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Kontrol Height Adjustable Assembly Instructions



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Assembly Method Guidelines Please Take care during the assembly. Please note the following: Always ensure weight is distributed evenly across the worktop Cables to be managed through the cross frame channels via the round cut-outs and never under the frame as they may get trapped when the worktop is in its lowest position. When raising the worktop, ensure none of the other buttons are pressed simultaneously with the paddle. Do not tap the paddle up or down rapidly adjusting the worktop in small increments. Do not exceed the maximum cable space of the energy chain. Cables Linking the control box to the actuators must be inserted with care to prevent the pins being bent over. Desk must be leveled left to right and front and back during installation. Desk should not be moved once fully assembled, and not lifted via the worktops. No items should be left on the rear sub top to prevent any obstructions when the console is lowered. Be careful not to trap chairs in the worktop when lowering Turn off mains power to the control box before fitting or removing actuator or paddle cables.

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Step 16:

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Attatch the Black Cable Management Chain to the Frame using the **10mm M6 Allen Bolt (F)** fixing and **Washer (E)**.



The Black Cable Management Chain will need to be pulled out from the internal of the Leg Assembly



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Worktop Connection order:
1. Biscuit and Worktop Connectors - Tight
2. Loose Worktop Fixings to Frame
3. Align
4. Tighten Worktop Fixings to Frame

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Symbol	Description	Function
,	Reminder	Setting Reminders
*	Bluetooth	Connecting the Desk Control App Via Bluetooth wireless technology
*	Favourite	Saving favourite positions

Adjusting the displayed height of the desk

If the height shown in the display is not correct, it can be adjusted.

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- 1. Press **a** and the **buttons** on the paddle at the same time for 5 seconds and the height in the display starts to flash.
- 2. Tilt the paddle to change the displayed height without moving the desk. Up to increase height, down to decrease height.
- 3. Press any button to confirm the height or wait 10 seconds for automatic confirmation.

Changing the Measurment Unit

The measurement unit shown in the display can be set to either cm or inch.

- 1. Press \star and \ast buttons on the controller at the same time for 5 seconds and the current measurement unit flashes in display.
- 2. When e.g "CM" flashes in display, tilt the paddle once to change the measurement to inches. "INCH" now flashes in the display.

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3. Press any button to confirm measurement unit or wait for 10 seconds for automatic confirmation.

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Height Adjustable Troubleshooting

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Glossary of Common Terms

Components

» Console leg (DL) – The lifting columns, typically with powder coated steel profiles, responsible for lifting the working load of the application.

» Control box (CBD6S) – Both the computer and power supply of the system.

» Desk panel (DP) – The user interface. Depending on the model, it is used to activate the application, set memory positions, display the height, display error codes, connect to mobile apps, and give reminders to the user.

» Motor cable – Transmits low voltage power (18-39 VDC) from the control box to the desk legs, and also transmits PIEZO signals when available from the desk leg.

» Mains cable – Transmits high voltage power (120 VAC in US and Canada) to the control box.

Other

» Initialize – Procedure to reset all desk legs to the fully retracted position so that the control box knows where they are. » Reference – Any group of desk legs that run in parallel when an Up or Down command is sent to the control box. It is possible to have a custom control box configuration that allows for more than one Reference. [Example: Two (2) desk legs on Reference #1 (Channels

Standard Troubleshooting Procedures

P1 – Initialize the control box ("reset")

Note: This is commonly the solution when a complaint is that a desk will move down but not up. When a control box requires initialization, this is how the system is programmed to behave.

STEP 1. Hold Down button on desk panel to ensure the desk is retracted to its lower limit (whether it's the fully retracted hard stop, or a configured lower limit).

STEP 2. Briefly release Down

STEP 3. Press and hold Down for 5 seconds, wait until all desk movement has stopped, then release

a. If initialization is successful, you should see a slight up/down "handshake" movement of the desk legs

b. If you have a desk panel with display, you should also see E01 during this part of the procedure.

P2 – Check all cable connections

STEP 1. Mains cable, connected to both the control box and power outlet.

STEP 2. All motor cables, connected to both the control box and desk leg.

a. Assuming a standard control box configuration, these must be connected in channels 1 and 2, or channels 1, 2 and 3 for a 3-leg table. They can't be connected in channels 1 and 3 or 2 and 3 unless there is a configuration on the control box specifying this arrangement.

STEP 3. Desk panel cable, connected to the control box in either port A1 or A2 (doesn't matter which)

P3 – Check for obstructions

STEP 1. Check under, above and on the sides of the desk for any obstructions that could prevent movement in either direction. The next two procedures (P4 and P5) are for a two leg desk system. The same concepts can be used for a three leg system using Channel 3 and so forth.

