

TP33 PANEL / BLACK BOX TROUBLESHOOTING GUIDE

FAILURE 1

HEATER/LIGHTS/SLIDE ROOM/AWNING and other devices out of control or no response. eg: Slide Room/Awning light keep runing but never stops and the lights keep on.

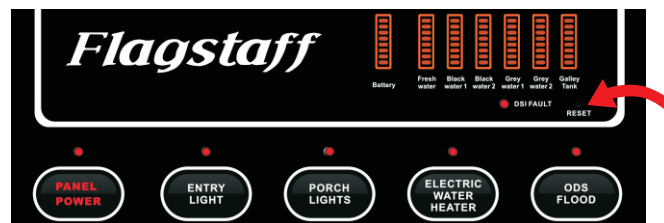
Solution:

Troubleshoot according to below steps:

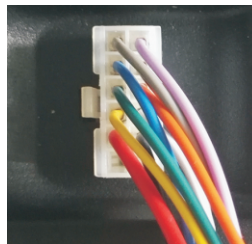
Step 1: Press TP33 PANEL "POWER" button to turn off the device and then turn it on. If it doesn't solve the problem, go to the next step.



Step 2: Use a hard fine-needle to reset TP33 PANEL and Black box. If it doesn't solve the problem, go to the next step.



Step 3: Pull out Black box 12PIN socket. If it doesn't solve the problem, go to the next step.



Step 4: Cut off the main power switch of the RV.

Step 5: Cut off the corresponding SLIDE/AWNING power input connecting wires from the Black box and insulate the end of the wires immediately.

WIRE CONNECTION	
A. BLACK - GROUND	29. TANK HEATER (OUT)
B. RED - MEMORY (12V)	30. TANK HEATER (IN)
C. WHITE - BLACK WATER 2 INPUT	31. ODS FLOOD (OUT)
D. YELLOW - DSI RESET (+12V)	32. ODS FLOOD (IN)
E. ORANGE - FRESH WATER INPUT	43. SLIDE ROOM 3 (OUT)
F. GREEN - OPTION INPUT	44. SLIDE ROOM 3 (OUT)
G. BROWN - BLACK WATER 1 INPUT	45. GROUND
H. BLUE - GALLEY INPUT	46. +12V/5A
I. PURPLE - GREY WATER 1 INPUT	47. SLIDE ROOM 2 (OUT)
J. GREY - GREY WATER 2 INPUT	48. SLIDE ROOM 2 (OUT)
	49. GROUND
	50. +12V/5A
	51. SLIDE ROOM 1 (OUT)
	52. SLIDE ROOM 1 (OUT)
	53. GROUND
	54. +12V/5A
	55. AWNING 2 (OUT)
	56. AWNING 2 (OUT)
	57. GROUND
	58. +12V/5A



Warning:

STEP 4, 5 ONLY BE DONE BY PROFESSIONALS. MUST INSULATE THE ENDS OF WIRES IMMEDIATELY AFTER CUTTING OFF THE WIRES.

FAILURE 2

TP33 PANEL BUTTON doesn't work.

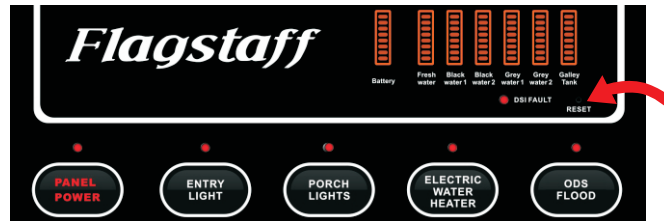
Solution:

Troubleshoot according to below steps:

Step 1: Press TP33 PANEL "POWER" button to turn off the device and then turn it on. If it doesn't solve the problem, go to the next step.



Step 2: Use a hard fine-needle to reset TP33 PANEL and Black box. If it doesn't solve the problem, go to the next step.



Step 3: Replace with a new TP33 panel.

