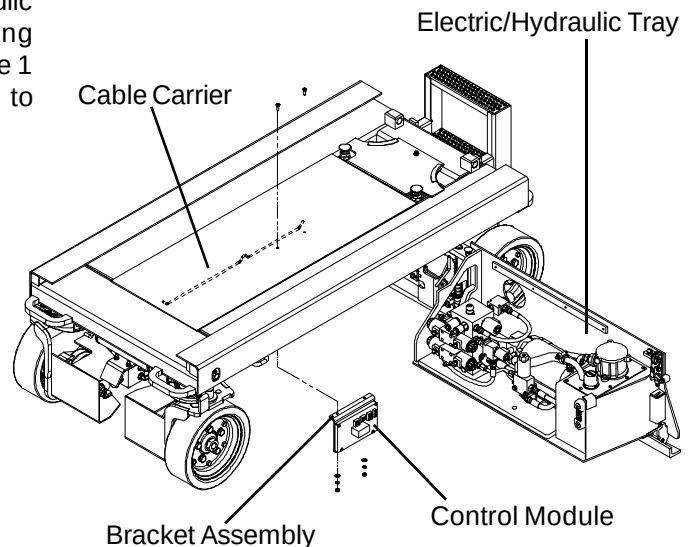


Figure 1. Control Module

9. Disconnect all connectors from the control module.
10. Remove the bracket assembly from the base.
11. Remove the control module from the bracket assembly.
12. Drill new holes as per drawing (see Figure 2).
13. Reinstall the bracket to the base.
14. Proceed to [step \(17\)](#).

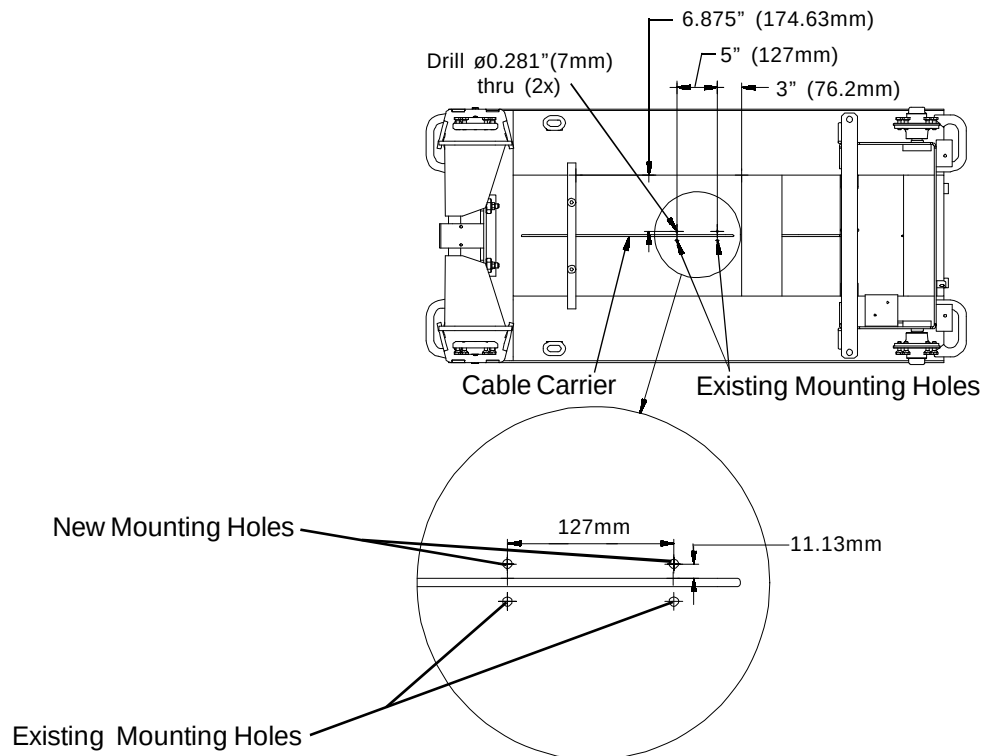
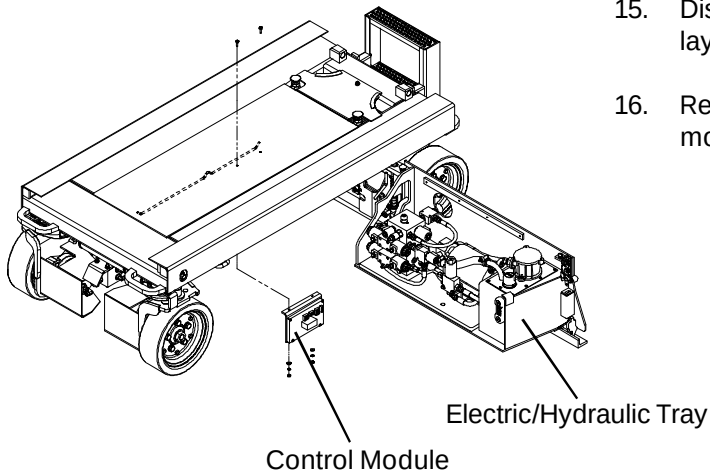
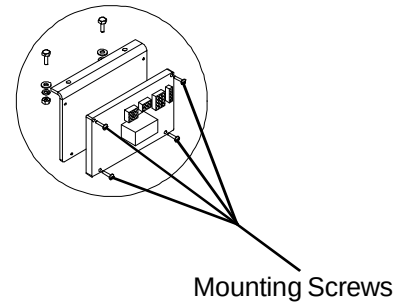


Figure 2. Base (Bottom View)

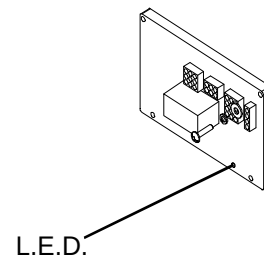


15. Disconnect all connectors from the control module and lay them aside.
16. Remove the 4 mounting screws that hold the control module in place.

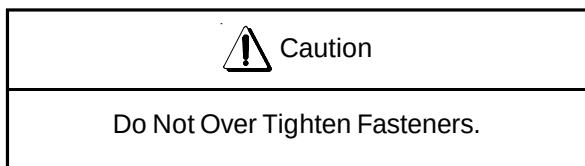


17. Replace the existing control module, part number 130439AB with the new control module part number 130439AC.

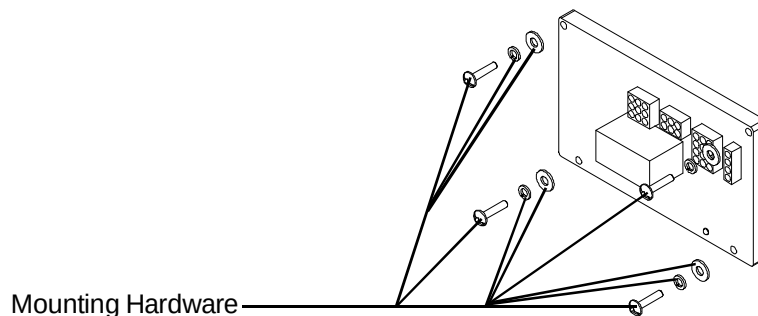
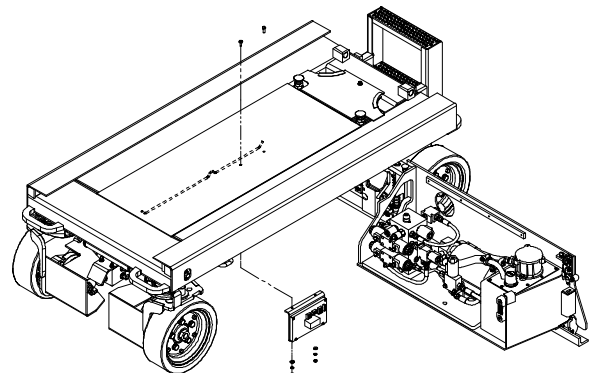
Note
130439AC is also identifiable by the presence of a red (L.E.D.).



18. Make sure the control module is facing the electric/hydraulic tray.
19. Mount the new control module using the hardware provided in the kit.
20. Make sure to use a screw, flat washer and lock washer.

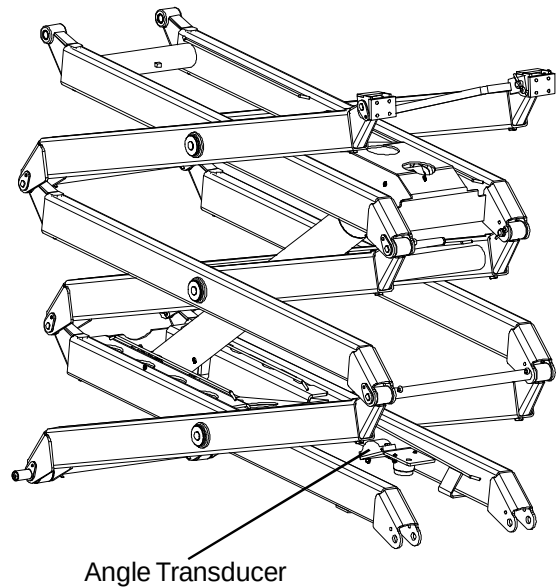
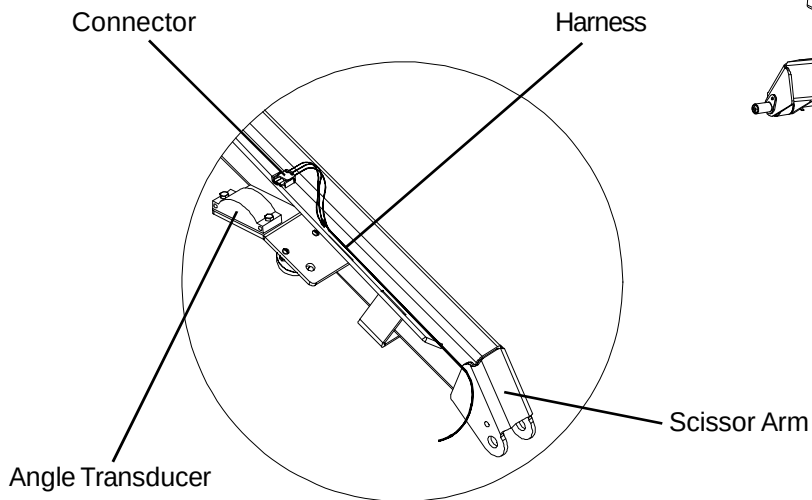


21. Tighten the screw until the lock washer flattens.



Angle Transducer Replacement Procedure:

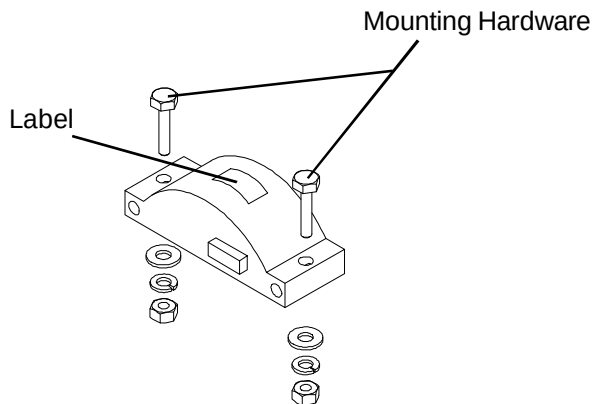
1. Locate the angle transducer. It is located at the first level scissor arm.
2. Disconnect the harness connector from the transducer and lay it aside.
3. Remove the two bolts holding the transducer on the scissor arm.



4. Replace the existing transducer, with the new transducer, part number 130440AB.

Note

The new transducer, part number 130440AB is also identifiable by the presence of a label on top of the transducer.



5. Mount the new transducer using the hardware provided in the kit.
6. Make sure to use a bolt, flat washer, lock washer and a nut.



Caution

Do Not Over Tighten Fasteners.

7. Tighten the bolt until the lock washer flattens.

Harness/Pressure Transducer Replacement Procedure:

1. Locate the holding valve coil. It is located on the block manifold at the bottom of the cylinder.
2. Remove the coil from the holding valve.
3. Remove the coil connector from the coil.
4. Remove the gasket from the coil connector.
5. Using a small flat-head screwdriver, remove the insert from the coil connector.
6. Rotate the insert 90 degrees as shown in Figure 3.
7. Reinstall the insert into the coil connector.
8. Using a small flat-head screwdriver, reinstall the insert to the coil connector.
9. Reinstall the gasket to the coil connector then the coil connector into the coil.

