

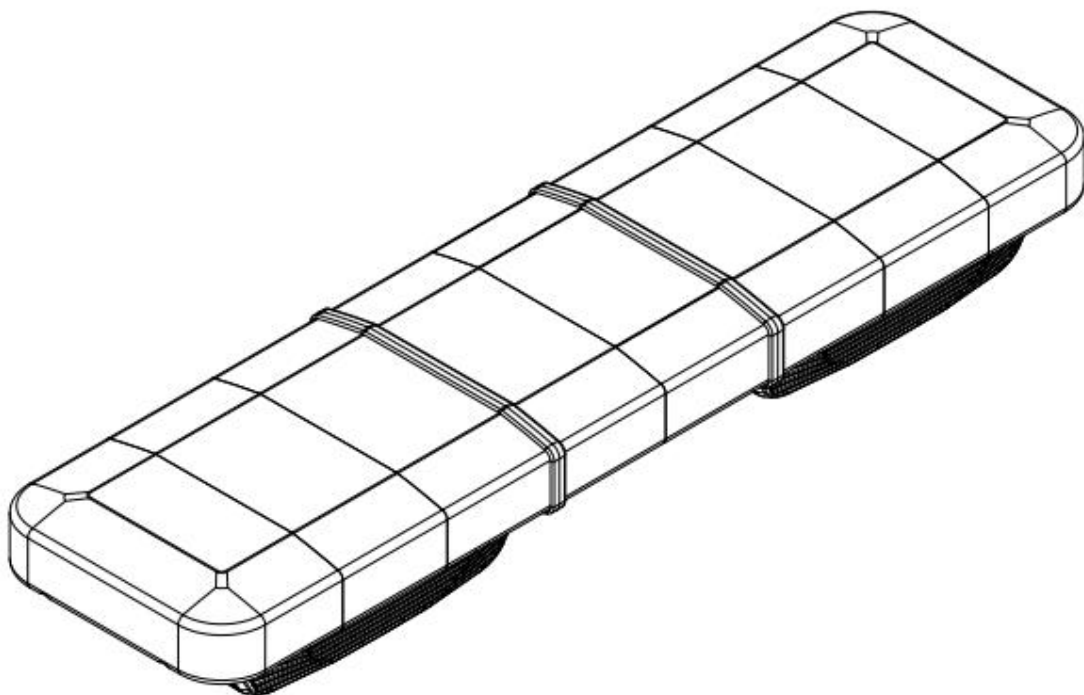


LED Strobe lightbar

XB12 series

XB24 series

Operation Manual



Safety Caution

To Customers

Thank you very much for buying our products! Before use, please read this instruction manual carefully and use the product correctly. After reading, please properly keep this manual together with the warranty

- ◆ Before use, please read safety cautions carefully and correctly use the product.
- ◆ The precautions shown here are for safe and correct use of the product, preventing danger and damage to you and others
- ◆ Cautions are intended to clarify the magnitude and urgency of the hazard and damage, and to classify the contents of the assumed error handling as hazard warnings
- ◆ Do follow the safety precautions.
- ◆ Fail to follow the safety precautions can lead to dangers and damages



DANGER

It indicates that if used incorrectly, it can cause death or serious injury or other dangers.



WARNING

Indicates the possibility of death or serious injury if used incorrectly.



CAUTION

It means that if used incorrectly, it can cause disability or damage.

STOP

If used incorrectly, can not realize the original performance.



WARNING

- ◆ If something goes wrong, stop using it immediately.
- ◆ Never disassemble or modify the product.
- ◆ To avoid the product from falling off, make sure the mounting position is strong enough to bear the weight.



CAUTION

- ◆ If this product is installed on a vehicle and driven on the road, please confirm that it complies with the safety standards of road traffic law and other relevant regulations for road transport vehicles before use

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1. Model

(Example) Model: X B 1 2 - B 2 A 5 0 D H

X B
1 2
-
B 2
A
5
0

①
②
③
④
⑤
⑥
⑦

① Series Number

② Rated voltage

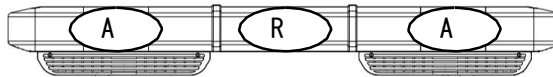
- 1 2 : DC12V
- 2 4 : DC24V

③ Type 【Full length】

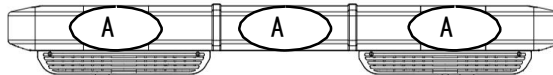
- A : A Type 【Full length990mm】
- B : B Type 【Full length1122mm】
- C : C Type 【Full length1518mm】
- D : D Type 【Full length1782mm】
- E : E Type 【Full length582mm】
- F : F Type 【Full length1386mm】

