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Skyjack scissor lift repair manual

Page 1 SERVICE MANUAL (KC) DC ELECTRIC SCISSORS MODELS SJIII 3215 SJIII 3219 165983AA November 2013... Page 2 Skyjack Brasil Alameda Júpiter, 710 American Park Empresarial Indaiautaba, SP, Brasil 13347-653 Tel.: +55 19 3936 0132 Skyjack Australia Pty Ltd. 4 Coates Place, Wetherill Park New South Wales 2164 Australia Phone: +61 (0) 28786 3200 Fax: +61(0) 28786 3222... Section 2 - Maintenance Tables Table of Contents Section 3 - Schematics Table of Contents Section 4 - Troubleshooting Table of Contents Section 5 - Procedures Table of Contents SJIII DC Electric SKYJACK, Page 3 SJIII 3215 SJIII 3219 165983... It may also be used to alert against unsafe practices. IMPORTANT IMPORTANT indicates a procedure) essential for safe operation and which, if not followed, may result in a malfunction or damage to the aerial platform. SKYJACK, Page 4 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Service Bulletins15 Maintenance and Inspection15 Maintenance Instructions15 Tables Owner's Annual Inspection Record16 Maintenance and Inspection Checklist17 Scheduled Maintenance Scheduled Maintenance Inspections18 Function Tests.....25 SJIII DC Electric SKYJACK, Page 5 SJIII 3215 SJIII 3219 165983... Page 6 Notes SKYJACK, Page 6 SJIII DC Electric SJIII 3215 SJIII 3219 165983... SKYJACK warrants each new SJIII Series work platform to be free of defective parts and workmanship for the first 24 months. Any defective part will be replaced or repaired by your local SKYJACK dealer at no charge for parts or labor. Common sense dictates the use of protective clothing when working on or near machinery. Use appropriate safety devices to protect your eyes, ears, hands, feet and body. Any modifications from the original design are strictly forbidden without written permission from SKYJACK Inc. WARNING Risk of an electric shock - Do not remove an Anti-Static Strip from the aerial platform. Over 200KV to 350KV Over 350KV to 500KV Over 500KV to 750KV Over 750KV to 1000KV FAILURE TO AVOID THIS HAZARD WILL RESULT IN DEATH OR SERIOUS INJURY! 60023AD-ANSI SJIII DC Electric SKYJACK, Page 9 SJIII 3215 SJIII 3219 165983... • DO NOT ascend or descend grade when elevated. When fully-lowered, ascend or descend grades up to maximum rated inclines listed Table 4-3a Table 4-3b. SKYJACK, Page 10 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 11 • DO NOT alter or disable • AVOID overhead obstructions. limit switches or other safety aware overhead devices. obstructions or other possible hazards around aerial platform when lifting or driving. SJIII DC Electric SKYJACK, Page 11 SJIII 3215 SJIII 3219 165983... Page 12 • DO NOT use the aerial platform or materials that exceed the confines of the without guardrails, locking pins guardrails unless approved by Skyjack. and the entry gate(s) in place. WARNING Entering and exiting the aerial platform should only be done using the three points of contact. Consult SKYJACK's Service Department for optional tires specifications and installation. Before attempting any repair work, turn Battery Disconnect Switch to the "OFF" position. The sample should be analyzed 3. Keep all connections tight, by a qualified lubrication specialist to determine if it is suitable for continued use. SKYJACK, Page 14 SJIII DC Electric SJIII 3215 SJIII 3219 165983... - Aerial platform parked on a flat and level surface - Disconnect the battery by turning the main power disconnect switch to the "OFF" position. • Repair any damaged or malfunction components before operating aerial platform. • Keep records on all inspections. SJIII DC Electric SKYJACK, Page 15 SJIII 3215 SJIII 3219 165983... This decal is located on the scissor assembly. It must be completed after an annual inspection has been completed. Do not use the aerial platform if an inspection has not been recorded in the last 13 months. Pictorial Description Inspection Date Inspector Signature SKYJACK, Page 16 SJIII DC Electric SJIII 3215 SJIII 3219 165983... D - Perform Scheduled Maintenance Inspection