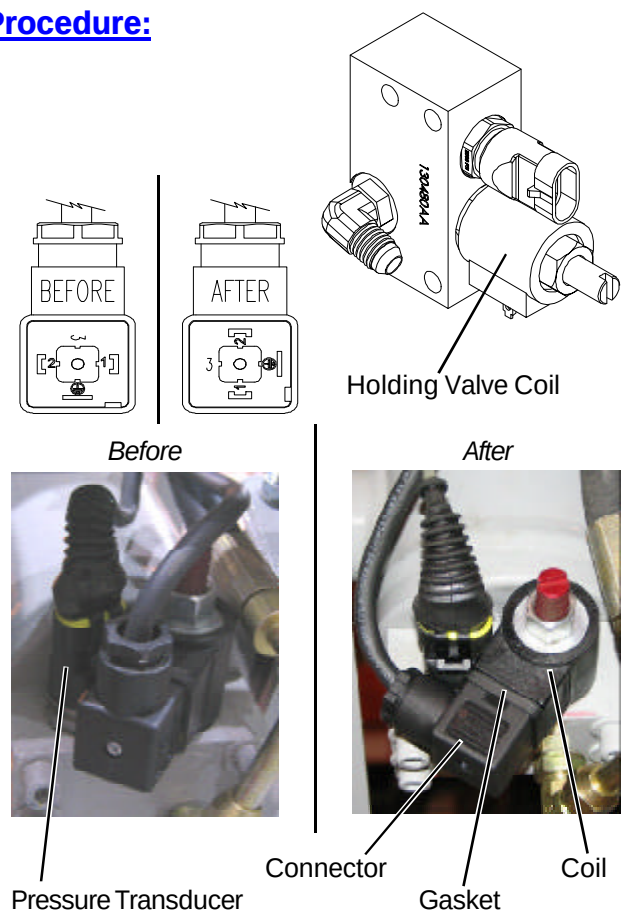
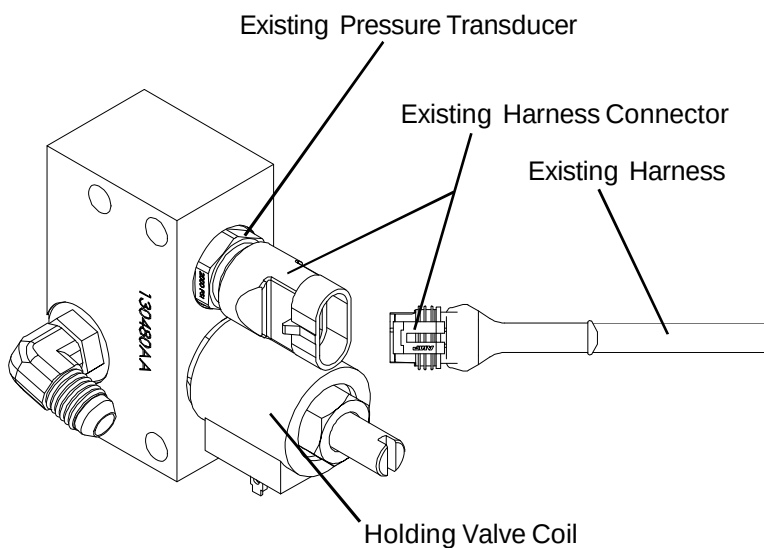


Figure 3. Coil Connector Rotation



10. Locate the pressure transducer. It is located on the block manifold at the bottom of the cylinder.
11. Disconnect the harness connector from the pressure transducer and lay it aside.
12. Replace the existing pressure transducer with the new pressure transducer, part number 134431AA. The torque spec for an o-ring seal pressure transducer is 18-20 Nm.

Note

The new pressure transducer, part number 134431AA is also identifiable by the presence of a short harness and a connector attached to the pressure transducer.

13. Reinstalled the coil to the holding valve.
14. Remove the existing harness from pressure transducer and angle transducer to control module by cutting all the tie wraps.
15. Attach the new harness in place of the existing harness and insert all the connectors into their corresponding slots.
16. Reinstall any cables that had been disconnected during this procedure.

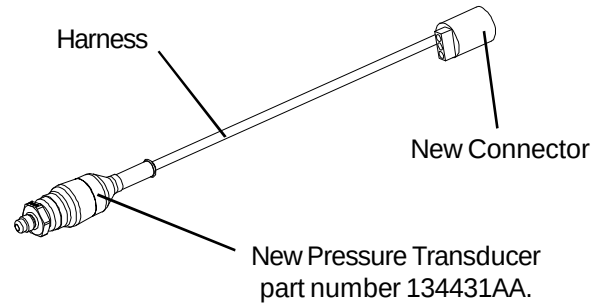


Figure 4a. Locked Position

Note
The plug has to be secured tightly to the socket by pressing it all the way down and ensuring that the two locking latches snap onto the two locking tabs in the socket.
Confirm that it is locked by trying to pull the plug out from the socket.



Figure 4b. Unlocked Position

17. Use tie wraps as required to secure the new harness.
18. Make sure all connections are tight and the harness is properly secured.

Important

The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department.

**Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry,
Shropshire, U.K**

19. Pull out emergency stops and turn the main disconnect to the ON position.
20. Elevate the platform and place the maintenance support bar into its rest position.
21. Lower the platform fully.
22. Follow the module calibration procedure on the following pages.

Calibration Procedure:



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.

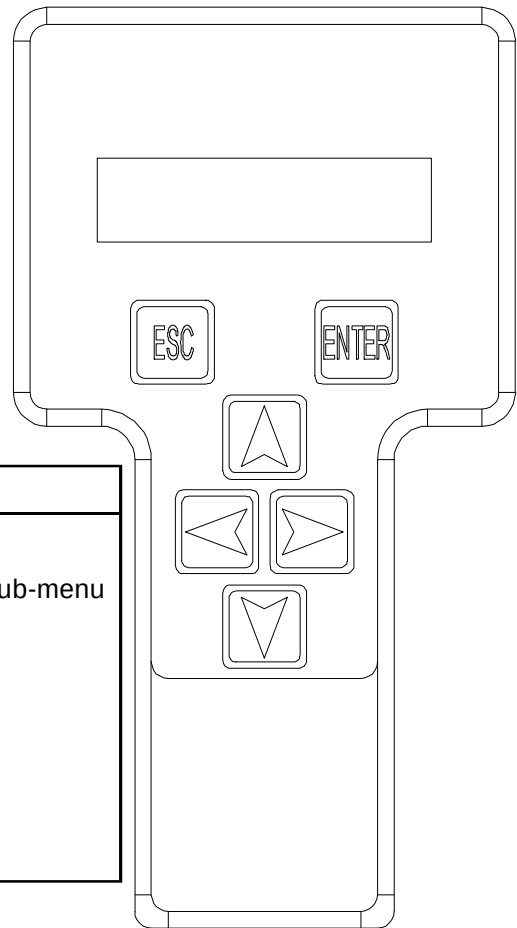


WARNING

Read all instructions closely before attempting each phase of this Procedure.

The following equipment is needed to complete this procedure.

- Easy-Cal Hand Held Calibration/Diagnostic Tool
- **JUMPER, Insulated Alligator Clip**



SYMBOL	KEY FUNCTIONS
 	ESC/ENTER BUTTONS To move back and forth between menu and sub-menu
 	LEFT/RIGHT BUTTONS Select menus and setting to be adjusted
 	UP/DOWN BUTTONS Adjust setting values

1. Move the aerial platform to a test area where the platform can be elevated to its maximum working height and reach.
2. Ensure the aerial platform is parked on a firm, level surface.

IMPORTANT

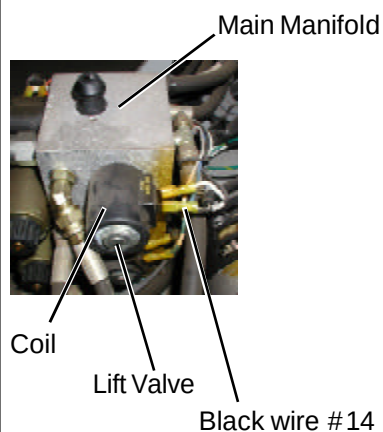
Each phase must be completed before the next phase can be carried out.
All phases must be completed before the aerial platform can be operated.

IMPORTANT

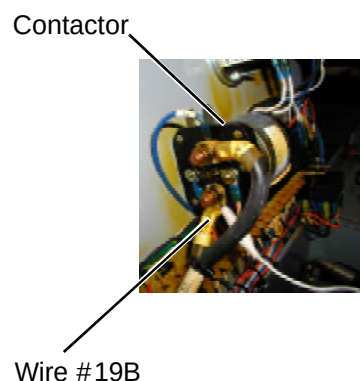
Always follow the instructions of the [Calibration](#) instrument.

IMPORTANT

Make sure the aerial platform is on BASE mode.



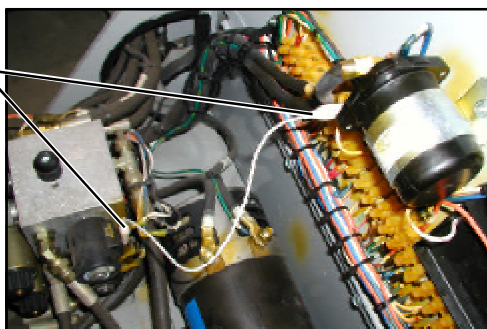
3. Locate the main manifold inside the hydraulic/electric tray.
4. Disconnect the black wire #14 from the lift coil.
5. Locate the contactor on the electrical panel assembly.
6. The jumper connection must be connected between the contactor (wire #19B) and the lift coil (instead of the black wire #14).



Note

To ensure a good and clear contact, clean the wire terminals before attaching the jumper clip.

JUMPER, Insulated Alligator Clip



7. Connect the Easy-Cal tool to the P1 connector on the CONTROL MODULE.
8. **The display will show "Help: Press Enter".**
By using Left/Right buttons, select the "Access Level (?)" from the menu and press the **ENTER** button.

**Contact SKYJACK SERVICE DEPARTMENT At
(44) 1691-676 236 for your Access Level Code Number.**
9. **The display will show "Access Level Code (xxxx)".**
By using the Up/Down buttons, enter the Access Level Code (xxxx) followed by pressing the **ENTER** button.
10. **The display will show "Access Level 2".**
By using Left/Right buttons, select the **"Setups"** from the menu and press the **ENTER** button.
11. **The display will show "Machine Defaults".**
Select the **"Machine Defaults"** from the menu and press the **ENTER** button.
12. **The display will show "Defaults, 0 = Custom".**
By using Left/Right buttons, select the **"X = Group Code"** from the menu and press the **ENTER** button.
13. **The display will show "X=GROUP CODE".**
By using the Up/Down buttons, enter the **"Group Code (3)"** then by using Left/Right buttons, select the **"Curve"** from the menu.
14. **The display will show "X=CURVE".**
By using the Up/Down buttons, enter the **"Curve Code (1)"** followed by pressing the **ESCAPE** button.
15. **The display will show "Machine Defaults".**
By using Left/Right buttons, select the **"Tilt Setups"** from the menu and press the **ENTER** button.
16. **The display will show "Tilt Setups: Calibrate Level".**
Select the **"Tilt Setups: Calibrate Level"** from the menu and press the **ENTER** button.
17. **The display will show "Calibrate Level: Yes: Enter, No: ESC".**
Select the **"Yes"** from the menu by press the **ENTER** button.
18. **The display will show "Calibrate Level: Tilt 0.0' , 0.0'".**
Select the **"ESCAPE"** from the menu once.
19. **The display will show "Tilt Setups Calibrate Level".**
Select the **"ESCAPE"** from the menu once again.
20. **The display will show "Setups Tilt Setups".**
By using Left/Right buttons, select the **"Load Setups"** from the menu and press the **ENTER** button.
21. **The display will show "Load Setups: Calibrate Load".**
Select the **"Load Setups: Calibrate Load"** from the menu and press the **ENTER** button.
22. At this point, elevate the aerial platform to full height, check the harness and making sure it is not stretched too tight and then fully lower the platform.
23. **The display will show "Calibrate Load: Platform Down?".**
Asking for confirmation that the platform is fully lowered?
Check that the platform is fully lowered then press the **ENTER** button to confirm.

24. The display will show **"Calibrate: Loaded Empty? No"**.
Asking for confirmation that the platform is empty?
Check that the platform is empty?
25. By using the Up/Down buttons, enter the **"Yes"** followed by pressing the **ENTER** button.
26. The display will show **"Calibrate Load: Please Lift . . ."**.
Waiting for the lift switch to be activated.
27. Hold the lift switch and keep holding it until the platform is fully elevated.