④ Color of lightbar casing

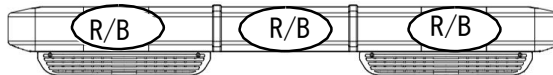
- 1 : amber—red—amber



- 2 : amber



- 3 : red



- 4 : blue



- 7 : red—mark—red

⑤ Mounting method

- A : U shaped bracket
- B : bolt&nut
- P : Leg bracket

⑥ Specification of speaker

- 0 : without speaker
- 3 : 30W speaker
- 5 : 50W speaker

【Direction of speaker】 L side: backward、 R side: forward ※ view from front of car

⑦ Mounting direction

- 0 : Front lighting
- 1 : Front-back lighting
- L : Left H: High brightness left mounting
- R : Right M: High brightness right mounting
- 5 : High brightness front lighting
- 6 : High brightness Front-back lighting

2. Specification

2. 1 Specification

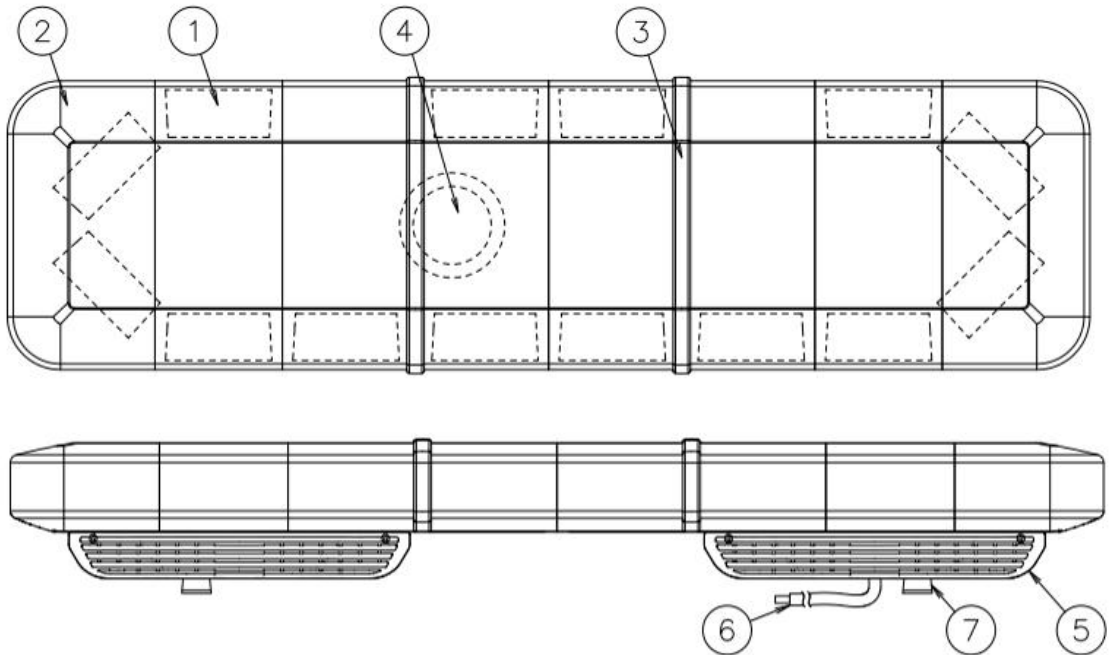
Voltage	XB12—□□□□□	XB24—□□□□□
Rated voltage	DC12V	DC24V
Voltage range	10V ~ 16V	20V ~ 32V
Light source	High brightness LED module	
Temperature	-30℃ ~ +75℃	
Vibration-proof	GB 13954-2009	
Water-proof	IP65	
Meet and exceeds	ECE R65、ECE R10	
Specification of wire	<ul style="list-style-type: none"> ◆ With speaker 0.5sq×9 wires、Length 3.3m (Bus φ9mm) ◆ Without speaker <ul style="list-style-type: none"> • A ~ D、F Model 0.5sq×9 wires、Length 3.3m (Busφ9mm) • E Model 0.75sq×6 wires、Length: 3.3m (Bus φ10mm) 	
Mounting	U shaped bracket / bolt&nut /leg mounting	
Outline size (L×W×H)	<ul style="list-style-type: none"> ◆ U shaped bracket、leg mounting 【Full length】×300mm×152mm (※ 1) ◆ Bolt&nut 【Full length】×300mm×90mm (※ 1) 	

※ 1 【Full length】

A type: 990mm、B type: 1122mm、C type: 1518mm、
D type: 1782mm、E type: 582mm、F type: 1386mm