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P4 – Check for faulty component(s) WITH error codes (digital display on Desk Panel, or on app via Bluetooth)

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	Symptom	Procedure
-	System will move down but not up	1. Initialize (P1)
	System unresponsive (no power to display with any button is pressed).	1. Check mains cable connection
	If any of these steps activates the digital display, initialize the system	 Test power outlet using another device (lamp, phone charger, etc.) Dug in a new quitteb and test
	(P1).	 3. Plug in a new switch and test 4. Connect all existing cohlects a new control her and test
С		4. Connect all existing cables to a new control box and test
	System is powered, but will not	1. Try pressing and releasing the down button a few times before pressing and holding for 5 seconds.
\rightarrow	initialize	2. Also, be aware if the control box has a special configuration: If the desk is programmed with a lower stroke limit, so as to avoid a something like a file cabinet, it is possible that it also has a custom, longer Forced Initialization Time. This is the time required to ho initialization begins. Sometimes this is 10 seconds or longer.
		3. If you have a standard control box without a special configuration (i.e. "Plug & Play"), try to initialize each leg in Channel 1 by itse plugged into the motor channels on the control box. Also, swap the motor cables so that a different motor cable is used to initialize The problem could be a faulty desk leg or a faulty motor cable.
В	Channel-specific error (Ex: E41 – Channel 1 overload) – Everything except PIEZO errors (E59-E63)	1. Swap the motor cable connections at the control box (Motor cable #1 from channel 1 to 2, motor cable #2 from channel 2 to 1). I problem with the application (load or obstruction on one side) or a bad control box. If the error changes to E42, go to step 2.
		2. Swap the motor cable connections at the desk legs, so that the leg that was originally connected to Channel 1 is back in Channel that was originally connected to Channel 2. If it remains E42, it is most likely a bad motor cable, now connected to Channel 2. If it go bad desk leg, now connected to Channel 1.
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l a collision with hold Down before

tself, with nothing else ize Channel 1 by itself.

). If It remains E41, there could be a

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el 1, but with the motor cable t goes back to E41, it is most likely a

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_	Symptom	Procedure
	Desk is uneven	1. Initialize the desk. If both legs begin to run down, complete the initialization. If only one leg moves, stop and move to Step 2.
		2. Check motor cable connections. Check to ensure motor cables are not pulled during movement. With a standard, Plug & Play is connected, and connected to Channel 1. In this case, it will initialize and run Channel 1 only. If there is only one leg but it's con
		3 . If a motor cable was disconnected, try initializing again.
		4. If unsuccessful, connect the desk leg from Channel 2 into Channel 1, with nothing in Channel 2, and initialize.
С		5. Try initializing the same leg that's in Channel 1, but with a different motor cable. If it still won't initialize, replace the desk leg.
-	P5 – Check for faulty component WITH	HOUT error codes (no digital display on Desk Panel, no Bluetooth)
\triangleright	Symptom	Procedure
	System will move down but not up	1. Initialize (P1)
В	System will not initialize. OR System won't complete the full range of motion.	 Check mains cable connection. Test power outlet using another device (lamp, phone charger, etc.) Plug in a new switch.
		3. Connect all existing cables to a new control box.
	 After each of these steps, attempt to initialize (P1). 	 3. Connect all existing cables to a new control box. 4. Try pressing and releasing the down button a few times before pressing and holding for 5 seconds.
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Appendix

What is the Control Box Thinking?

There are many clever procedures, checks and measurements performed in the control box. Here is a brief description of what the control box is trying to accomplish while it is activating an application:

• Safe activation of the application

o Parallel, even movement of all desk legs in the application is critical. » The control box does not directly know the position of each desk leg. Instead, the position of each leg is constantly calculated via Hall pulses from each motor. The legs on a single reference are not allowed to be more than +/- 5 Hall pulses out of sync. For a standard DL, this amounts to +/- 0.55 mm. » Motor cable disconnections are also detected as errors.

o If PIEZO technology is present in the desk leg, the control box monitors for PIEZO "collision" signals from each channel. When a PIEZO signal is sensed, movement is immediately stopped and, if there is room, the system is ran in the opposite direction a small distance.

o Anytime the control sees an incomplete signal, or more than one signal (multiple keys pressed, multiple desk panels activated at the same time), an error is determined and no movement is allowed at that moment. This is to prevent an action of movement that is not intended by the user.

Protection from equipment damage

o Internal temperature of the control box is monitored.

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o Maximum current draw for each motor channel, as well as the system as a whole, is measured. When the current exceeds an allowable limit, an error is presented.