every 2 years. Refer to Section 1 of this manual. • Perform scheduled inspection every three months or 150 hours. † - Refer to Skyjack's website @ www.skyjack.com for latest service bulletins prior to performing quarterly or yearly inspection. Note: Make a copy of this page or visit the Skyjack web site:www.skyjack.com for a printable copy. Visually inspect all limit switch located inside the scissor loose wires: arms and the outrigger assemblies for the following: • base to platform cables and wiring harness • broken or missing actuator arm • battery tray wiring harnesses • missing fasteners • hydraulic/electrical wiring harnesses • loose wiring SKYJACK, Page 18 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 19 Ensure there are no signs of visible damage and all switches are in their neutral positions. • Free-wheeling Valve Knob (SJIII 3215/3219 - Front Side) Ensure there are no loose or missing parts and there is no visible damage. • Brakes Ensure there are no loose or missing parts and there is no visible damage. Page 20 Explosion hazard. Keep flames and sparks away. Do not smoke WARNING near batteries. Use original or manufacturer-approved parts and components for the aerial platform. SKYJACK, Page 20 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 21 Check each lug nut for proper torque to ensure none are loose. Check wheel motor assembly for loose or missing parts and signs of visible damage. Ensure wheels are aligned and true vertically and horizontally. SJIII DC Electric SKYJACK, Page 21 SJIII 3215 SJIII 3219 165983... Page 22 Refer to Section 1 - Hydraulic System & Component Maintenance and Repair. • Hydraulic Pump and Motor Ensure there are no loose or missing parts and there is no visible damage. SKYJACK, Page 22 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 23 • Lanyard Attachment Anchors Ensure attachment rings are secure and no visible damage. • AC Outlet on Platform Ensure outlet has no visible damage and free from dirt or obstructions. SJIII DC Electric SKYJACK, Page 23 SJIII 3215 SJIII 3219 165983... Page 24 Fully lower the platform. weldments. Ensure all pins are properly secured. Ensure cables and wires are properly routed and shows no signs of wear and/ or physical damage. SKYJACK, Page 24 SJIII DC Electric SJIII 3215 SJIII 3219 165983... 1.2-1 Test Main Power Disconnect Switch At rear of the base, turn main power disconnect switch to " " off position. Result: Aerial platform functions should not operate. SJIII DC Electric SKYJACK, Page 25 SJIII 3215 SJIII 3219 165983... Page 26.2. Select off/platform/base key switch to " " platform position. Attempt to raise or lower the platform. Result: Platform raising and lowering functions should not operate. SKYJACK, Page 26 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 27 Result: The platform should lower, to a fully closed position for normal operation. 4. To restore normal operation, depress and turn holding valve manual override knobs 5. Reengage the brake, clockwise. SJIII DC Electric SKYJACK, Page 27 SJIII 3215 SJIII 3219 165983... Page 28 Use the ladder of aerial platform to access platform. Close the gate. On platform control console, pull out " " emergency stop button. SKYJACK, Page 28 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 29 Result: Aerial platform should move in reverse direction, and then come to a stop. SJIII DC Electric SKYJACK, Page 29 SJIII 3215 SJIII 3219 165983... Page 30 Result: Aerial platform should come to a stop. If aerial platform pulls to one side while stopping, do not operate aerial platform until brake adjustments have been checked. SKYJACK, Page 30 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 31 5. Repeat the steps above with block placed under battery tray. Result: Aerial platform should not move 1. Push " " horn pushbutton, forward or backward. Result: Horn should sound. SJIII DC Electric SKYJACK, Page 31 SJIII 3215 SJIII 3219 165983... Page 32.2. Raise the platform until approximately a height of 2 meters (7 feet) is reached and attempt to drive forward or reverse. Result: Aerial