IMPORTANT

If the lift switch is released earlier than full-height position, the calibration will have to be aborted and repeated from the beginning!
--

28. When the system detects the lift switch closed, the display will show **"Calibrate Load: Lift Empty"**.
29. After a delay, the system will stop the platform lifting and will take height & pressure measurements; the display will show **"MEASURING # xx"** When the measurements have been taken, the platform will resume lifting.

Note

The lifting ... stopping ... measuring ... lifting process will continue until the platform reaches full height.
--

30. When the platform reaches full height release the lift switch.
31. The display will briefly show **"TOTAL DATA: 04"** to indicate the number of measurements taken.
32. The display will show **"Calibrate Load: Please Lower . . ."**.

IMPORTANT

If the lower switch is released earlier than full-lowered position, the calibration will have to be aborted and repeated from the beginning!
--

33. Hold the lower switch and keep holding it until the platform is fully lowered.
34. When the system detects the lower switch closed, the display will show **"Calibrate Load: Lower Empty"**.
35. After a delay, the system will stop the platform lowering and will take height & pressure measurements; the display will show **"MEASURING #xx"** When the measurements have been taken, the platform will resume lowering.

Note

The lowering ... stopping ... measuring ... lowering process will continue until the platform is fully lowered.

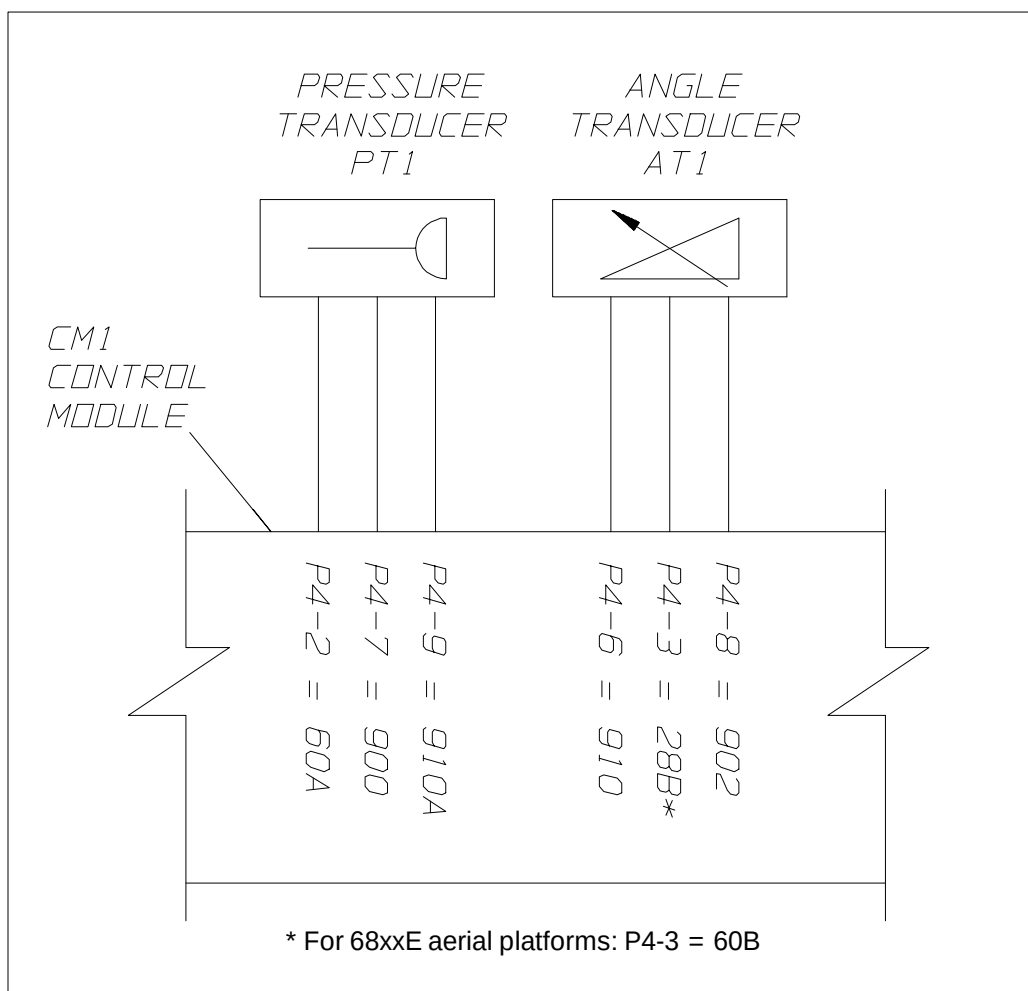
36. When the platform is fully lowered (and height 0% is displayed), release the lower switch.
37. The display will show briefly **"TOTAL DATA: 04"** to indicate the number of measurements taken.
38. The display will show **"Calibrate Load: Caldate: mm/dd/yy"**.
It is recommended that the current date be entered here to provide easy tracking of the date of last calibration. The current date must be entered using the LEFT/RIGHT and UP/DOWN buttons.
39. Press **ENTER** to complete date entry (the system will store it).
40. The display will show **"FINISHED!"**
41. Press the ESC button to exit the **"CALIBRATE LOAD"** option.
42. Remove the jumper wire and re-connect the black wire #14 to the coil removed earlier.
43. Close the hydraulic/electric tray.
44. The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department:

Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

IMPORTANT

Replaced parts **MUST** be sent back to Skyjack Parts Department in order to comply with the warranty.

Electrical Schematic



Note

For the latest schematic, please refer to the Skyjack web site: www.skyjackinc.com

Attach this schematic to the Load Sensing Operating Manual

Note

Attach this schematic to the Load Sensing Operating Manual



**SJ-III 3219
Series**

***Load Sensing System
Retrofit Procedure***

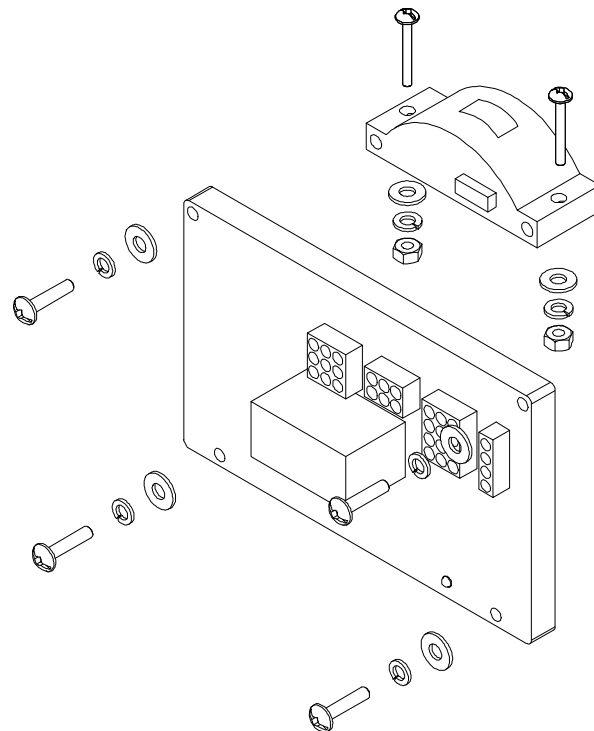


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Control Module Replacement Procedure	4
Angle Transducer Replacement Procedure	7
Harness Replacement Procedure	8
Calibration Procedure	10



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.



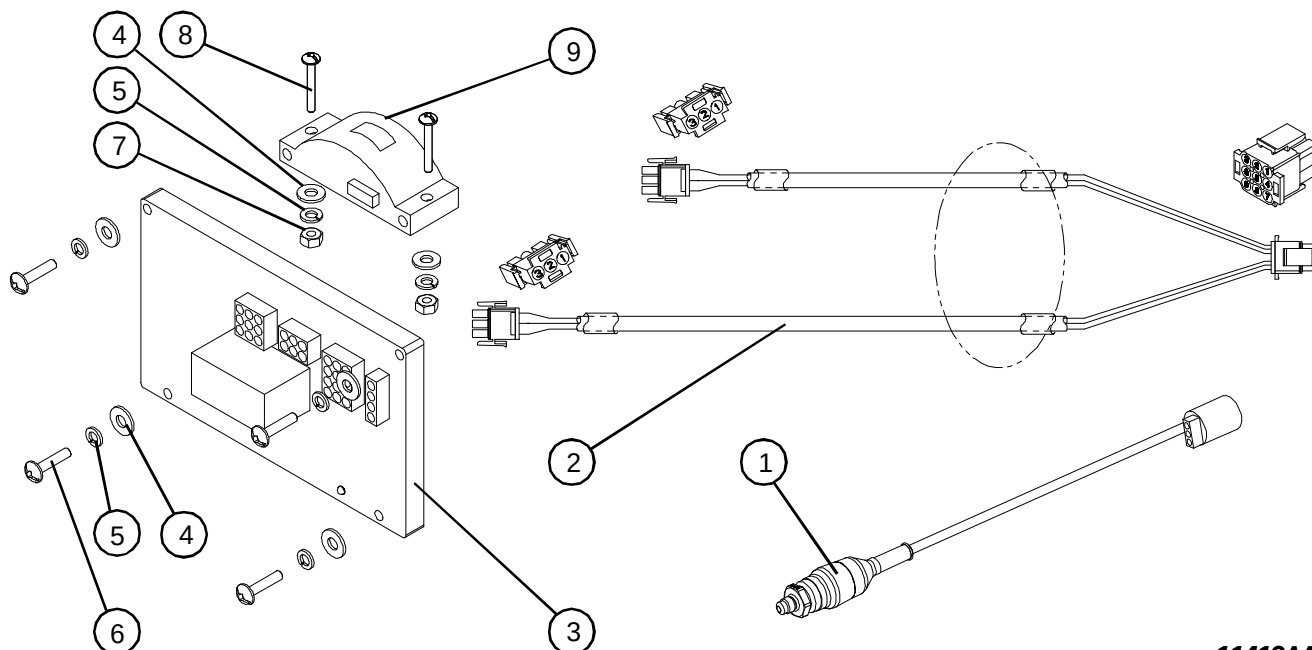
WARNING

Read all instructions closely before attempting each step of the installation.

Parts Inventory

Note

If You Have Not Received The Complete Part Inventory, Contact SKYJACK SERVICE DEPARTMENT At (44) 1691-676 236 Or Fax (44) 1691-676 238 To Have The Missing Parts Sent To You. DO NOT Attempt Installation Without The Complete Package.



11419AA

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5	104185	6	• WASHER, Lock# 10 NOM.
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7	104003	2	• NUT, #10-32 Gr. B Machine
8	122498	2	• SCREW, #10-32 x 1.25" Machine
9	130440	1	• TRANSDUCER, Angle
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11	102893	12	• TIEWRAP, 13 3/4" Black
12	134485	1	• JUMPER, Insulated Alligator Clip
13	134475	1	• RETROFIT PROCEDURE

Important

In order to comply with the warranty, replaced parts MUST be sent back to Skyjack Parts Department:

**Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry,
Shropshire, U.K**

Control Module Replacement Procedure:



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform



WARNING

Read all instructions closely before attempting each step of the installation.

1. Ensure the aerial platform is parked on a level surface.
2. Pull out emergency stops and turn the main disconnect to the ON position.
3. Elevate the aerial platform and place the maintenance support bar into position then lower the scissor onto the maintenance support bar.
4. Push in emergency stops and turn the main disconnect to the OFF position. Lock the switch to prevent unauthorized use during this procedure.
5. Locate the hydraulic/electric tray open the tray.
6. Locate the control module under the aerial platform.
7. Examine the Load Sensing control module and bracket assembly.
8. The control module should be facing the electric/hydraulic tray and mounted on the electric/hydraulic tray side of the cable bundles (carrier) running underneath the center of the base (refer to Figure 1 below). If it is installed in this manner, proceed to step (15). Otherwise, follow the next steps.