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	ERROR CODE	NAME	DESCRIPTION	POTENTIAL CAUSE	
	E01	Position Lost	The desk has an unknown position and needs to be initialized	» Position error» New Desk Leg added	
	E02	General Overload Up	Overload in upward direction has occurred	» Obstruction» Bad leg or motor cable	
С	E03	General Overload Down	Overload in downward direction has occurred	» Obstruction » Bad leg or motor cable	
	E08	Watchdog	Indicate that software failed to kick watchdog	» Program fault	
В	E09	LIN collision	Collisions detected on the LIN bus	 » Key pressed on two or more connected handset simultaneously » Multiple LINBUS devices activated 	
_	E10	Power fail	Power fail happened, or power regulator adjusted below 10%	 » Mains cable pulled during driving » Internal fault » Only 1 battery for a 3- or 4-channel system » "E10 is a power fail, voltage on power supply drops below a certain limit, power removed" 	
				drops below a certain limit,	

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• Initialize the system (P1)

Check all cable connections, (P2) initialize the system (P1)
Troubleshoot components by initializing 1 at a time (only possible with Plug & Play configuration) (P4)

Check all cable connections, (P2) initialize the system (P1)
Troubleshoot components by initializing 1 at a time (only possible with Plug & Play configuration) (P4)

- Unplug mains cable for 15 sec
- Initialize the system (P1)
- Replace Control Box

Check if another desk panel is connected and being activated
Unplug all but one desk panel

and test system

Check mains cable is not caught, and is allowed to freely travel
Use strain-relief loop built into control box
Use a 2nd battery; charge batteries

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ERROR CODE	NAME	DESCRIPTION	POTENTIAL CAUSE	TRO
E11	Channel mismatch	Change in number of actuators since initialization	 » Disconnection » Desk Leg added 	•
E12	Position error	One channel have position different than others	» Too much back drive occurred	Þ •
E13	Short circuit	Short circuit detected during operation	» Squeezed Motor Cable » Short in motor	(I •
E15	Power limit	System has reached its power limitation	 » Mains cable pulled during driving » Internal fault » Many times will see this alongside E10 » "E15 is when power regulator has adjusted speed down on actuators without any significant current draw, usually caused by power supply dropping." 	• a c
E16	Key Error	Illegal keys pressed (handled internally in DP1C).	» Hitting multiple buttons simultaneously	•
E17	Safety missing	LIN bus unit does not support safety feature	» DP1C/DPF1C does not have up-to-date software	• s c
E18	Missing Initialization plug	A special service tool is required to change number of channels to the system	[BASELIFT Only] » Service tool missing from BASELIFT system when initializing	•
E23	Ch1 missing	Channel 1 is detected missing	 » Disconnection » Faulty motor cable » Faulty motor in leg 	ē

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 Check Motor cable connections and Integrity (P2) Change Motor cable or Desk Leg Initialize the system (P1) Move table to fully retracted position Initialize system (P1)
 Check motor cable connections (P2) Isolate and replace Motor Cable (P4) Isolate and replace Desk Leg (P4)
 Check mains cable is not caught, and is allowed to freely travel Use strain-relief loop built into control box
Check desk panel
• Try DP with more recent software version (printed on label)
Add service tool
 Check Motor cable connections and Integrity (P2) Change Motor cable or Desk Leg Initialize the system (P1)

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ERROR CODE	ΝΑΜΕ	DESCRIPTION	POTENTIAL CAUSE	TR
E24	Ch2 missing	Channel 2 is detected missing	 » Disconnection » Faulty motor cable » Faulty motor in leg 	· · · ·
E25	Ch3 missing	Channel 3 is detected missing	» Disconnection» Faulty motor cable» Faulty motor in leg	
E26	Ch4 missing	Channel 4 is detected missing	 » Disconnection » Faulty motor cable » Faulty motor in leg 	
E29	Ch1 type	Channel 1 is not same type as when initialized	» Change in Desk Leg type » Loose wire inside motor	
E30	Ch2 type	Channel 2 is not same type as when initialized or not same type as channel 1	 » Change in Desk Leg type » Loose wire inside motor 	
E31	Ch3 type	Channel 3 is not same type as when initialized or not same type as channel 1	 » Change in Desk Leg type » Loose wire inside motor 	
E32	Ch4 type	Channel 4 is not same type as when initialized or not same type as channel 1	 » Change in Desk Leg type » Loose wire inside motor 	
E35	Ch1 pulse fail	Channel 1 had to many pulse errors	» Loose/faulty cable» Hall sensor PCB	
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 Check Motor cable connections and Integrity (P2)Change Motor cable or Desk Leg D