2. 2 Name of parts and components

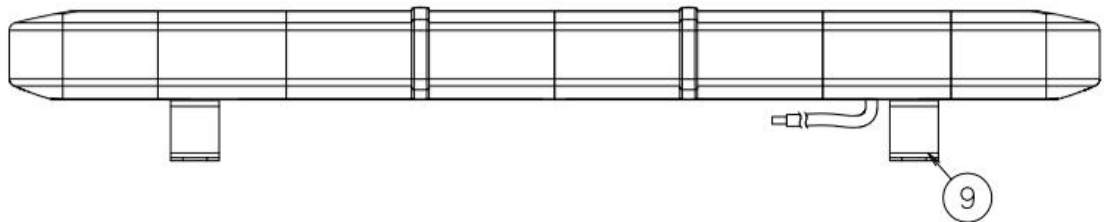
◆ U shaped mounting kit 【Model: X B □ □ - □ □ A □ □】



◆ Bolt& nut mounting 【Model: X B □ □ - □ □ B □ □】



◆ Leg mounting 【Model: X B □ □ - □ □ P □ □】



No.	Name	Specification	note
①	L E D module		
②	casing	PC	
③	partitioner	PC	
④	Speaker head		Only for U shaped bracket
⑤	Speaker		Only for U shaped bracket
⑥	Power cable		
⑦	U shaped bracket	S U S	Only for U shaped bracket
⑧	Hexagonal screw	M 8 、 S U S	Only for bolt& nut mount
⑨	Leg mounting kit	S U S	Only for U shaped bracket

※In different situations, there are more cases other than the above mentioned.

3. Flash mode

switch the light bar flash mode successively to fulfill various usage purposes. Each flicker mode will be described in this chapter. In addition, please refer to Chapter 5 to learn how to switch flash mode.

【Flash mode】

No.	Name of the flash mode	A type	E	E	E
		B type	(O)	(L)	(R)
		C type	(O)	(H)	(M)
		D type			
		F type			
①	Warning (Construction vehicle)	●	●	●	●
②	Patrol 1 (Street patrol vehicle)	●	●	●	●
③	Emergency 1 (Emergency vehicle)	●	●	●	●
④	Attention (right)	● →	● →	● →	● →
⑤	Attention (left)	● ←	● ←	● ←	● ←
⑥	Attention (left-right)	● ↔	● ←	● ←	● →
⑦	Direction right	● →	● →	● →	● →
⑧	Direction left	● ←	● ←	● ←	● ←
⑨	Direction right-left	● ↔	● ←	● ←	● →
⑩	Low speed-stop-barricade	●	●	●	●
⑪	Patrol 2 (Patrol vehicle)	●	●	●	●
⑫	Emergency 2 (Emergency vehicle)	●	●	●	●
⑬	Right turn (Knob switch disabled)	● →	● →	●	● →
⑭	Left turn (Knob switch disabled)	● ←	● ←	●	●
⑮	Danger (Knob switch disabled)	●	●	●	●

← Switch from ①.

← From the last mode back the first.

⑬~⑮ modes can not be selected using knob switch because they are realized by connecting to vehicle signal

【Supplementary notes】

Flash modes ①~⑫ can be switched manually or by using switch controller

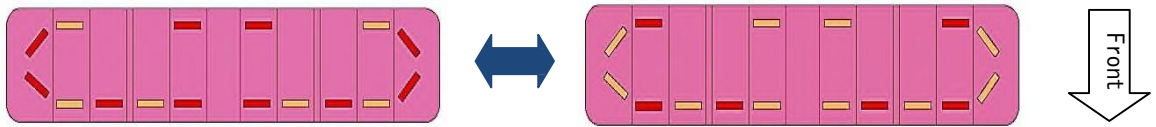
Flash modes ⑬~⑮ can only be switched by using switch controller and connecting the light bar with vehicle signal.

3.1 Mode① : Warning (Construction vehicle)

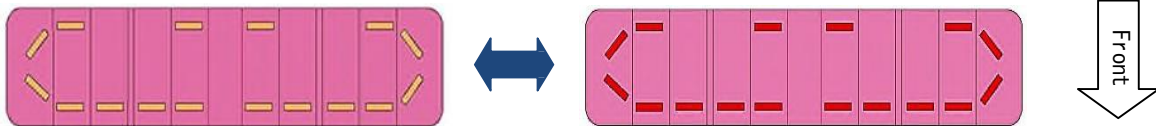
« Flash modes of A / B / C / D / F types » (120f.p.m)

Repeat in a order from (1)~(2)。

(1) LED modules flash slowly and alternately . Repeat this flashing 3 times



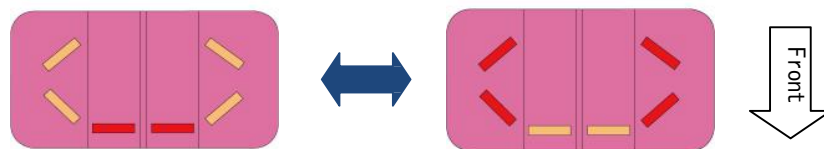
(2) All LED modules flash 2 times. Repeat twice.



