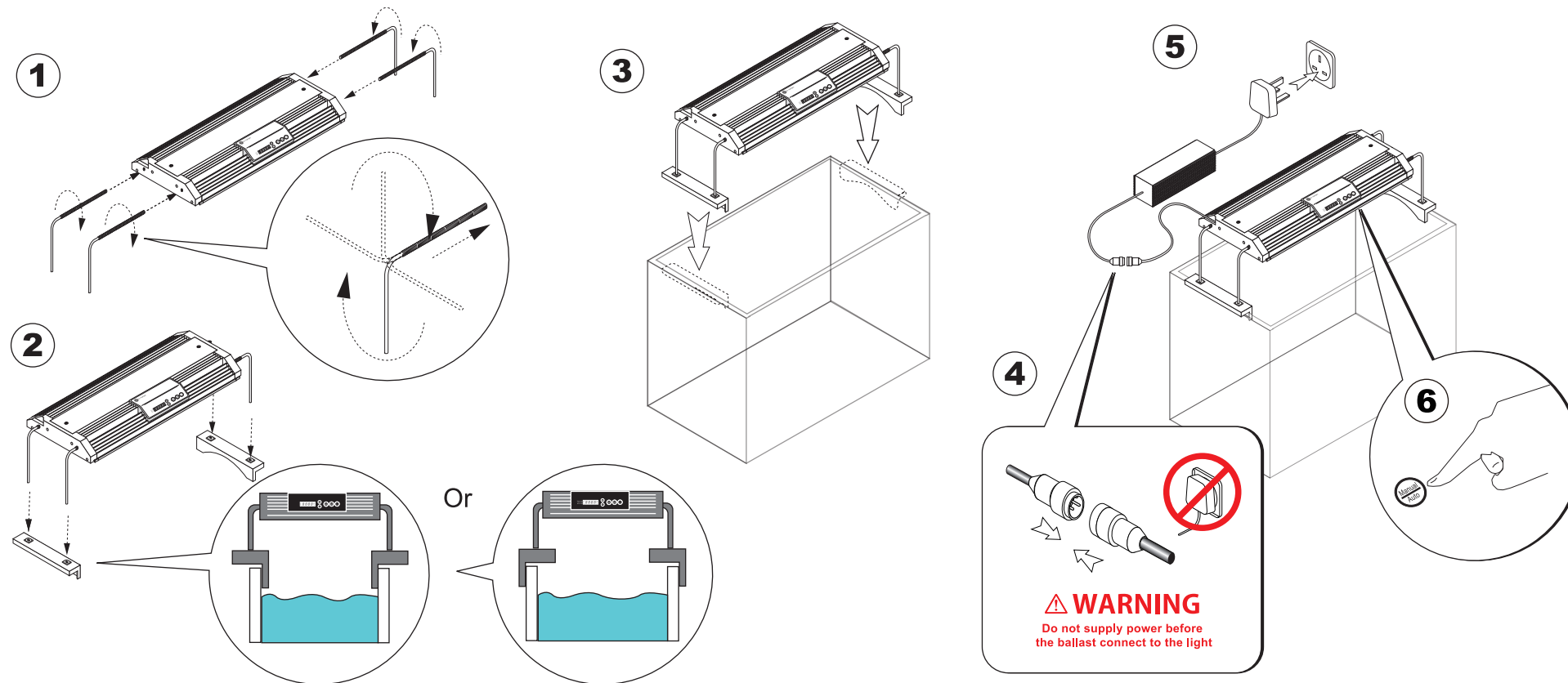