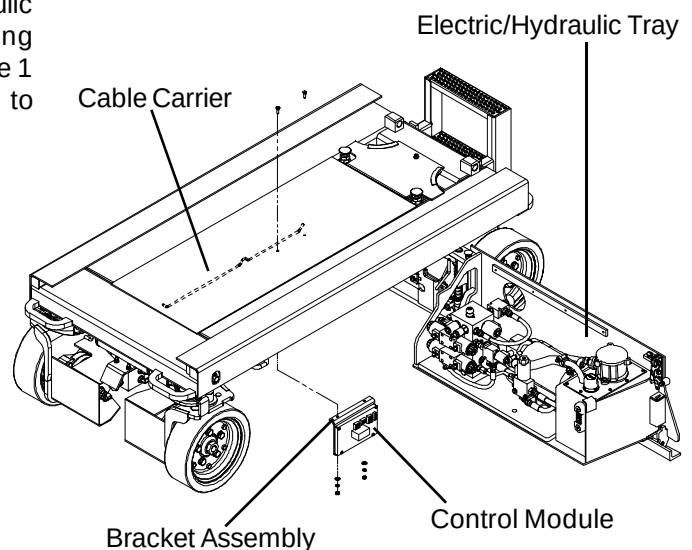


Figure 1. Control Module

9. Disconnect all connectors from the control module.
10. Remove the bracket assembly from the base.
11. Remove the control module from the bracket assembly.
12. Drill new holes as per drawing (see Figure 2).
13. Reinstall the bracket to the base.
14. Proceed to [step \(17\)](#).

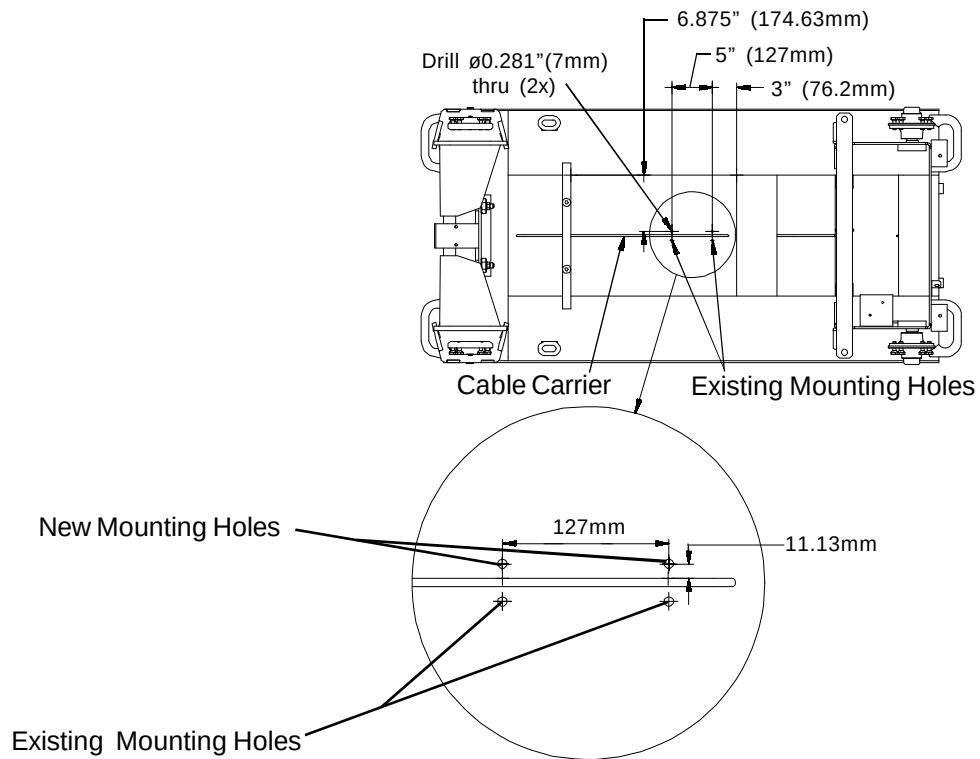
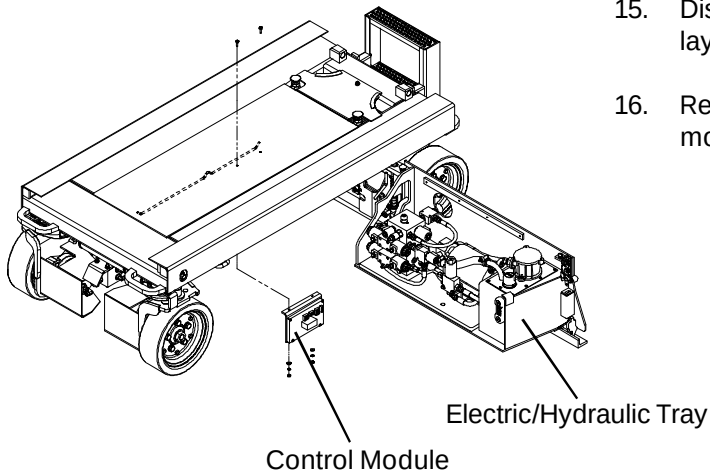
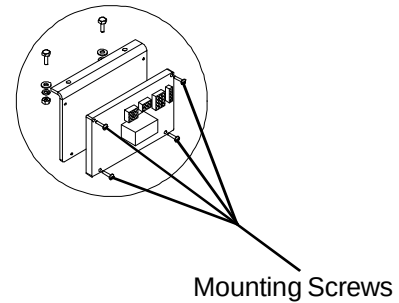


Figure 2. Base (Bottom View)

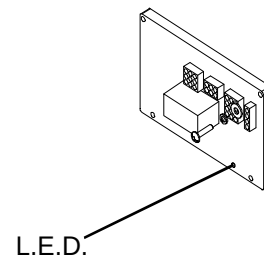


15. Disconnect all connectors from the control module and lay them aside.
16. Remove the 4 mounting screws that hold the control module in place.

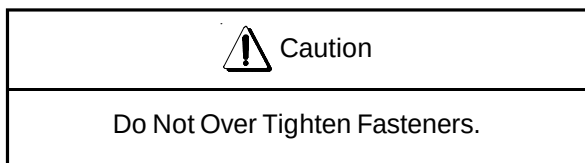


17. Replace the existing control module, part number 130439AB with the new control module part number 130439AC.

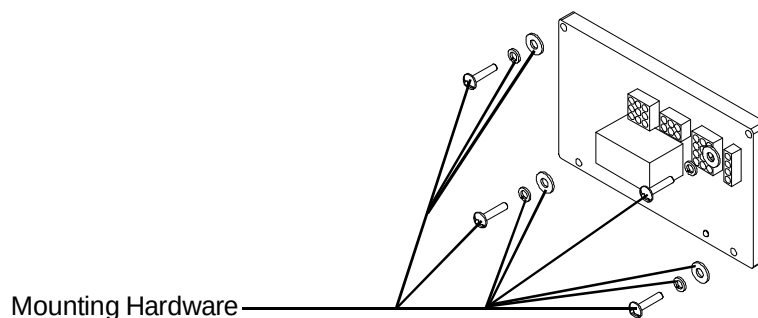
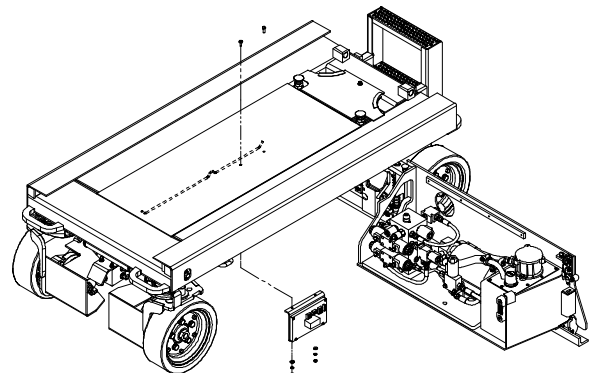
Note
130439AC is also identifiable by the presence of a red (L.E.D.).



18. Make sure the control module is facing the electric/hydraulic tray.
19. Mount the new control module using the hardware provided in the kit.
20. Make sure to use a screw, flat washer and lock washer.

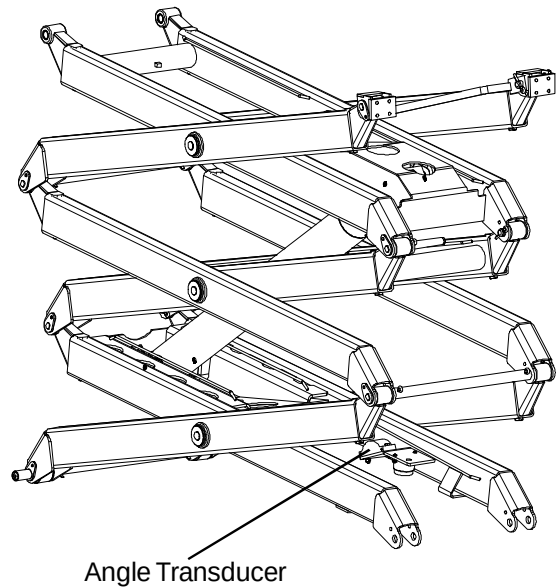
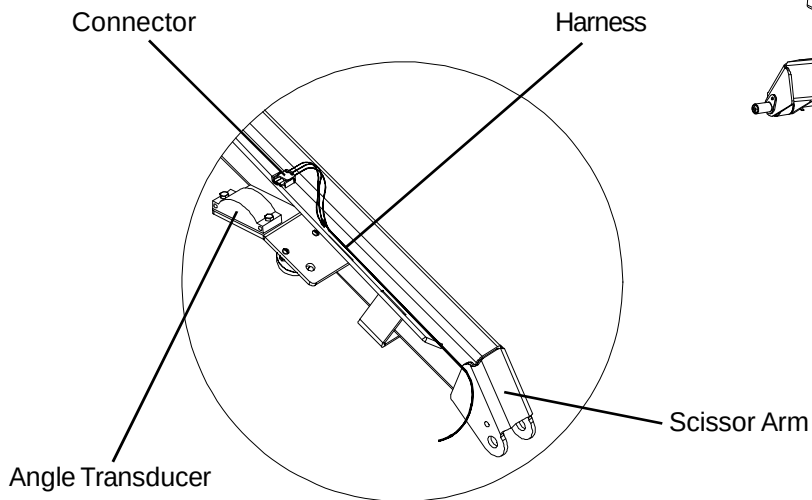


21. Tighten the screw until the lock washer flattens.



Angle Transducer Replacement Procedure:

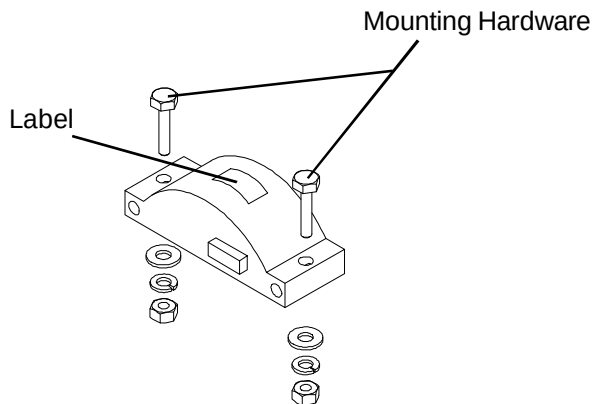
1. Locate the angle transducer. It is located at the first level scissor arm.
2. Disconnect the harness connector from the transducer and lay it aside.
3. Remove the two bolts holding the transducer on the scissor arm.



4. Replace the existing transducer, with the new transducer, part number 130440AB.

Note

The new transducer, part number 130440AB is also identifiable by the presence of a label on top of the transducer.



5. Mount the new transducer using the hardware provided in the kit.
6. Make sure to use a bolt, flat washer, lock washer and a nut.



Caution

Do Not Over Tighten Fasteners.

7. Tighten the bolt until the lock washer flattens.

Harness/Pressure Transducer Replacement Procedure:

1. Locate the holding valve coil. It is located on the block manifold at the bottom of the cylinder.
2. Remove the coil from the holding valve.
3. Remove the coil connector from the coil.
4. Remove the gasket from the coil connector.
5. Using a small flat-head screwdriver, remove the insert from the coil connector.
6. Rotate the insert 90 degrees as shown in Figure 3.
7. Reinstall the insert into the coil connector.
8. Using a small flat-head screwdriver, reinstall the insert to the coil connector.
9. Reinstall the gasket to the coil connector then the coil connector into the coil.