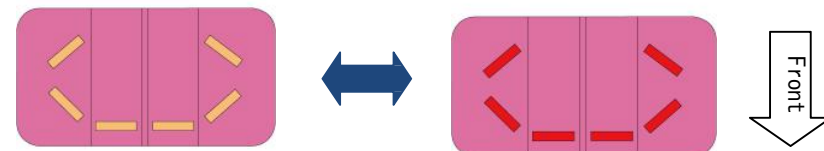
«Flash mode oE type» (120f.p.m)

In the order of from (1)~(2)

(1) LED modules flash slowly and alternately. Repeat this flashing 3 times



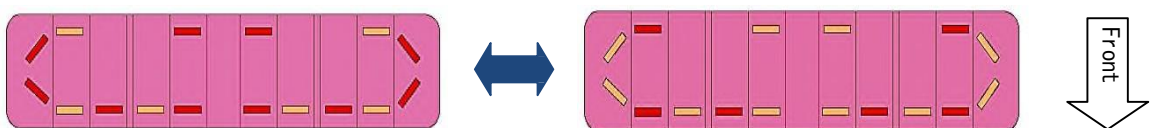
(2) All LED modules flash 2 times. Repeat twice.



3.2 Mode② : Patrol 1 (Street patrol vehicle)

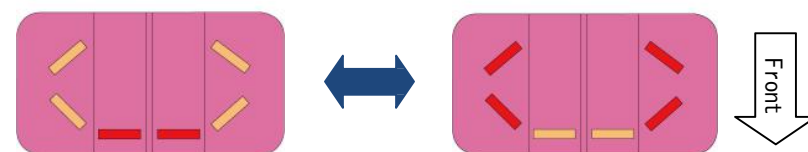
« Flash modes of A / B / C / D / F types »(120f.p.m)

(1) LED modules flash slowly and alternately.



«Flash mode oE type» (120f.p.m)

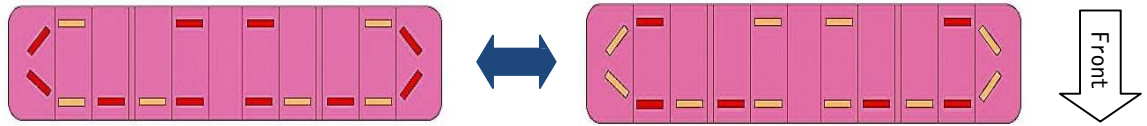
(1) LED modules flash slowly and alternately.



3.3 Mode ③ : Emergency 1 (Emergency) vehicle

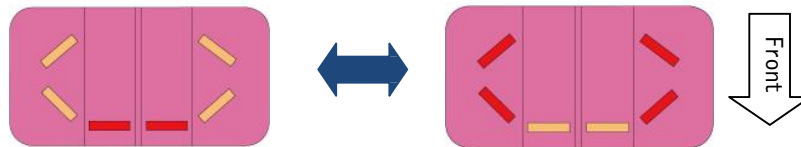
« Flash modes of A / B / C / D / F types »(160 f.p.m)

(1) LED modules flash fast and alternately.



« Flash mode o E type »(160 f.p.m)

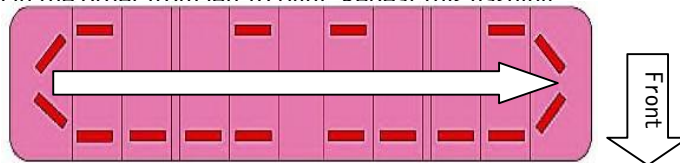
(1) LED modules flash fast and alternately.



3.4 Mode ④ : Attention (right) (scroll the sign)

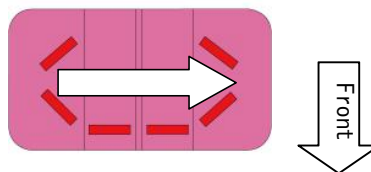
« Flash modes of A / B / C / D / F types »(160f.p.m)

(1) LED modules flash in the order from left to right. Repeat this flashing.