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- Initialize the system (P1)
- Check Motor cable connections and Integrity (P2)
- Change Motor cable or Desk Leg
 Initialize the system (P1)
- Check Motor cable connections
- and Integrity (P2) Change Motor cable or Desk Leg
- Initialize the system (P1)
- Check Desk Leg type
- Change Desk Leg
- Initialize the system (P1)
- Check Desk Leg type
- Change Desk Leg
- Initialize the system (P1)
- Check Desk Leg type
- Change Desk Leg
- Initialize the system (P1)

 Check Desk Leg type • Change Desk Leg • Initialize the system (P1)

- Check motor cable connections
- and integrity (P2)
- Change Desk Leg

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• Initialize the system (P1)

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ERROR CODE	NAME	DESCRIPTION	POTENTIAL CAUSE	
E36	Ch2 pulse fail	Channel 2 had to many pulse errors	» Loose/faulty cable » Hall sensor PCB	
E37	Ch3 pulse fail	Channel 3 had to many pulse errors	» Loose/faulty cable» Hall sensor PCB	
E38	Ch4 pulse fail	Channel 4 had too many pulse errors	» Loose/faulty cable » Hall sensor PCB	
E41	Ch1 overload up	Overload up occurred on channel 1	 » Leg is overloaded » Hit obstruction » Reached end stop (before initialization at upper endstop occurs) 	
E42	Ch2 overload up	Overload up occurred on channel 2	 » Leg is overloaded » Hit obstruction » Reached end stop (before initialization at upper endstop occurs) 	
E43	Ch3 overload up	Overload up occurred on channel 3	 » Leg is overloaded » Hit obstruction » Reached end stop (before initialization at upper endstop occurs) 	
E44	Ch4 overload up	Overload up occurred on channel 4	 » Leg is overloaded » Hit obstruction » Reached end stop (before initialization at upper endstop occurs) 	

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• Check motor cable connections and integrity (P2)

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- Change Desk Leg • Initialize the system (P1)
- Check Motor cable connections and Integrity (P2)
- Change Motor cable or Desk Leg
 Initialize the system (P1)
- Check Motor cable connections
- and Integrity (P2)
- Change Motor cable or Desk Leg
- Initialize the system (P1)
- Remove obstruction (P3)
- Remove load
- Initialize if necessary (P1)
- Remove obstruction (P3)
- Remove load
- Initialize if necessary (P1)
- Check Desk Leg type Change Desk LegInitialize the system (P1)

• Remove obstruction (P3) Remove load • Initialize if necessary (P1)

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ERROR CODE	NAME	DESCRIPTION	POTENTIAL CAUSE	TRC
E47	Ch1 overload down	Overload down occurred on channel 1	» Hit obstruction	
E48	Ch2 overload down	Overload down occurred on channel 2	» Hit obstruction	•
E49	Ch3 overload down	Overload down occurred on channel 3	» Hit obstruction	•
E50	Ch4 overload down	Overload down occurred on channel 4	» Hit obstruction	•
E53	Ch1 anti-col	Anti-collision triggered on channel 1	» Hit Obstruction	•
E54	Ch2 anti-col	Anti-collision triggered on channel 2	» Hit Obstruction	•
E55	Ch3 anti-col	Anti-collision triggered on channel 3	» Hit Obstruction	•
E56	Ch4 anti-col	Anti-collision triggered on channel 4	» Hit Obstruction	• F • I

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- Remove obstruction (P3)
- Initialize if necessary (P1)
- Remove obstruction (P3)
- Initialize if necessary (P1)
- Remove obstruction (P3)
- Initialize if necessary (P1)
- Remove obstruction (P3)
- Initialize if necessary (P1)
- Remove obstruction (P3)
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- Remove obstruction (P3)Initialize if necessary (P1)
- Remove obstruction (P3)
- Initialize if necessary (P1)
- Remove obstruction (P3)Initialize if necessary (P1)

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	ERROR CODE	NAME	DESCRIPTION	POTENTIAL CAUSE	TR
	E59	Ch1 SLS/PIEZO	Safety limit switch activated on channel 1	» Hit obstruction	
	E60	Ch2 SLS/PIEZO	Safety limit switch activated on channel 2	» Hit obstruction	
С	E61	Ch3 SLS/PIEZO	Safety limit switch activated on channel 3	» Hit obstruction	
\rightarrow	E62	Ch4 SLS/PIEZO	Safety limit switch activated on channel 4	» Hit obstruction	
В	E65	Ch1 pulse dir	Pulses counted wrong direction in channel 1	 » Motor poles are crossed » Hall sensor Cables are crossed 	
	E66	Ch2 pulse dir	Pulses counted wrong direction in channel 2	 » Motor poles are crossed » Hall sensor Cables are crossed 	
	E67	Ch3 pulse dir	Pulses counted wrong direction in channel 3	 » Motor poles are crossed » Hall sensor Cables are crossed 	
	E68	Ch4 pulse dir	Pulses counted wrong direction in channel 4	 » Motor poles are crossed » Hall sensor Cables are crossed 	
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- Remove obstruction (P3)
- Initialize if necessary (P1)
- Remove obstruction (P3)
- Initialize if necessary (P1)
- Remove obstruction (P3)
- Initialize if necessary (P1)
- Remove obstruction (P3)
- Initialize if necessary (P1)