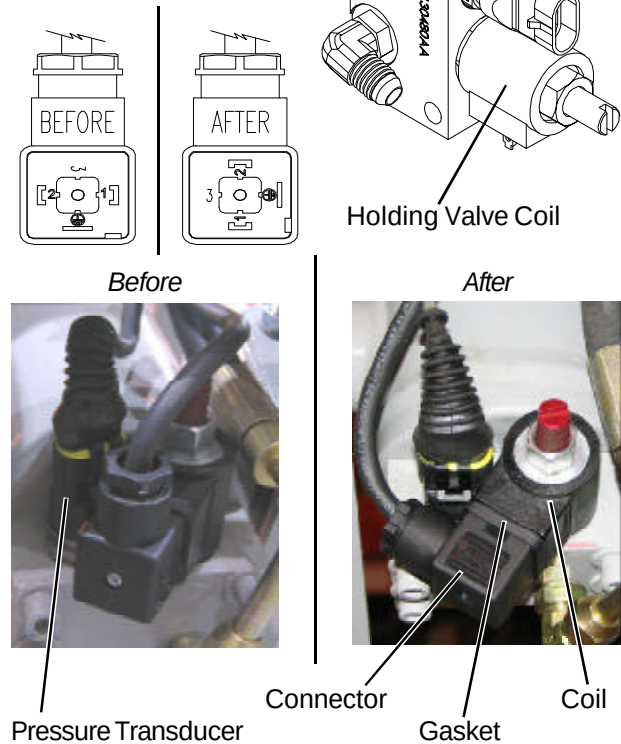
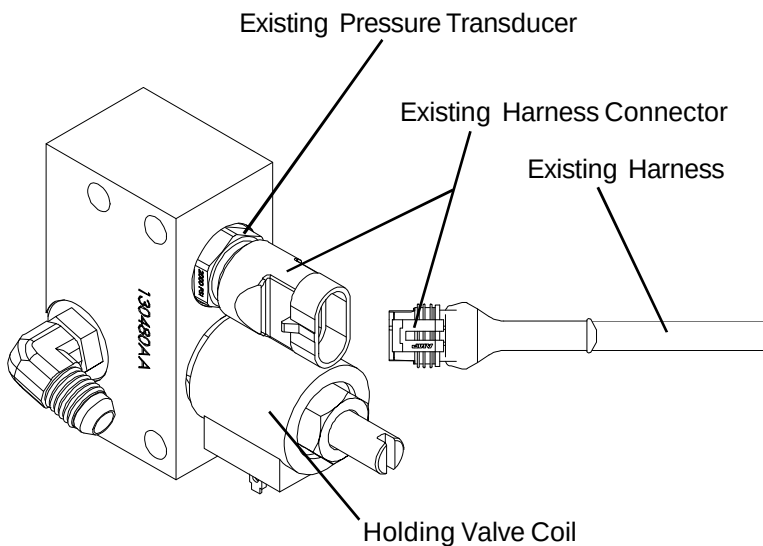


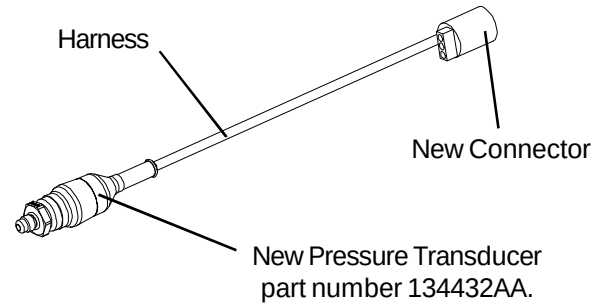
Figure 3. Coil Connector Rotation



10. Locate the pressure transducer. It is located on the block manifold at the bottom of the cylinder.
11. Disconnect the harness connector from the pressure transducer and lay it aside.
12. Replace the existing pressure transducer with the new pressure transducer, part number [134432AA](#). The torque spec for an o-ring seal pressure transducer is 18-20 Nm.

Note

The new pressure transducer, part number 134432AA is also identifiable by the presence of a short harness and a connector attached to the pressure transducer.



13. Reinstalled the coil to the holding valve.
14. Remove the existing harness from pressure transducer and angle transducer to control module by cutting all the tie wraps.
15. Attach the new harness in place of the existing harness and insert all the connectors into their corresponding slots.
16. Reinstall any cables that had been disconnected during this procedure.



Figure 4a. Locked Position

Note
The plug has to be secured tightly to the socket by pressing it all the way down and ensuring that the two locking latches snap onto the two locking tabs in the socket.
Confirm that it is locked by trying to pull the plug out from the socket.



Figure 4b. Unlocked Position

17. Use tie wraps as required to secure the new harness.
18. Make sure all connections are tight and the harness is properly secured.

Important
The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department. Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

19. Pull out emergency stops and turn the main disconnect to the ON position.
20. Elevate the platform and place the maintenance support bar into its rest position.
21. Lower the platform fully.
22. Follow the module calibration procedure on the following pages.

Calibration Procedure:



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.

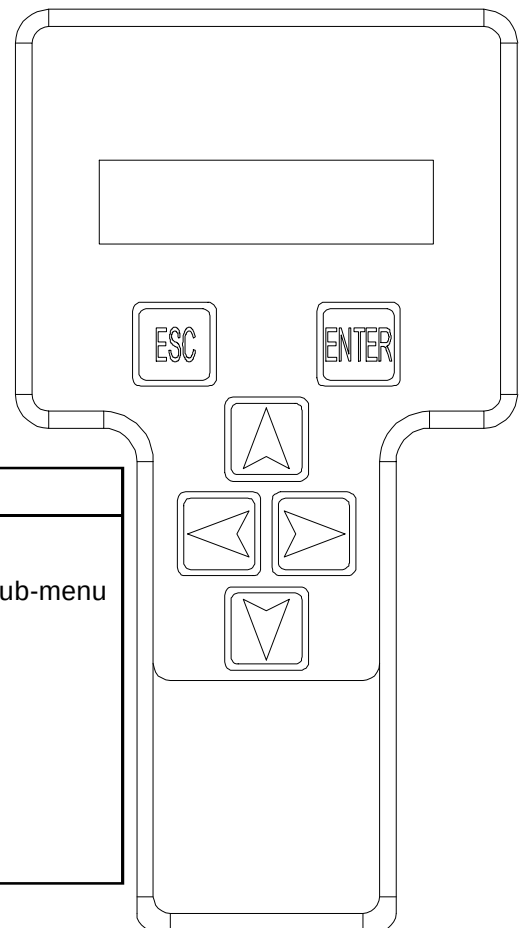


WARNING

Read all instructions closely before attempting each phase of this Procedure.

The following equipment is needed to complete this procedure.

- Easy-Cal Hand Held Calibration/Diagnostic Tool
- **JUMPER, Insulated Alligator Clip**



SYMBOL	KEY FUNCTIONS
 	ESC/ENTER BUTTONS To move back and forth between menu and sub-menu
 	LEFT/RIGHT BUTTONS Select menus and setting to be adjusted
 	UP/DOWN BUTTONS Adjust setting values

1. Move the aerial platform to a test area where the platform can be elevated to its maximum working height and reach.
2. Ensure the aerial platform is parked on a firm, level surface.

IMPORTANT

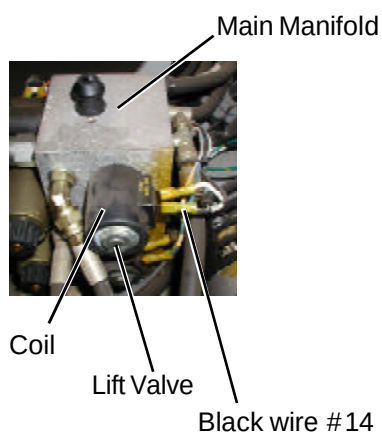
Each phase must be completed before the next phase can be carried out.
All phases must be completed before the aerial platform can be operated.

IMPORTANT

Always follow the instructions of the [Calibration](#) instrument.

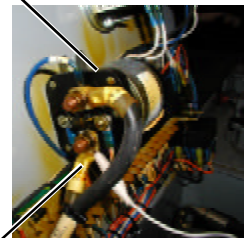
IMPORTANT

Make sure the aerial platform is on BASE mode.



3. Locate the main manifold inside the hydraulic/electric tray.
4. Disconnect the black wire #14 from the lift coil.
5. Locate the contactor on the electrical panel assembly.
6. The jumper connection must be connected between the contactor (wire #19B) and the lift coil (instead of the black wire #14).

Contactor

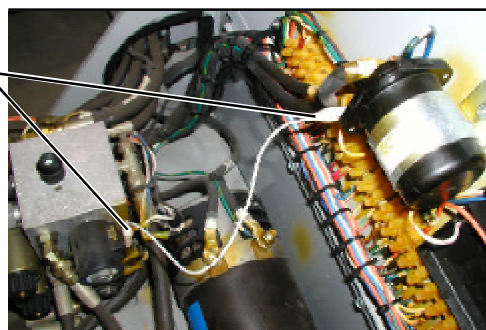


Wire #19B

Note

To ensure a good and clear contact, clean the wire terminals before attaching the jumper clip.

JUMPER, Insulated Alligator Clip



7. Connect the Easy-Cal tool to the P1 connector on the CONTROL MODULE.
8. **The display will show "Help: Press Enter".**
By using Left/Right buttons, select the "Access Level (?)" from the menu and press the **ENTER** button.

**Contact SKYJACK SERVICE DEPARTMENT At
(44) 1691-676 236 for your Access Level Code Number.**
9. **The display will show "Access Level Code (xxxx)".**
By using the Up/Down buttons, enter the Access Level Code (xxxx) followed by pressing the **ENTER** button.
10. **The display will show "Access Level 2".**
By using Left/Right buttons, select the **"Setups"** from the menu and press the **ENTER** button.
11. **The display will show "Machine Defaults".**
Select the **"Machine Defaults"** from the menu and press the **ENTER** button.
12. **The display will show "Defaults, 0 = Custom".**
By using Left/Right buttons, select the **"X = Group Code"** from the menu and press the **ENTER** button.
13. **The display will show "X=GROUP CODE".**
By using the Up/Down buttons, enter the **"Group Code (3)"** then by using Left/Right buttons, select the **"Curve"** from the menu.
14. **The display will show "X=CURVE".**
By using the Up/Down buttons, enter the **"Curve Code (2)"** followed by pressing the **ESCAPE** button.
15. **The display will show "Machine Defaults".**
By using Left/Right buttons, select the **"Tilt Setups"** from the menu and press the **ENTER** button.
16. **The display will show "Tilt Setups: Calibrate Level".**
Select the **"Tilt Setups: Calibrate Level"** from the menu and press the **ENTER** button.
17. **The display will show "Calibrate Level: Yes: Enter, No: ESC".**
Select the **"Yes"** from the menu by press the **ENTER** button.
18. **The display will show "Calibrate Level: Tilt 0.0' , 0.0'".**
Select the **"ESCAPE"** from the menu once.
19. **The display will show "Tilt Setups Calibrate Level".**
Select the **"ESCAPE"** from the menu once again.
20. **The display will show "Setups Tilt Setups".**
By using Left/Right buttons, select the **"Load Setups"** from the menu and press the **ENTER** button.
21. **The display will show "Load Setups: Calibrate Load".**
Select the **"Load Setups: Calibrate Load"** from the menu and press the **ENTER** button.
22. At this point, elevate the aerial platform to full height, check the harness and making sure it is not stretched too tight and then fully lower the platform.
23. **The display will show "Calibrate Load: Platform Down?".**
Asking for confirmation that the platform is fully lowered?
Check that the platform is fully lowered then press the **ENTER** button to confirm.

24. The display will show **"Calibrate: Loaded Empty? No"**.
Asking for confirmation that the platform is empty?
Check that the platform is empty?
25. By using the Up/Down buttons, enter the **"Yes"** followed by pressing the **ENTER** button.
26. The display will show **"Calibrate Load: Please Lift . . ."**.
Waiting for the lift switch to be activated.
27. Hold the lift switch and keep holding it until the platform is fully elevated.

IMPORTANT

If the lift switch is released earlier than full-height position, the calibration will have to be aborted and repeated from the beginning!
--

28. When the system detects the lift switch closed, the display will show **"Calibrate Load: Lift Empty"**.
29. After a delay, the system will stop the platform lifting and will take height & pressure measurements; the display will show **"MEASURING # xx"** When the measurements have been taken, the platform will resume lifting.

Note

The lifting ... stopping ... measuring ... lifting process will continue until the platform reaches full height.
--

30. When the platform reaches full height release the lift switch.
31. The display will briefly show **"TOTAL DATA: 04"** to indicate the number of measurements taken.
32. The display will show **"Calibrate Load: Please Lower . . ."**.

IMPORTANT

If the lower switch is released earlier than full-lowered position, the calibration will have to be aborted and repeated from the beginning!
--

33. Hold the lower switch and keep holding it until the platform is fully lowered.
34. When the system detects the lower switch closed, the display will show **"Calibrate Load: Lower Empty"**.
35. After a delay, the system will stop the platform lowering and will take height & pressure measurements; the display will show **"MEASURING #xx"** When the measurements have been taken, the platform will resume lowering.