« Flash mode o E type »(160 f.p.m)

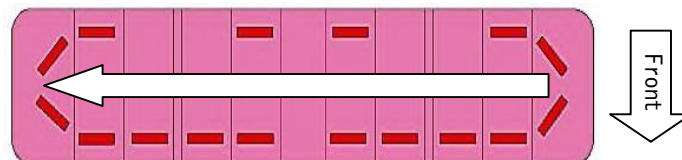
(1) LED modules flash in the order from left to right. Repeat this flashing.



3.5 Mode ⑤ : Attention (left) (Scroll the sign)

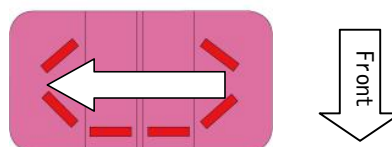
« Flash modes of A / B / C / D / F types »(160f.p.m)

(1) LED modules flash in the order from right to left. Repeat this flashing.



«Flash mode o E type »(160 f.p.m)

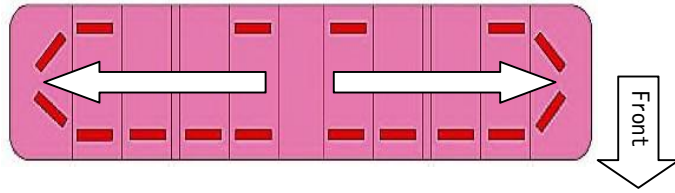
(1) LED modules flash in the order from left to right. Repeat this flashing.



3.6 Mode⑥:Attention (right-left) (Scroll the sign)

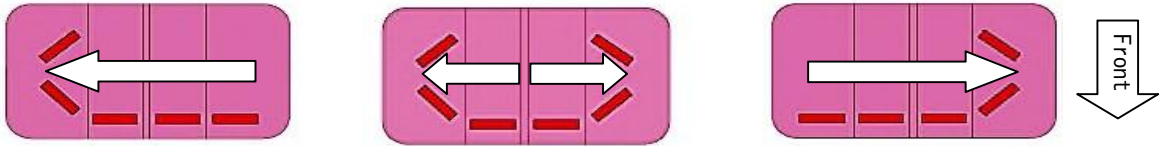
« Flash modes of A/B/C/D/F types » (160 f.p.m)

(1) LED modules flash in the order from center to both right side and left side.



«Flash mode oE type» (160 f.p.m).

Left direction is that LED modules flash from right to left; Left-right direction is that LED modules flash from center to both left and right; right direction is that modules flash from left to right.



Left 【 X B □□ - E □□□L(H) 】

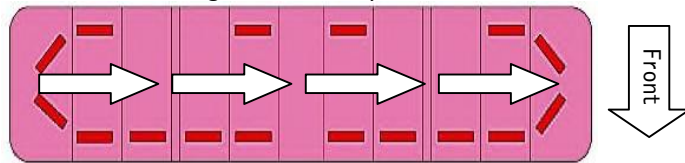
Left-right 【 X B □□ - E □□□0 】

Right 【 X B □□ - E □□□R(M) 】

3.7 Mode⑦ : Right direction (Modules flash successively)

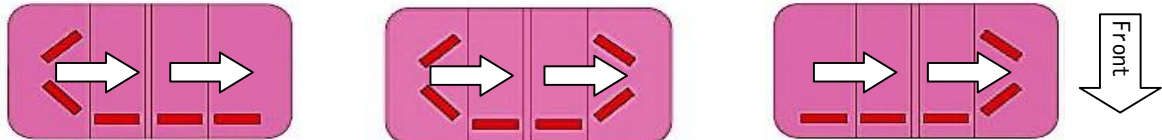
« Flash modes of A/B/C/D/F types »

(1) LED modules flash in a order from left to right successively.



«Flash mode oE type»

LED modules flash in a order from left to right successively.



Left 【 X B □□ - E □□□L(H) 】

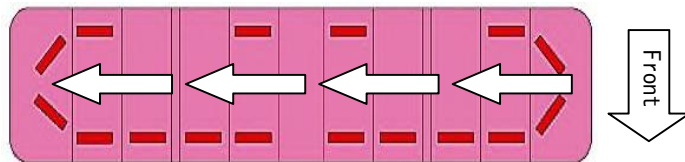
Left-right 【 X B □□ - E □□□0 】

Right 【 X B □□ - E □□□R(M) 】

3.8 Mode⑧ : Left direction (Modules flash successively)

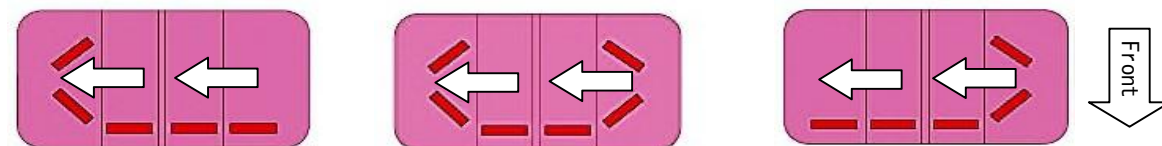
« Flash modes of A/B/C/D/F types »

(1) LED modules flash in a order from right to left successively.