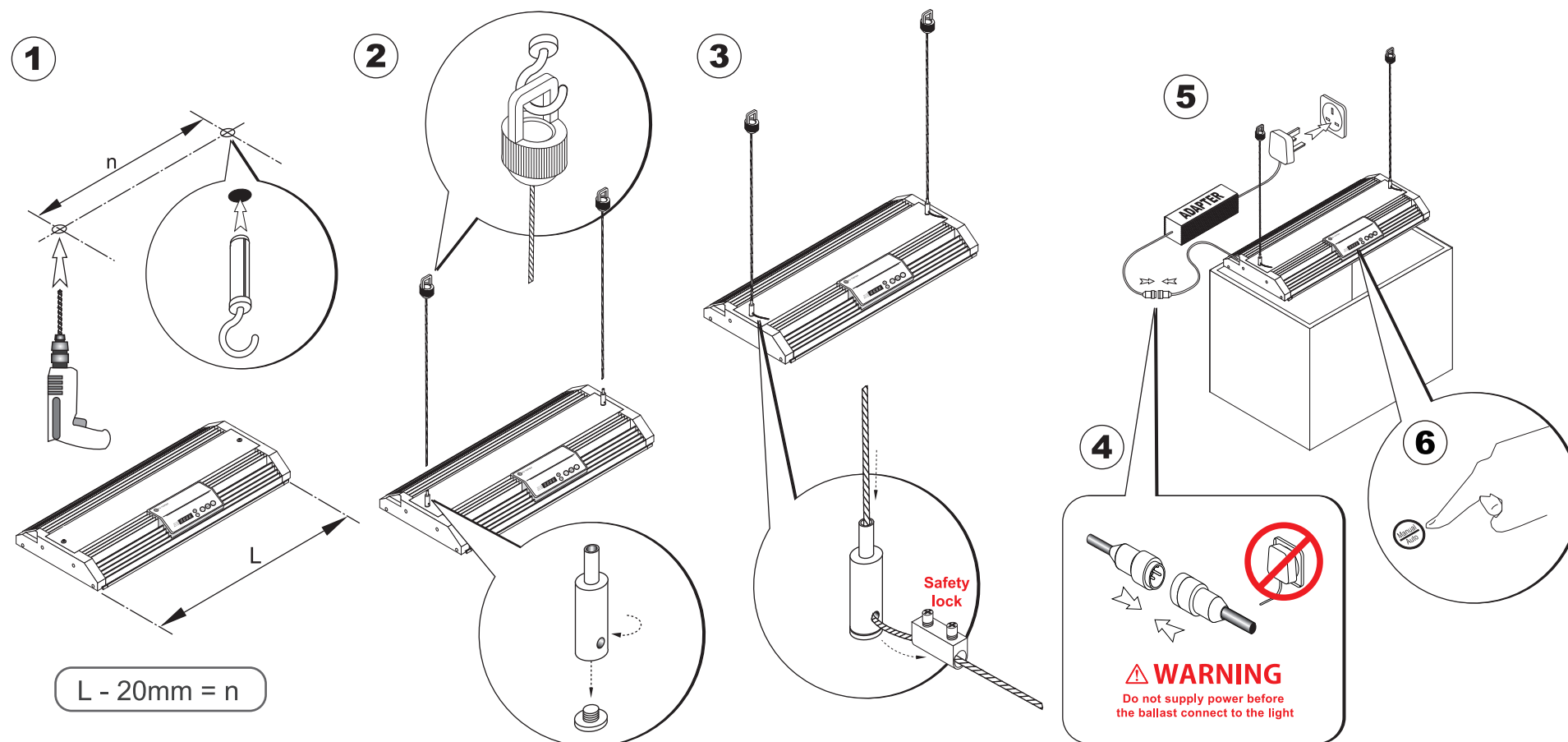