platform should move slower than when it was in stowed position. SKYJACK, Page 32 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Section 2 MAINTENANCE TABLES AND DIAGRAMS Table of Contents Tables Specifications and Features2 Floor Loading Pressure5 Maximum Platform Capacities (Evenly Distributed)6 Torque Specifications7 SJIII DC Electric SKYJACK, Page 1 SJIII 3215 SJIII 3219 165983... Page 34 * Weight with standard 0.9 m extension platform. (Refer to nameplate for aerial platforms with 1.5 m or 1.8 m extension platform.) Note - Emission sound pressure level does not exceed 70 dB(A). SKYJACK, Page 2 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 35 Interlocking tires of different types or using tires of types other than those originally supplied with this equipment can adversely affect stability. Therefore, replace tires only with the exact original Skyjack-approved type. Failure to operate with matched approved tires in good condition may result in death or serious injury. Page 36 NOTE: The LCP or OUP that an individual surface can withstand varies from structure to structure and is generally determined by the engineer or architect for that particular structure. SKYJACK, Page 4 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 37 This aerial platform is equipped with a load sensing system. Do not exceed the rated capacity of the aerial platform. Failure to avoid this will prevent operation of all normal controls/functions of the aerial platform. To resume normal operation remove the additional loads. SJIII DC Electric SKYJACK, Page 5 SJIII 3215 SJIII 3219 165983... Page 38 Torque (Nm) max 4.07 13.56 20.34 20.34 33.9 33.9 40.68 47.46 Newton-meter = Nm Foot-pound = ft-lb Inch-pound = in-lb Additional Torque Specifications may be found in Section 3. 60654AA SKYJACK, Page 6 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Notes SJIII DC Electric SKYJACK, Page 7 SJIII 3215 SJIII 3219 165983... Notes SKYJACK, Page 8 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 41 3.12 Hydraulic Schematic (Models 3215 & 3219)17 3.13 Main Manifold Harness18 3.14 Electrical Panel Diagram19 3.15 Horn/Tilt Switch/Flashing Light Diagram20 3.16 Electrical Schematic (Equipped with all options)21 SJIII DC Electric SKYJACK, Page 1 SJIII 3215 SJIII 3219 165983... Page 42 Notes SKYJACK, Page 2 SJIII DC Electric SJIII 3215 SJIII 3219 165983... SINGLE THROW LEVEL SENSOR SWITCH RELAY DOUBLE POLE TEMPERATURE SINGLE POLE DOUBLE THROW SWITCH DOUBLE THROW SINGLE THROW RELAY RELAY RELAY TRIPLE POLE RHEOSTAT DIODE DOUBLE THROW RELAY SJIII DC Electric SKYJACK, Page 3 SJIII 3215 SJIII 3219 165983... TWO POSITION TWO POSITION FOUR WAY FOUR WAY THREE WAY VALVE CLOSED CENTER PROPORTIONAL NORMALLY CLOSED PORT OPEN VALVE PRESSURE PILOT LINES Dashed MAIN LINES Solid TRANSDUCER SERVO SKYJACK, Page 4 SJIII DC Electric SJIII 3215 SJIII 3219 165983... This table is to be used as a wire number/color reference for all electrical drawings and schematics. All wire numbers will retain their original color coding, for example if wire 7 is red, wire 7A, 7B, and 7C will also be red. SJIII DC Electric SKYJACK, Page 5 SJIII 3215 SJIII 3219 165983... Cushion Valve 4H-24 3H-17 Left Steering Valve Brake Valve 4h-23 To Filter Right Steering Valve Test Port To Proportional Valve System Relief Valve To Emergency Lowering To Cushion Valve M10589AA M163106AB-2 SKYJACK, Page 6 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 47 134431 TRANSDUCER, Pressure (2000 psi) (Model 3215) 134432 TRANSDUCER, Pressure (3000 psi) (Model 3219) 104534 VALVE, Relief (System) 104534 VALVE, Relief (Lift) 107271 VALVE (Emergency lowering) 103136 VALVE (Free-wheeling) M103136 VALVE (Free-wheeling) M103136 VALVE (Free-wheeling) 4H-15 153335 COIL, 24 Volt (Reverse drive spool valve) (Hytos) 4H-16 153335 COIL, 24 Volt (Forward drive spool valve) (Hytos) Parts list continued on the following page. SKYJACK, Page 8 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 49 RESISTOR, 16 Ohms (25W) RST3 116505 RESISTOR, Low voltage protection 119725 SWITCH, Main power disconnect 147054 