«Flash mode oE type»

(1) LED modules flash in a order from right to left successively.



Left 【 X B □□ - E □□□L(H) 】

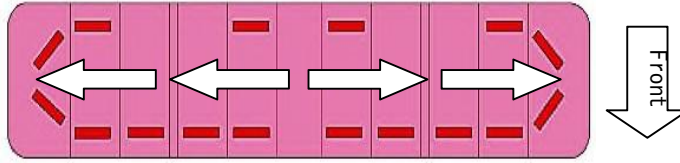
Left-right 【 X B □□ - E □□□0 】

Right 【 X B □□ - E □□□R(M) 】

3.9 Mode ⑨ : Left-right direction (Modules flash successively)

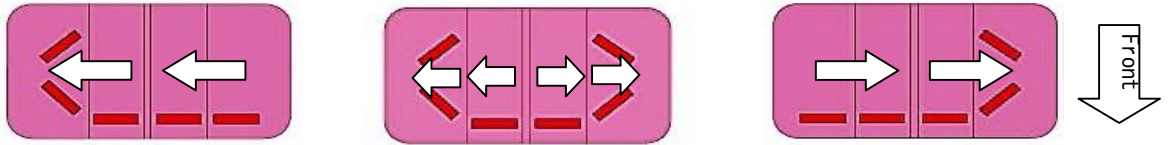
《 Flash modes of A/B/C/D/F types》

(1) LED modules flash from center to both left and right successively.



《Flash mode of E type》

(1) Left direction is that LED modules flash from right to left; Left-right direction is that LED modules flash from center to both left and right; right direction is that modules flash from left to right.



Left 【XB5□-E□□□L(H)】

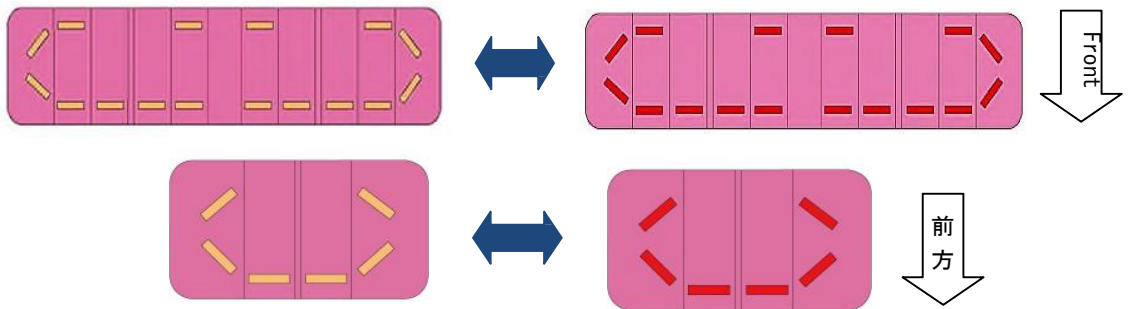
Left-right 【XB5□-E□□□0】

right 【XB5□-E□□□R(M)】

3.10 Mode ⑩ : Low speed, stop, barricade

《 Flash modes of A/B/C/D/F types》

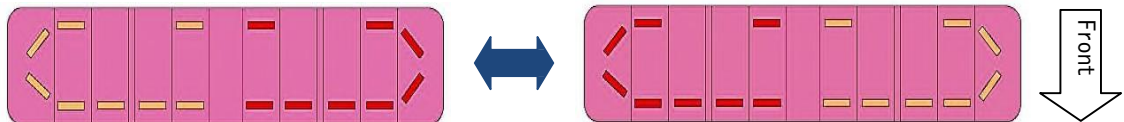
(1) All LED modules light on for 2 seconds and then light out for 2 seconds. Repeat this flashing.



3.11 Mode ⑪ : Patrol 2 (Street patrol vehicle)

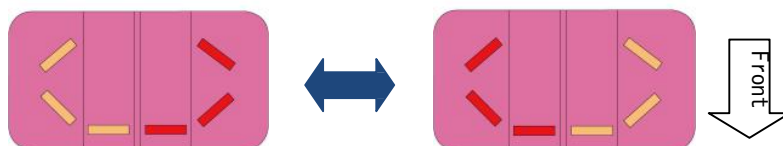
《 Flash modes of A/B/C/D/F types 》(120f.p.m) (1)

All LED modules that are divided into left half and right half flash slowly and alternatively.