Note

The lowering ... stopping ... measuring ... lowering process will continue until the platform is fully lowered.

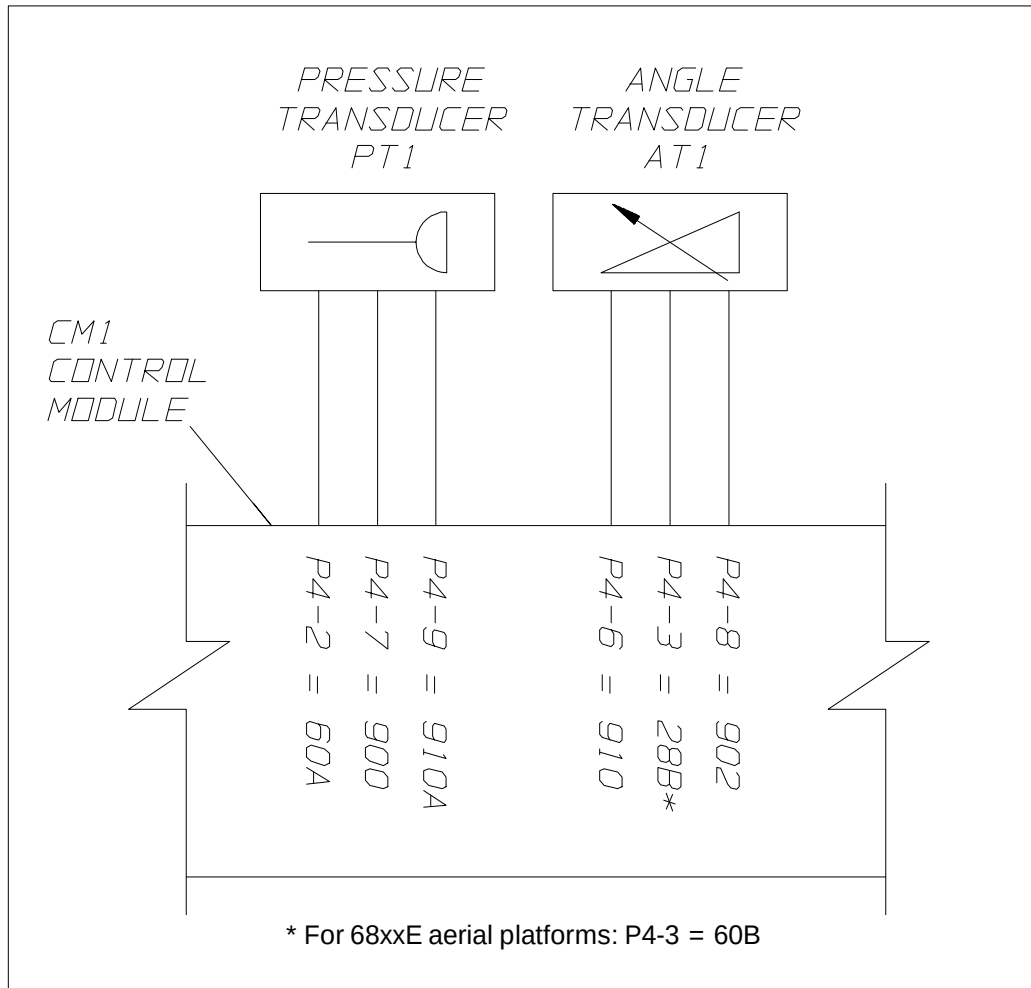
36. When the platform is fully lowered (and height 0% is displayed), release the lower switch.
37. The display will show briefly **"TOTAL DATA: 04"** to indicate the number of measurements taken.
38. The display will show **"Calibrate Load: Caldate: mm/dd/yy"**.
It is recommended that the current date be entered here to provide easy tracking of the date of last calibration. The current date must be entered using the LEFT/RIGHT and UP/DOWN buttons.
39. Press **ENTER** to complete date entry (the system will store it).
40. The display will show **"FINISHED!"**
41. Press the ESC button to exit the **"CALIBRATE LOAD"** option.
42. Remove the jumper wire and re-connect the black wire #14 to the coil removed earlier.
43. Close the hydraulic/electric tray.
44. The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department:

Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

IMPORTANT

Replaced parts **MUST** be sent back to Skyjack Parts Department in order to comply with the warranty.

Electrical Schematic



Note

For the latest schematic, please refer to the Skyjack web site: www.skyjackinc.com

Attach this schematic to the Load Sensing Operating Manual

Note

Attach this yellow page containing the machine operation to the Operating Manual



SJ-III 3220/3220M/4626/4632/4832 Series

Load Sensing System Retrofit Procedure

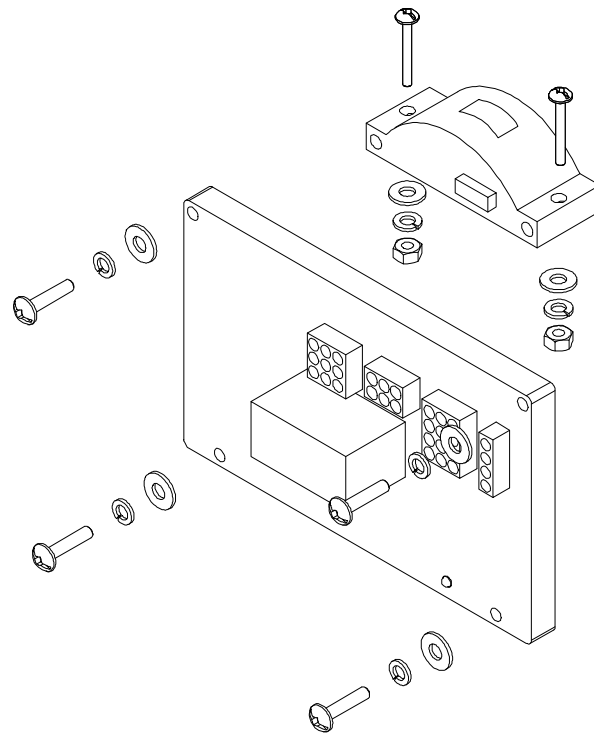


Table Of Contents

<u>Description</u>	<u>Page No.</u>
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Control Module Replacement Procedure	4
Angle Transducer Replacement Procedure	7
Harness Replacement Procedure	8
Calibration Procedure	10
 Table 1-1	3



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform



WARNING

Read all instructions closely before attempting each step of the installation.

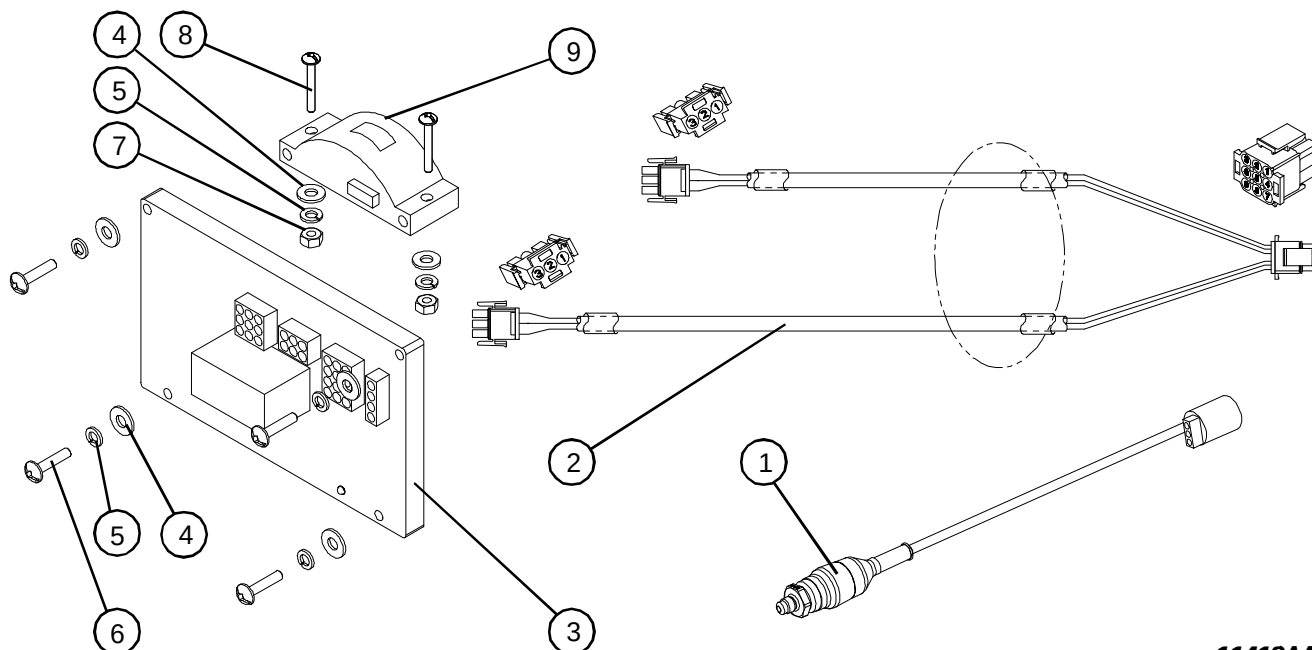
Table 1-1

Machine	Number of Extension Decks	Curve	Group Code	Serial Number
3220 & 3220M	1 Manual Extension Deck	3	3	
3220 & 3220M	1 Powered Extension Deck	4	3	
4626B	1 Manual Extension Deck	10	4	709313 & Above
4626B	1 Powered Extension Deck	11	4	709313 & Above
4626D	1 Manual Extension Deck	12	3	710005 & Above
4626D	1 Powered Extension Deck	13	3	710005 & Above
4632	1 Manual Extension Deck	14	3	
4832	1 Manual Extension Deck	15	1	

Parts Inventory

Note

If You Have Not Received The Complete Part Inventory, Contact SKYJACK SERVICE DEPARTMENT At (44) 1691-676 236 Or Fax (44) 1691-676 238 To Have The Missing Parts Sent To You. DO NOT Attempt Installation Without The Complete Package.



11419AA

Index No.	Skyjack Part No.	Qty.	Description
A	134466	1	KIT, Load Sensing Retrofit
1	134431	1	• TRANSDUCER, Pressure
2	134437	1	• HARNESS, Angle/Pressure Sensor
3	130439	1	• CONTROLLER MODULE, Overload Sensing
4	104694	6	• WASHER, Flat #10 S.A.E.
5	104185	6	• WASHER, Lock# 10 NOM.
6	105621	4	• SCREW, #10-32 x 1" Machine
7	104003	2	• NUT, #10-32 Gr. B Machine
8	122498	2	• SCREW, #10-32 x 1.25" Machine
9	130440	1	• TRANSDUCER, Angle
10	102891	24	• TIEWRAP, 7 1/4" Black
11	102893	12	• TIEWRAP, 13 3/4" Black
12	134485	1	• JUMPER, Insulated Alligator Clip
13	134478	1	• RETROFIT PROCEDURE

Important

In order to comply with the warranty, replaced parts MUST be sent back to Skyjack Parts Department:

**Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry,
Shropshire, U.K**

Control Module Replacement Procedure:

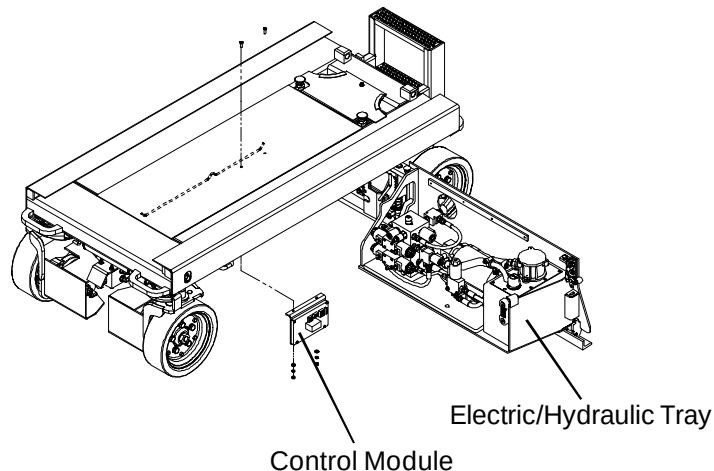


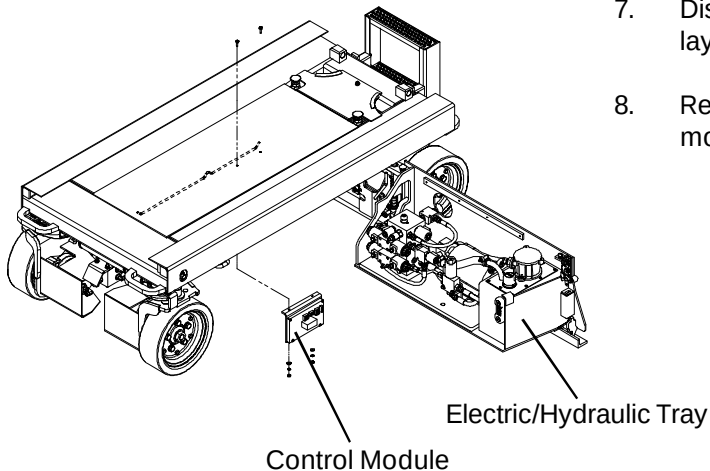
Only trained and authorized personnel shall be permitted to service an aerial platform.