Adjustable width tank mounts



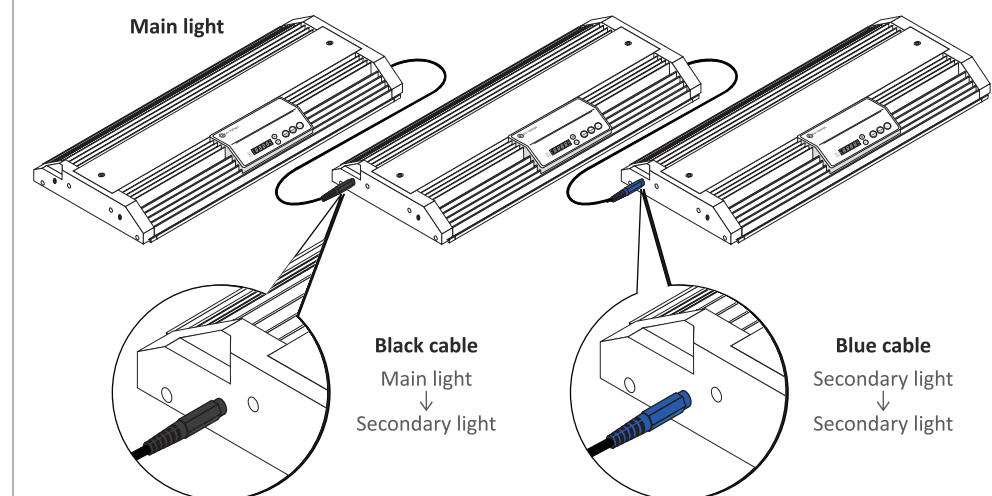
Ceiling mounts



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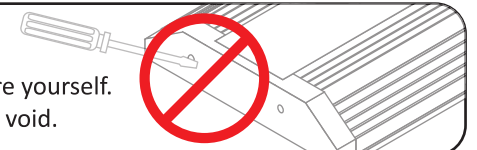
Multiple KR configuration



Choose one of KR93 as a main controller. Select "HA-0" in the secondary light(s) and it will be controlled by the main light.

WARNING

DO NOT attempt to service the fixture yourself. Doing this may render this warranty void.



USER’S GUIDE

KR91/KR93/KR93SP
(Version 2.02E)

Control panel overview

The KR91 / KR93 / KR93SP control panel keys

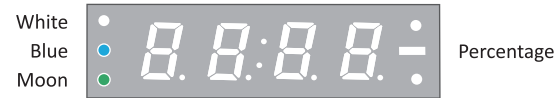


Five functional keys

- **+ or –** Press to scroll through the menus and options
- **Back/Clock** Use this key to edit time / go back
- **Manual/Auto** Use this key to change the light between Manual or Auto mode
- **Set** Use this key to select or enter

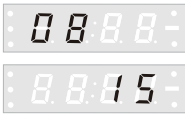
LED display and indications

The LED display hour (*H:09*) and minute (*M:00*) alternate in 3s.



■ Time setting

- 1) Press “Back/Clock” to set the clock
- 2) Press “+/-” & “Set” to set the hour
- 3) Press “+/-” & “Set” to set the minute



■ Manual Mode *HAAd*

Switch to manual mode by pressing the “Manual/Auto” button

● Manual mode setting

- 1) Press “+/-” to select a light mode
- 2) Press “Manual/Auto” to enter

Manual mode setting	
<i>HA-0</i>	Off mode : Press “Set” to check the firmware version
<i>HA-1</i>	The intensity setting : Read Note M-1 for details
<i>HA-2</i>	White, Blue and moon light are able to programmed from 0-100%. Read Note M-2 for details
<i>HA-3</i>	
<i>HA-L</i>	Lightning mode : The fixture will constantly produce lightning
<i>HA-d</i>	Demo mode : Read Note M-3 for details

Note M-1 : How to check the firmware version of the light?

- 1) Switch to Manual mode by pressing "Manual/Auto" button
- 2) Press “+/-” to select light mode “HA-0”
- 3) Press “Set” to check the firmware version (eg. 2.02)

Note M-2 : How to set the intensity level?

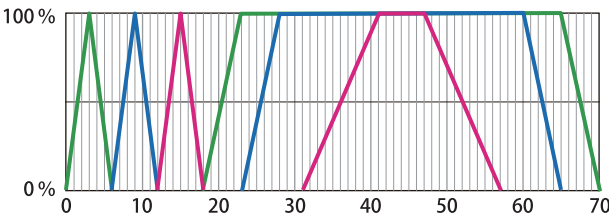
- 1) Press “Set” to enter the setting of White light
Press “+/-” to set intensity level from 0% - 100%
- 2) Press “Set” to enter the setting of Blue light
Press “+/-” to set intensity level from 0% - 100%
- 3) Press “Set” to enter the setting of moon light
Press “+/-” to set intensity level from 0% - 100%
- 4) Press “Set” to save and complete the setting



Note M-3 : Demo mode

“HA-d” is Demo mode, cycle will keep repeating as follows.