《Flash mode of E type》(120 f.p.m)

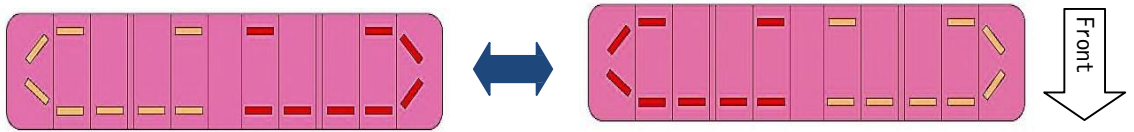
(1) All LED modules that are divided into left half and right half flash slowly and alternatively.



3.12 Mode ⑫ : Emergency 2 (Emergency vehicle)

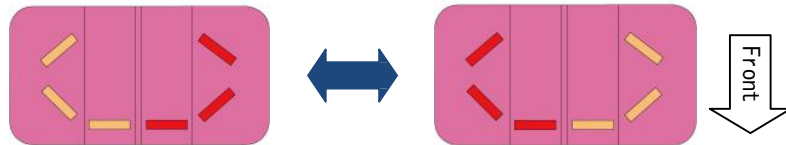
« Flash modes of A/B/C/D/F types » (160 f.p.m)

(1) All LED modules that are divided into left half and right half flash fast and alternatively.



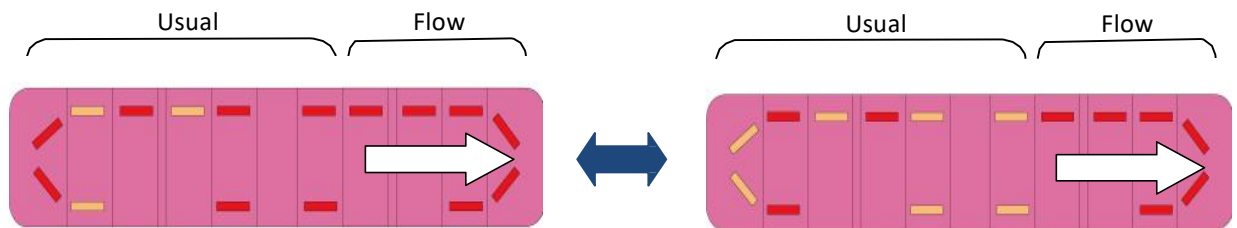
« Flash mode oE type » (160 f.p.m)

(1) All LED modules that are divided into left half and right half flash fast and alternatively.