FAILURE 3

Some buttons on TP33 do not work. eg: Slide Room1,Awning do not work

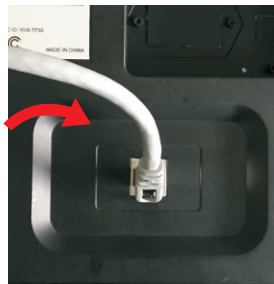
Solution:

Troubleshoot according to below steps:

Step 1: Replace TP33 Control panel with a new one. If it doesn't solve the problem, go to the next step.

Step 2: Replace RSB66 Black Box with a new one.

Step 3: Pull out RJ45 connector from TP33. If it doesn't solve the problem, go to the next step.



Step 4: Replace with a new TP33 panel.

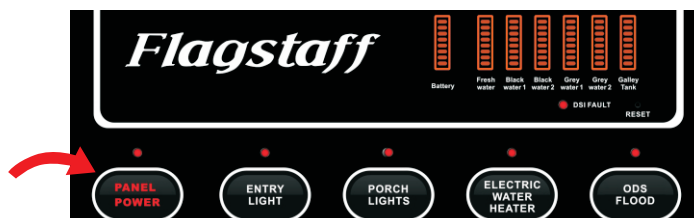
FAILURE 4

TP33 DSI FAULT Display Error

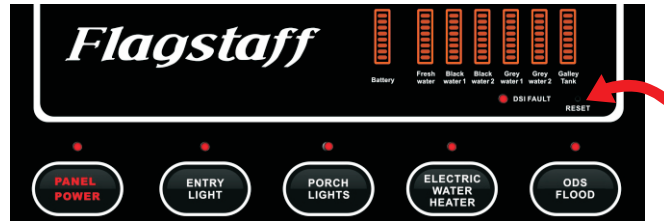
Solution:

Troubleshoot according to below steps:

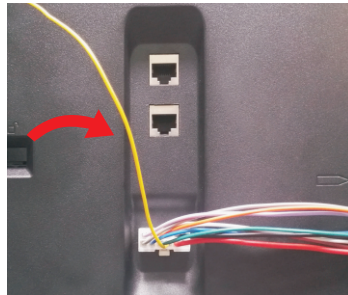
Step 1: Press TP33 PANEL "POWER" button to turn off the device and then turn it on. If it doesn't solve the problem, go to the next step.



Step 2: Use a hard fine-needle to reset TP33 PANEL and Black box.If it doesn't solve the problem, go to the next step.



Step 3: Examine and repair DSI FAULT yellow cable.



Step 4: Replace with a new TP33 panel.

NOTE:

If DSI FAULT display error still exists after replacement of new black box, please check the peripheral circuit connecting the black box.

FAILURE 5

TP33 TANK LEVEL Display Error

Solution:

Upgrade the software to match the hardware. Refer to "Upgrade the RSB66 software SOP" for detailed upgrade steps.

NOTE:

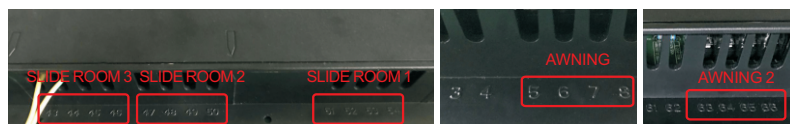
Select the right software version in accordance with the production batch. eg: Use V1.25h for devices S/N:160600001-160602040.

FAILURE 6

SLIDE/AWNING Cannot Retract.

Solution 6-1:

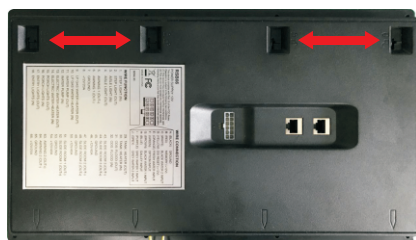
Step 1: Check if there is any unused SLIDE/AWNING ports on RSB66 Black box?. If yes, please troubleshoot according to below steps; If no, please refer to Solution2.



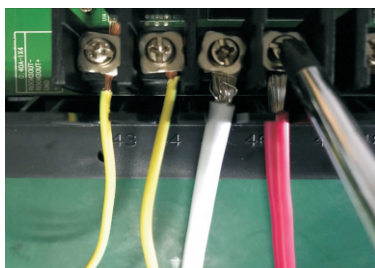
NOTE:

SLIDE ROOM1/ROOM2/ROOM3 ports number:43-54, AWNING1/2 ports number: 63-66,5-8.