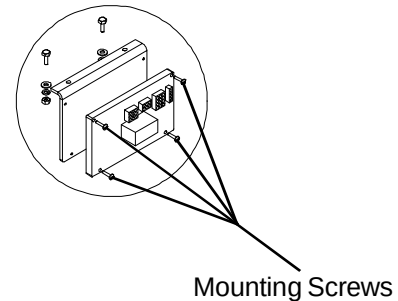
Read all instructions closely before attempting each step of the installation.

1. Ensure the aerial platform is parked on a level surface.
2. Pull out emergency stops and turn the main disconnect to the ON position.
3. Elevate the aerial platform and place the maintenance support bar into position then lower the scissor onto the maintenance support bar.
4. Push in emergency stops and turn the main disconnect to the OFF position. Lock the switch to prevent unauthorized use during this procedure.
5. Locate the hydraulic/electric tray open the tray.
6. Locate the control module under the aerial platform.



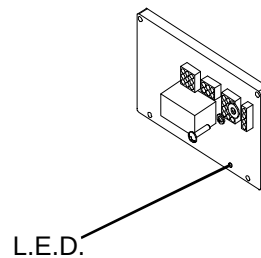


7. Disconnect all connectors from the control module and lay them aside.
8. Remove the 4 mounting screws that hold the control module in place.

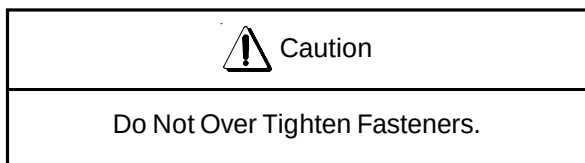


9. Replace the existing control module, part number 130439AB with the new control module part number 130439AC.

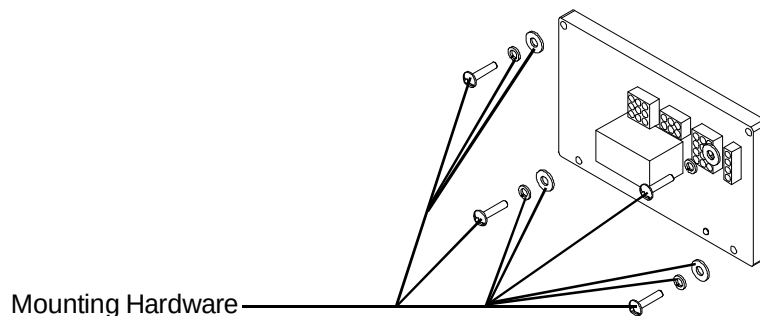
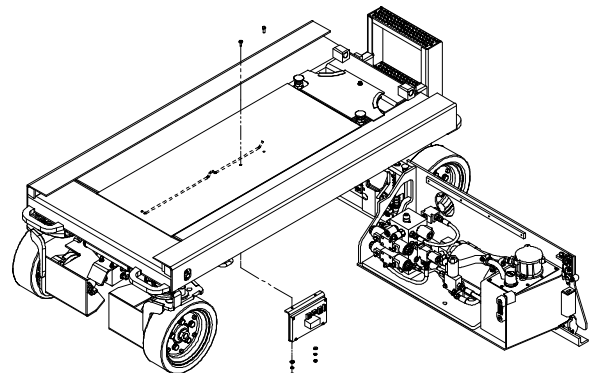
Note
130439AC is also identifiable by the presence of a red (L.E.D.).



10. Make sure the control module is facing the electric/hydraulic tray.
11. Mount the new control module using the hardware provided in the kit.
12. Make sure to use a screw, flat washer and lock washer.

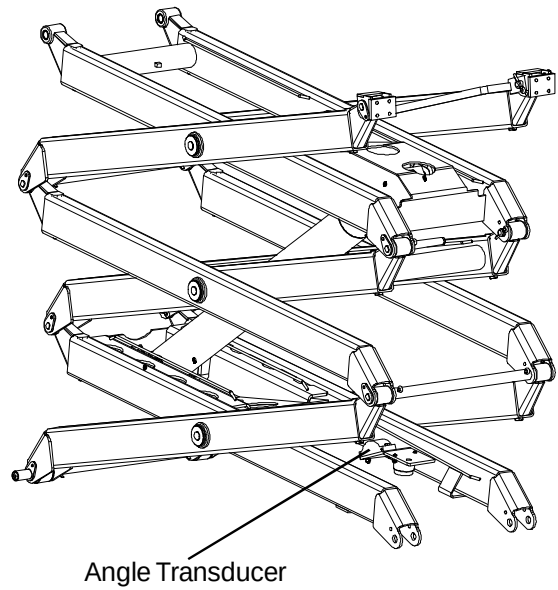
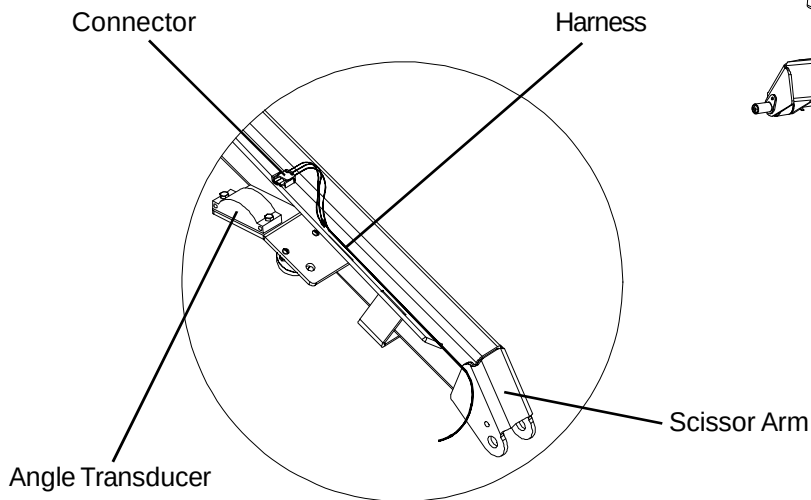


13. Tighten the screw until the lock washer flattens.



Angle Transducer Replacement Procedure:

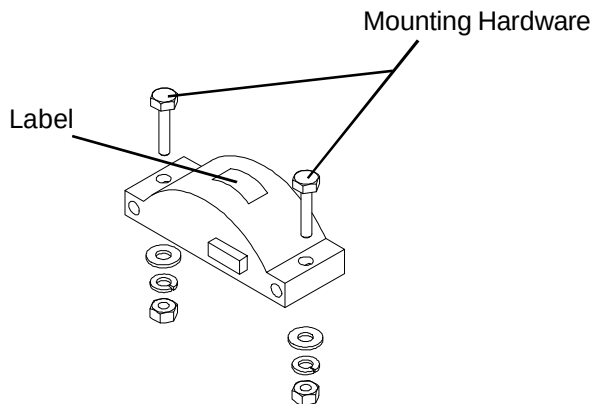
1. Locate the angle transducer. It is located at the first level scissor arm.
2. Disconnect the harness connector from the transducer and lay it aside.
3. Remove the two bolts holding the transducer on the scissor arm.



4. Replace the existing transducer, with the new transducer, part number **130440AB**.

Note

The new transducer, part number 130440AB is also identifiable by the presence of a label on top of the transducer.



5. Mount the new transducer using the hardware provided in the kit.
6. Make sure to use a bolt, flat washer, lock washer and a nut.



Caution

Do Not Over Tighten Fasteners.

7. Tighten the bolt until the lock washer flattens.

Harness/Pressure Transducer Replacement Procedure:

1. Locate the pressure transducer. It is located on the block manifold at the bottom of the lower cylinder.
2. Disconnect the harness connector from the pressure transducer and lay it aside.
3. Replace the existing pressure transducer with the new pressure transducer, part number 134431AA. The torque spec for an o-ring seal pressure transducer is 18-20 Nm.

Note

In some models, for easy access to the pressure transducer, the holding valve coil has to be removed, set aside and reinstalled once the new pressure transducer has been attached.

Note

The new pressure transducer, part number 134431AA is also identifiable by the presence of a short harness and a connector attached to the pressure transducer.

4. Remove the existing harness from pressure transducer and angle transducer to control module by cutting all the tiewraps.
5. Attach the new harness in place of the existing harness and insert all the connectors into their corresponding slots.

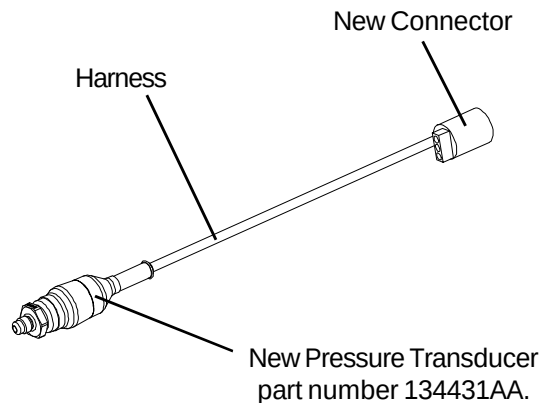
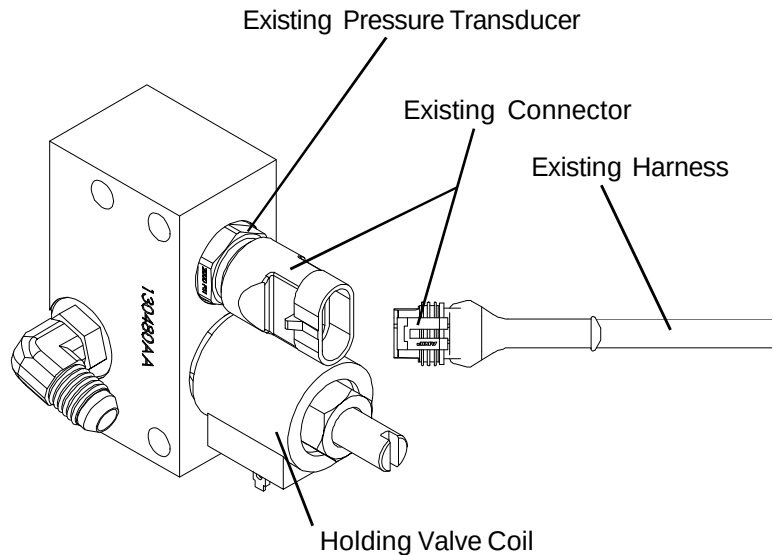




Figure 1. Locked Position

Note

The plug has to be secured tightly to the socket by pressing it all the way down and ensuring that the two locking latches snap onto the two locking tabs in the socket.

Confirm that it is locked by trying to pull the plug out from the socket.



Figure 2. Unlocked Position

6. Reinstall any cables that had been disconnected during this procedure.
7. Use tie wraps as required to secure the new harness.
8. Make sure all connections are tight and the harness is properly secured.

Important
The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department. Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

9. Pull out emergency stops and turn the main disconnect to the ON position.
10. Elevate the aerial platform and place the maintenance support bar into its rest position.
11. Lower the aerial platform fully.
12. Follow the module calibration procedure on the following pages.

Calibration Procedure:



WARNING

Only trained and authorized personnel shall be permitted to service an aerial platform.