N.O. CONTACT (Raise/Lower) 116382 SWITCH, Toggle (Lift/Off/Drive) Parts list continued on the following page. SJIII DC Electric SKYJACK, Page 9 SJIII 3215 SJIII 3219 165983... Page 50 N.C. CONTACT (Off/Platform) 147053 N.O. CONTACT (Base) 115574 SWITCH, Toggle (Inclined Drive/Level Drive) 147053 N.C. CONTACT (Emergency stop) (Base control console) 146658 TILT SWITCH 103336 HOURMETER - Purchased locally SKYJACK, Page 10 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 51 PIN 6 - REV/DOWN BLUE PIN 7 - PWM 59 ORANGE/BLACK 02 WHITE BLACK CRD1 PIN 8 - GND 8A BLUE PIN 9 - ENABLE VS+ WHITE/ BLUE M163169AA SJIII DC Electric SKYJACK, Page 11 SJIII 3215 SJIII 3219 165983... PIN 3 - 13 (ORANGE) PIN 4 - 14E (BLACK) PIN 5 - 10E (BLUE/BLACK) PIN 6 - 8C (BLUE/WHITE) PIN 7 - 7A (GREEN) PIN 8 - 02 (WHITE) BACK VIEW M149686AA S3 SKYJACK, Page 12 SJIII DC Electric SJIII 3215 SJIII 3219 165983... (24) BLUE BLACK BLUE WHITE (8C) (OPT) GREEN BLACK RED (07) (59) ORANGE BLACK BLACK (14) (18) RED BLACK ORANGE (13) BLUE (15) (16) WHITE BLACK WHITE (02) (NOT USED) M163170AA SJIII DC Electric SKYJACK, Page 13 SJIII 3215 SJIII 3219 165983... SKYJACK, Page 14 SJIII DC Electric PIN 1 - 17A (BLACK) PIN 7 - 19 (BLACK) LS1B SJIII 3215 SJIII 3219 PIN 2 - 21 (BLACK/WHITE) PIN 8 - 71 (BLACK/WHITE) PIN 3 - 19 (BLACK) PIN 9 - 13 (BROWN) PIN 2 - 21 (BLACK/WHITE) PIN 6 - 13B (BLUE) BROWN BLACK PIN 3 - N/U PIN 7 - N/U PIN 4 - N/U PIN 8 - N/U BLUE BLACK/WHITE LS1B LS1B M159354AC M159355SC-KC2 SJIII DC Electric SKYJACK, Page 15 SJIII 3215 SJIII 3219 165983... Page 56 Notes SKYJACK, Page 16 SJIII DC Electric SJIII 3215 SJIII 3219 165983... MAIN MANIFOLD BLOCK BRAKE BRAKE CUSHION RETURN CUSHION .051 DIA. ORIFICE 2H-25 FILTER VALVE LOWERING EMERGENCY CUSHION .040 DIA. BLOCK VALVE LOWERING VALVE BLOCK VALVE C4 BRAKE CYLINDER PUMP HYDRAULIC TANK M163550AB SJIII DC Electric SKYJACK, Page 17 SJ3215 SJ3219 165983... 02 - WHITE 23 - BLACK/WHITE 24 - BLUE/BLACK BATTERY (-) 25 - ORANGE/GREEN 00 - GREEN/YELLOW 59L - ORANGE/BLACK (14 AWG) SPLICE #1 BRAKE VALVE 17 - BLUE/RED 02 - WHITE M163547AA SKYJACK, Page 18 SJIII DC Electric SJ3215 SJ3219 165983... 22 - GREEN TO HORN 02 - WHITE PRESSURE SWITCH 49 - BLACK PIN 1 - 19A BLACK (COM) PIN 2 - 19B GREEN (NC) PIN 3 - 82 WHITE (NO) M163503AB SJIII DC Electric SKYJACK, Page 19 SJ3215 SJ3219 165983... HORN/FLASHING LIGHT HARNESS BLACK - 22 FROM ELEC. PANEL WHITE - 02 (ANSI - FEM. TERM.) WHITE - 02 (CE - RING TERM.) 02 - WHITE 22 - GREEN HORN M146648AA S3a SKYJACK, Page 20 SJIII DC Electric SJ3215 SJ3219 165983... DOZ-7 FWD/UP WHITE/BLACK 4H-16 FORWARD SOLENOID DO2-8 S7-6 17CR ENABLE ENABLE STEER RELAY BLACK/WHITE 4H-23 RIGHT SOLENOID S7-2 DO2-9 RIGHT S7-3 D17D-1 LEFT BLUE/BLACK 4H-24 LEFT SOLENOID DO2-10 D17D-2 WHITE M163179AC SJIII DC Electric SKYJACK, Page 21 SJ3215 SJ3219 165983... Page 62 Notes SKYJACK, Page 22 SJIII DC Electric SJ3215 SJ3219 165983... Page 63 Platform Drives Slow13 4.2-9 Platform will not Drive in Forward or Reverse13 4.2-10 Brake(s) will not Release13 4.2-11 Platform does not Steer13 SJIII DC Electric SKYJACK, Page 1 SJIII 3215 SJIII 3219 165983... Page 64 Notes SKYJACK, Page 2 SJIII DC Electric SJIII 3215 SJIII 3219 165983... "probable cause." The following line, noted by a dash, represents the "remedy" to the "probable cause" directly above it. See example below for clarification. 1. Probable Cause Remedy SJIII DC Electric SKYJACK, Page 3 SJIII 3215 SJIII 3219 165983... 23. Defective or tripped circuit breaker CB1. Reset circuit breaker. Replace if defective. 24. Loose or broken wire #02 from circuit breaker CB1 to base terminal block. Check continuity. Replace if defective. SKYJACK, Page 4 SJIII DC Electric SJIII 3215 SJIII 3219 165983... 3. Open or defective diode D14E-1. Check diode. Replace if defective. 4. Open or defective diode D14E-2. Check diode. Replace if defective. 5. Open diode D14A. Check diode. Replace if defective. SJIII DC Electric SKYJACK, Page 5 SJIII 3215 SJIII 3219 165983... Check continuity. Replace if defective. 