Check motor cable connections

- and integrity (P2)
- Change Desk Leg
- Initialize the system (P1)

Check motor cable connections and integrity (P2)Change Desk Leg

• Initialize the system (P1)

Check motor cable connections and integrity (P2)
Initialize the system (P1)

Check motor cable connections and integrity (P2)
Initialize the system (P1)

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	ERROR CODE	NAME	DESCRIPTION	POTENTIAL CAUSE	
_	E71	Ch1A short	Short circuit on channel 1 [If T-splitter is used, short circuit on 1A]	 » Damage to motor cable » Damage to cable exiting leg (if applicable) 	
	E72	Ch1B short	Short circuit on channel 1 [If T-splitter is used, short circuit on 1B]	 » Damage to motor cable » Damage to cable exiting leg (if applicable) 	
C	E73	Ch2A short	Short circuit on channel 2 [If T-splitter is used, short circuit on 2A]	 » Damage to motor cable » Damage to cable exiting leg (if applicable) 	
	E74	Ch2B short	Short circuit on channel 2 [If T-splitter is used, short circuit on 2B]	 » Damage to motor cable » Damage to cable exiting leg (if applicable) 	
В	E75	Ch3A short	Short circuit on channel 3 [If T-splitter is used, short circuit on 3A]	 » Damage to motor cable » Damage to cable exiting leg (if applicable) 	
	E76	Ch3B short	Short circuit on channel 3 [If T-splitter is used, short circuit on 3B]	 » Damage to motor cable » Damage to cable exiting leg (if applicable) 	
	E77	Ch4A short	Short circuit on channel 4 [If T-splitter is used, short circuit on 4A]	 » Damage to motor cable » Damage to cable exiting leg (if applicable) 	
Α	E78	Ch4B short	Short circuit on channel 4 [If T-splitter is used, short circuit on 4B]	 » Damage to motor cable » Damage to cable exiting leg (if applicable) 	

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Inspect motor cable for damage, replace if damaged
Inspect cable exiting leg (if applicable), replace if damaged. D

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Inspect motor cable for damage, replace if damaged
Inspect cable exiting leg (if applicable), replace if damaged.

Inspect motor cable for damage, replace if damaged
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Inspect cable exiting leg (if applicable), replace if damaged.

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	ERROR CODE	NAME	DESCRIPTION	POTENTIAL CAUSE	TROU
_	E86	Master	Connection to master lost OR following messages are from master	[Only used in multi-parallel system] » Poor cable connection to master box » If followed by another error code, then codes being communicated from master box	ch
С	E87	Slave 1	Connection to 1st slave lost OR following messages are from 1st slave	[Only used in multi-parallel system] » Poor cable connection to slave box » If followed by another error code, then codes being communicated from slave box	• (ch • I co
B	E88	Slave 2	Connection to 2nd slave lost OR following messages are from 2nd slave	[Only used in multi-parallel system] » Poor cable connection to slave box » If followed by another error code, then codes being communicated from slave box	• C che • If coc
	E89	Slave 3	Connection to 3rd slave lost OR following messages are from 3rd slave	 » Damage to motor cable » Damage to cable exiting leg (if applicable) 	• I rep • I ap
_	E93	DeskSensor 1 – Activation	Detected trigger from LIN bus safety limit switch, e.g. DS1	» Hit obstruction	• R
A	E94	DeskSensor 1 – Not Responding	LIN SLS unit (e.g. DS1) no longer responding	» LIN SLS unit (e.g. DS1) or cables are not connected	• E ar
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• Check connection to master box,

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check cable integrity

• If communicating other error

codes, see above

Check connection to master box, check cable integrity
If communicating other error codes, see above

Check connection to master box, check cable integrity
If communicating other error codes, see above

Inspect motor cable for damage, replace if damaged
Inspect cable exiting leg (if applicable), replace if damaged.

• Remove obstruction

• Ensure DS1 unit and all cables are correctly mounted.