Step 2: Cut off the main power switch of the RV; Open upper cover of RSB66 and then take down the "defective" SLIDE/AWNING wires with a screwdriver from RSB66.

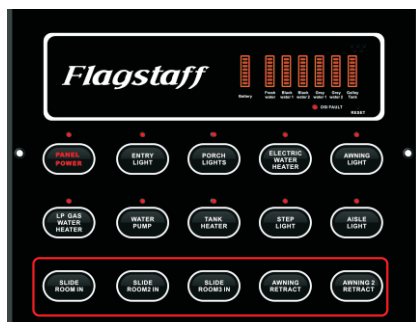


Step 3: Connect the SLIDE/AWNING wires to the corresponding and unused SLIDE/AWNING ports. Refer to PCB board silk screening to find the correct ports.



Step 4: Switch on the main power of RV.

Step 5: Press TP33 button to retract SLIDE/AWNING.



Solution 6-2:

Step 1: Open upper cover of RSB66 Black box and then take down all the "defective" SLIDE/AWNING OUT+ and OUT- wires.

Step 2: Connect SLIDE/AWNING OUT+ wire to GND and OUT- wire to 12V. Cut off the connecting wires between SLIDE/AWNING and power supply immediately after SLIDE/AWNING retracts.

Step 3: Insulate the ends of the SLIDE/AWNING wires and drive RV to designated after-sales maintenance station.



NOTE:

Try solution 6-3 if the RV is at campsite as it's hard to disassemble upper cover of RSB66 Black box.

Solution 6-3:

Step 1: Cut off the main power switch of the RV.

Step 2: Cut off SLIDE/AWNING OUT+,OUT-,12V,GND wires with a plier from the ends on the RSB66 black box.

Step 3: Connect OUT+ wire from RV to GND and OUT- wire to 12v, and insulate both negative and positive ends of the wires to the power supply.

WIRE FUNCTION	
1. STEP LIGHT (IN)	29. TANK: HEATER (OUT)
2. STEP LIGHT (OUT)	30. TANK: HEATER (IN)
3. AISLE LIGHT (IN)	31. ODS: FLOOD (OUT)
4. AISLE LIGHT (OUT)	32. ODS: FLOOD (IN)
5. AWNING 1 (OUT+)	43. SLIDE ROOM 3 (OUT-)
6. AWNING 1 (OUT-)	44. SLIDE ROOM 3 (OUT+)
7. GROUND	45. GROUND
8. +12V/20A	46. +12V/40A
9. LP GAS WATER HEATER (OUT)	47. SLIDE ROOM 2 (OUT-)
10. LP GAS WATER HEATER (IN)	48. SLIDE ROOM 2 (OUT+)
11. WATER PUMP (OUT)	49. GROUND
12. WATER PUMP (IN)	50. +12V/40A
13. ELECTRIC WATER HEATER (OUT)	51. SLIDE ROOM 1 (OUT-)
14. ELECTRIC WATER HEATER (IN)	52. SLIDE ROOM 1 (OUT+)
15. PORCH LIGHTS (OUT)	53. GROUND
16. PORCH LIGHTS (IN)	54. +12V/40A
17. ENTRY LIGHTS (OUT)	63. AWNING 2 (OUT+)
18. ENTRY LIGHTS (IN)	64. AWNING 2 (OUT-)
	65. GROUND
	66. +12V/20A

Example: SLIDE ROOM3 cannot retract

Port No.	Wire Definition	Wire Color	Wire Pairing
43	SLIDE ROOM3 OUT-	RED	43&46; 44&45.
44	SLIDE ROOM3 OUT+	WHITE	
45	GROUND	WHITE	
46	12V/40A	RED	

Step 4: Swith on main power of RV. Cut off the connecting wires between SLIDE/AWNING and power supply immediately after SLIDE/AWNING retracts.

Step 5: Disconnect OUT+ wire to GND, and OUT- to 12V. Insulate the ends of wires.

Step 6: Swith on main power of RV and drive RV to designated after-sales maintenance station.