3. Loose or broken wire # 13 from base terminal block to down valve 2H-13 or holding valve 2H-13-1. Check continuity. Replace if defective. SKYJACK, Page 6 SJIII DC Electric SJIII 3215 SJIII 3219 165983... 9. Loose or broken wire #02 from base terminal block to up valve coil 3H-14A. Check continuity. Replace if defective. 10. Defective up valve coil 3H-14A. Check continuity through coil. Replace if defective. SJIII DC Electric SKYJACK, Page 7 SJIII 3215 SJIII 3219 165983... Check continuity through coil. Replace if defective. 8. Loose or broken wire #02 from holding valve coil 2H-13-1 or down valve coil 2H-13 to base terminal block. Check continuity. Replace if defective. SKYJACK, Page 8 SJIII DC Electric SJIII 3215 SJIII 3219 165983... 5. Loose or broken wire #02 from steer right valve coil 4H-23 to base terminal block. Check continuity. Replace if defective. 6. Open diode D23. Check diode. Replace if defective. SJIII DC Electric SKYJACK, Page 9 SJIII 3215 SJIII 3219 165983... 6. Defective pothole protection limit switch LS5. Check switch. Replace if defective. 7. Loose or broken wire #19 from pothole protection limit switch LS5 to base terminal block. Check continuity. Replace if defective. SKYJACK, Page 10 SJIII DC Electric SJIII 3215 SJIII 3219 165983... 3. Reverse drive valve coil 4H-15 defective. Check continuity through coil. Replace if defective. 4. Loose or broken wire #02 from reverse drive valve coil 4H-15 to base terminal block. Check continuity. Replace if defective. SJIII DC Electric SKYJACK, Page 11 SJIII 3215 SJIII 3219 165983... Down function is not proportionally controlled. 1. Lowering valve 2H-13C defective or is sticking. Clean valve. Replace if defective. 2. Defective holding valve 2H-13C-1. Clean valve. Replace if defective. SKYJACK, Page 12 SJIII DC Electric SJIII 3215 SJIII 3219 165983... 2. Steer cylinder C3 seals leaking. Rebuild cylinder(s). Replace if damaged. 3. Mechanical binding in kingpins. Check for binding. Repair as needed. 4. Orifices O5 plugged. Clean orifices, and reinstall. SJIII DC Electric SKYJACK, Page 13 SJIII 3215 SJIII 3219 165983... Page 76 Notes SKYJACK, Page 14 SJIII DC Electric SKYJACK, Page 1 SJIII 3215 SJIII 3219 165983... Page 77 Safety and Workmanship3 Base 5.1-1 System Relief Pressure Adjustment3 5.1-2 Lift Pressure Adjustment4 5.1-4 Resistor - Voltage Divider8 SJIII DC Electric SKYJACK, Page 5 SJIII 3215 SJIII 3219 165983... Page 78 Notes SKYJACK, Page 2 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Turning the stem on the relief valve clockwise will increase pressure. Turning the stem counterclockwise will decrease pressure. Release steer switch and tighten the locknut. Remove the gauge from system pressure test port. SJIII DC Electric SKYJACK, Page 3 SJIII 3215 SJIII 3219 165983... NOTE operation. Red LED The tilt circuit is only powered when Green LED activating a function. Turn main disconnect switch to " " off position. SKYJACK, Page 4 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 81 Turn main disconnect switch to " " ON position. Verify switch is powered. (Red or green LED will be continually blinking) Red LED Red LED Green LED Green LED SJIII DC Electric SKYJACK, Page 5 SJIII 3215 SJIII 3219 165983... Page 82 The green LED will flash and then the red LED will turn on solid for 2 seconds. Red LED Red LED Green LED Results: The switch is verifying the new zero position. SKYJACK, Page 6 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 83 On together, no blinking when Green & Red LED fault detected. Tilt Circuit Test Refer to section 2 for test tilt sensor procedure. SJIII DC Electric SKYJACK, Page 7 SJIII 3215 SJIII 3219 165983... * 4.8 volts refers to full stroke on the joystick. 24 volts represents a full charge on the battery pack. ** Values given are with all connections tight and free from corrosion + or - 10%. SKYJACK, Page 8 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 85 Notes SJIII DC Electric SKYJACK, Page 9 SJIII 3215 SJIII 3219 165983... Page 86 Notes SKYJACK, Page 10 SJIII DC Electric SJIII 3215 SJIII 3219 165983... Page 88 www.skyjack.com...

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