1. **Moon** 0% → 100% → 0% (6s)
2. **Blue** 0% → 100% → 0% (6s)
3. **White** 0% → 100% → 0% (6s)
4. **Moon** 0% → 100% (5s)
5. **Blue** 0% → 100% (5s)
6. **White** 0% → 100% (10s)
7. **White** 100% → 0% (10s)
8. **Blue** 100% → 0% (5s)
9. **Moon** 100% → 0% (5s)



■ Auto Mode *Aut0*

Switch to auto mode by pressing the “Manual/Auto” button

● Auto mode setting

- 1) Press “Set”, LED display time stage “St07” (Factory default)
Press “Set” & “+/-” to set from “St02” to “St07”
- 2) Press “+/-” to scroll up and down between the following time stages
“St07”, “t1-t7”, “Endt”, “LU” and “Lt”



▷ Time stage “t1”-“t7”

Press “Set” to set the selected time stage “t1”-“t7”

- 1) Press “Set” & “+/-” to set begin time in hour/minute
- 2) Press “Set” to the intensity setting



▷ End time “Endt”

Press “Set” & “+/-” to set the end time of the light



▷ Lunar cycle function “LU”

Press “Set” & “+/-” to set the lunar cycle function

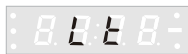
- “LU-n” - Lunar cycle function OFF
- “LU-y” - Lunar cycle function ON
(Read **Note A-2** for details of Lunar cycle function)



▷ Lightning mode “Lt”

Press “Set” & “+/-” to set the lightning mode “Lt”

- 1) “Lt-n” - Lightning mode OFF
 - 2) “Lt-y” - Lightning mode ON
- Press “Set” & “+/-” to set the begin time of lightning mode
Press “Set” & “+/-” to set the lasting time from “00-59”



● Reset to the default setting

- 1) Press both “Back/Clock” & “Set”, LED display “SEt”
Press “Set” to confirm (Read **Note A-1** for details)



Note A-1 : Factory default setting

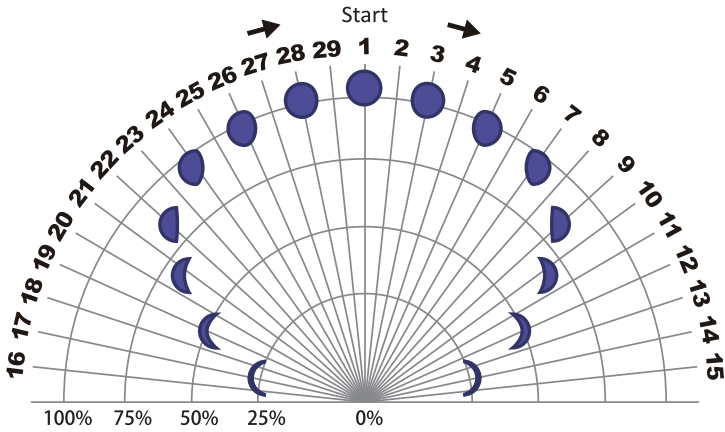
Factory default setting				
Stage (St)	Time	White %	Blue %	Moon %
1	07:00	0	0	30
2	08:00	0	10	30
3	09:00	50	50	10
4	11:00	80	80	10
5	17:00	50	80	10
6	18:00	10	80	10
7	21:00	0	0	100
End	00:00	-	-	-

The setting of the time stages should be “t1 < t2 < t3 < t4 < t5 < t6 < t7 < Endt”

For example: “t1” begin at 09:00, “t2” begin at 11:00, “t3” begin at 10:00.

In this case, “t2” is overwritten by “t3”

Note A-2 : Lunar cycle function



ACCESSORIES