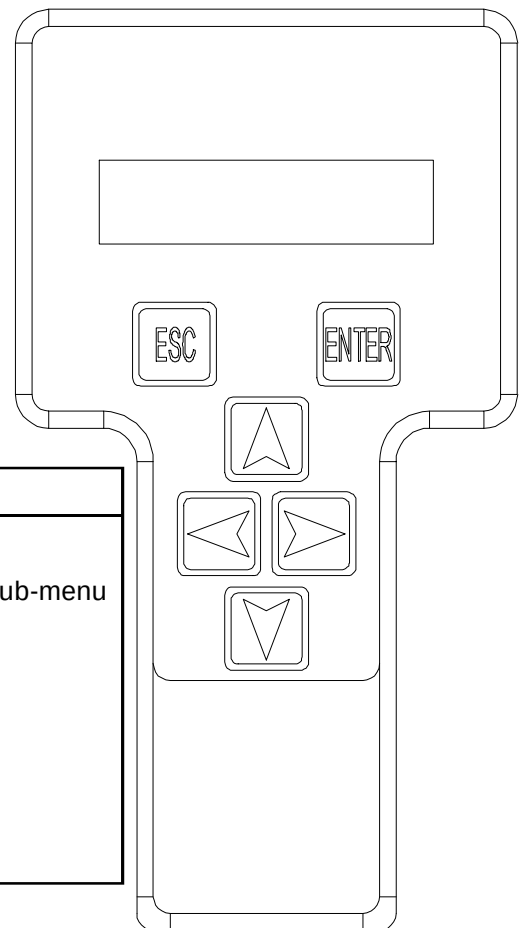


WARNING

Read all instructions closely before attempting each phase of this Procedure.

The following equipment is needed to complete this procedure.

- Easy-Cal Hand Held Calibration/Diagnostic Tool
- **JUMPER, Insulated Alligator Clip**



SYMBOL	KEY FUNCTIONS
 	ESC/ENTER BUTTONS To move back and forth between menu and sub-menu
 	LEFT/RIGHT BUTTONS Select menus and setting to be adjusted
 	UP/DOWN BUTTONS Adjust setting values

1. Move the aerial platform to a test area where the platform can be elevated to its maximum working height and reach.
2. Ensure the aerial platform is parked on a firm, level surface.

IMPORTANT

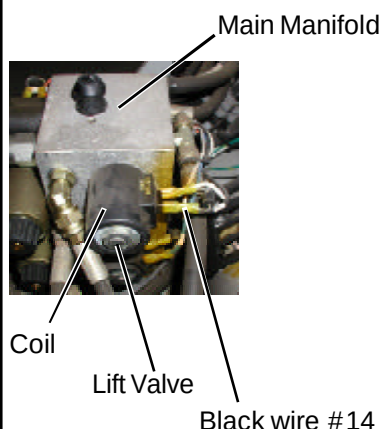
Each phase must be completed before the next phase can be carried out.
All phases must be completed before the aerial platform can be operated.

IMPORTANT

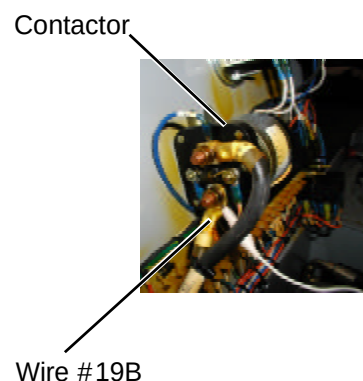
Always follow the instructions of the [Calibration](#) instrument.

IMPORTANT

Make sure the aerial platform is on BASE mode.



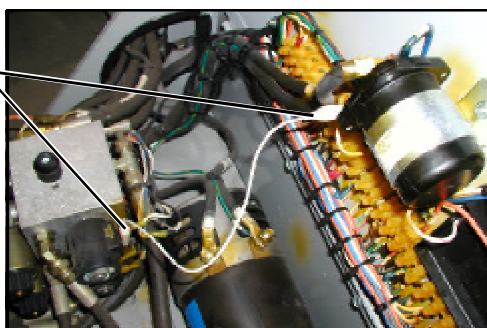
3. Locate the main manifold inside the hydraulic/electric tray.
4. Disconnect the black wire #14 from the lift coil.
5. Locate the contactor on the electrical panel assembly.
6. The jumper connection must be connected between the contactor (wire #19B) and the lift coil (instead of the black wire #14).



Note

To ensure a good and clear contact, clean the wire terminals before attaching the jumper clip.

JUMPER, Insulated Alligator Clip



7. Connect the Easy-Cal tool to the P1 connector on the CONTROL MODULE.
8. The display will show **"Help: Press Enter"**.
By using Left/Right buttons, select the "Access Level (?)" from the menu and press the **ENTER** button.

**Contact SKYJACK SERVICE DEPARTMENT At
(44) 1691-676 236 for your Access Level Code Number.**
9. The display will show **"Access Level Code (xxxx)"**.
By using the Up/Down buttons, enter the Access Level Code (xxxx) followed by pressing the **ENTER** button.
10. The display will show **"Access Level 2"**.
By using Left/Right buttons, select the **"Setups"** from the menu and press the **ENTER** button.
11. The display will show **"Machine Defaults"**.
Select the **"Machine Defaults"** from the menu and press the **ENTER** button.
12. The display will show **"Defaults, 0 = Custom"**.
By using Left/Right buttons, select the **"X = Group Code"** from the menu and press the **ENTER** button.
13. The display will show **"X=GROUP CODE"**. *(For group Code Refer to Table 1-1)*
By using the Up/Down buttons, enter the **"Group Code (?)"** then by using Left/Right buttons, select the **"Curve"** from the menu.
14. The display will show **"X=CURVE"**. *(For Curve Code Refer to Table 1-1)*
By using the Up/Down buttons, enter the **"Curve Code (?)"** followed by pressing the **ESCAPE** button.
15. The display will show **"Machine Defaults"**.
By using Left/Right buttons, select the **"Tilt Setups"** from the menu and press the **ENTER** button.
16. The display will show **"Tilt Setups: Calibrate Level"**.
Select the **"Tilt Setups: Calibrate Level"** from the menu and press the **ENTER** button.
17. The display will show **"Calibrate Level: Yes: Enter, No: ESC"**.
Select the **"Yes"** from the menu by press the **ENTER** button.
18. The display will show **"Calibrate Level: Tilt 0.0' , 0.0"**.
Select the **"ESCAPE"** from the menu once.
19. The display will show **"Tilt Setups Calibrate Level"**.
Select the **"ESCAPE"** from the menu once again.
20. The display will show **"Setups Tilt Setups"**.
By using Left/Right buttons, select the **"Load Setups"** from the menu and press the **ENTER** button.
21. The display will show **"Load Setups: Calibrate Load"**.
Select the **"Load Setups: Calibrate Load"** from the menu and press the **ENTER** button.
22. At this point, elevate the aerial platform at full height, check the harness and making sure it is not stretched tight, then lower down the platform.
23. The display will show **"Calibrate Load: Platform Down?"**.
Asking for confirmation that the platform is fully lowered?
Check that the platform is fully lowered then press the **ENTER** button to confirm.

24. The display will show **"Calibrate: Loaded Empty? No"**.
Asking for confirmation that the platform is empty?
Check that the platform is empty?
25. By using the Up/Down buttons, enter the **"Yes"** followed by pressing the **ENTER** button.
26. The display will show **"Calibrate Load: Please Lift . . ."**.
Waiting for the lift switch to be activated.
27. Hold the lift switch and keep holding it until the platform is fully elevated.

IMPORTANT

If the lift switch is released earlier than full-height position, the calibration will have to be aborted and repeated from the beginning!

28. When the system detects the lift switch closed, the display will show **"Calibrate Load: Lift Empty"**.
29. After a delay, the system will stop the platform lifting and will take height & pressure measurements; the display will show **"MEASURING # xx"** When the measurements have been taken, the platform will resume lifting.

Note

The lifting ... stopping ... measuring ... lifting process will continue until the platform reaches full height.

30. When the platform reaches full height release the lift switch.
31. The display will briefly show **"TOTAL DATA: 04"** to indicate the number of measurements taken.
32. The display will show **"Calibrate Load: Please Lower . . ."**.

IMPORTANT

If the lower switch is released earlier than full-lowered position, the calibration will have to be aborted and repeated from the beginning!

33. Hold the lower switch and keep holding it until the platform is fully lowered.
34. When the system detects the lower switch closed, the display will show **"Calibrate Load: Lower Empty"**.
35. After a delay, the system will stop the platform lowering and will take height & pressure measurements; the display will show **"MEASURING #xx"** When the measurements have been taken, the platform will resume lowering.

Note

The lowering ... stopping ... measuring ... lowering process will continue until the platform is fully lowered.

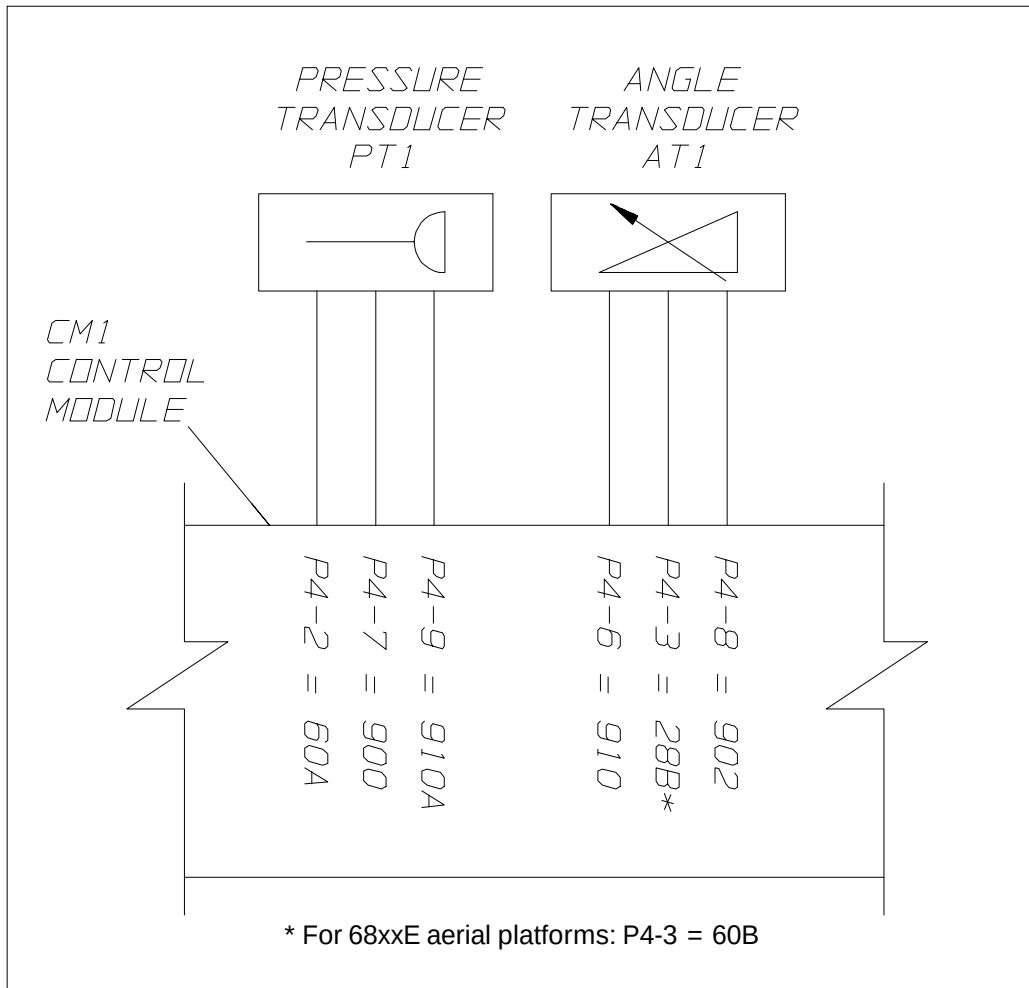
36. When the platform is fully lowered (and height 0% is displayed), release the lower switch.
37. The display will show briefly **"TOTAL DATA: 04"** to indicate the number of measurements taken.
38. The display will show **"Calibrate Load: Caldate: mm/dd/yy"**.
It is recommended that the current date be entered here to provide easy tracking of the date of last calibration. The current date must be entered using the LEFT/RIGHT and UP/DOWN buttons.
39. Press **ENTER** to complete date entry (the system will store it).
40. The display will show **"FINISHED!"**
41. Press the ESC button to exit the **"CALIBRATE LOAD"** option.
42. Remove the jumper wire and re-connect the black wire #14 to the coil removed earlier.
43. Close the hydraulic/electric tray.
44. The retrofit process is not completed until you send back the replaced parts to Skyjack Parts Department:

Skyjack Europe, Glovers Meadow, Maesbury Rd., Oswestry, Shropshire, U.K

IMPORTANT

Replaced parts **MUST** be sent back to Skyjack Parts Department in order to comply with the warranty.

Electrical Schematic



Note

For the latest schematic, please refer to the Skyjack web site: www.skyjackinc.com

Attach this schematic to the Load Sensing Operating Manual