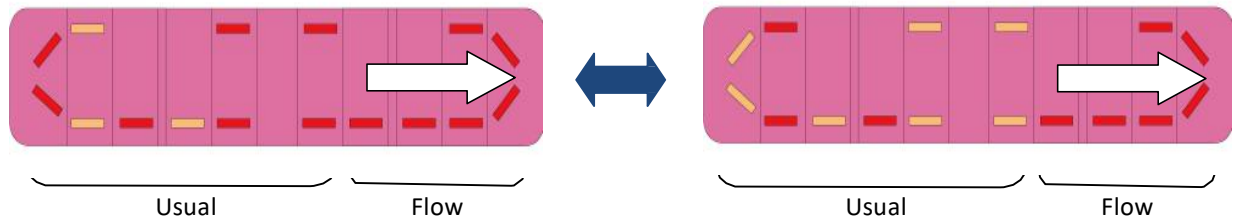


3.13 Mode ⑬ : Turn (Right)

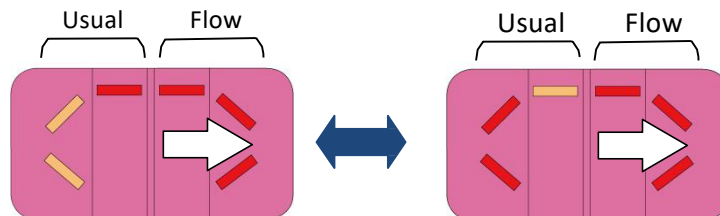
Forward mounting



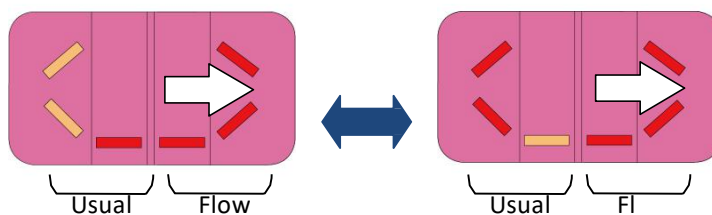
Backward mounting



Forward mounting

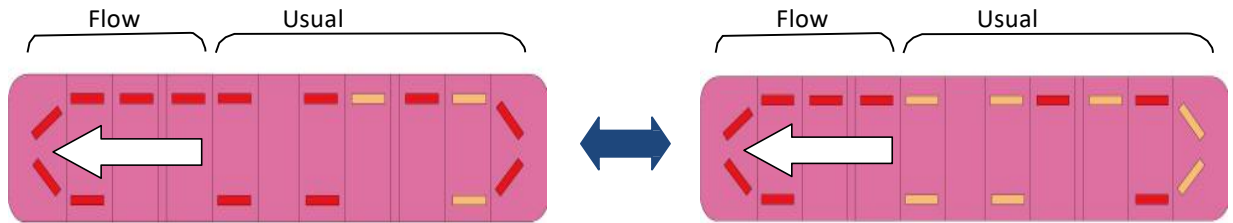


Backward mounting

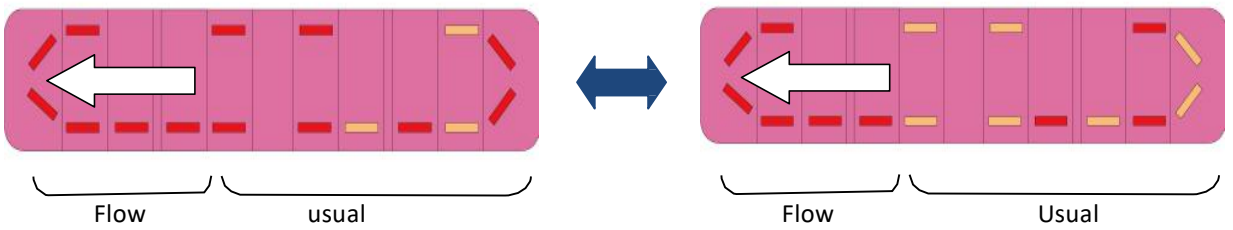


3.14 Mode ⑭ : Turn (Left)

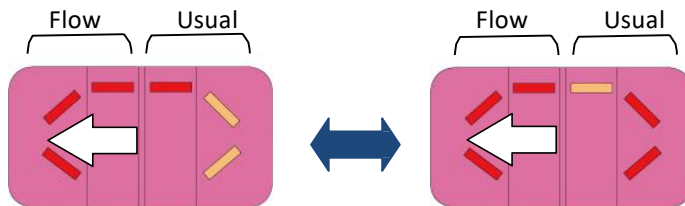
Forward mounting



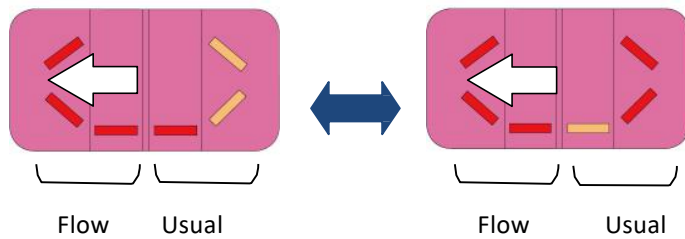
Backward mounting



Forward mounting



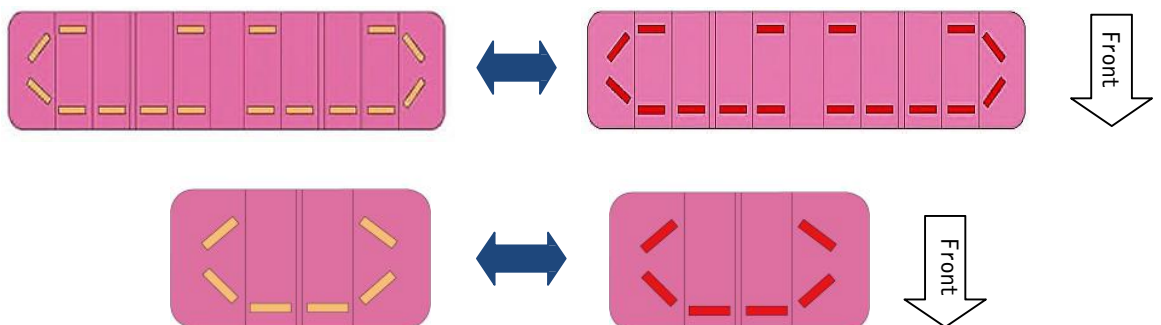
Backward mounting



3.15 Mode ⑮ : Danger

« Flash modes of A/B/C/D/F types »

(1) All led modules light on for 0.5 second and then lights off for 0.5 second. Repeat this flashing.



4. Mounting approach

1. Preparation before installation

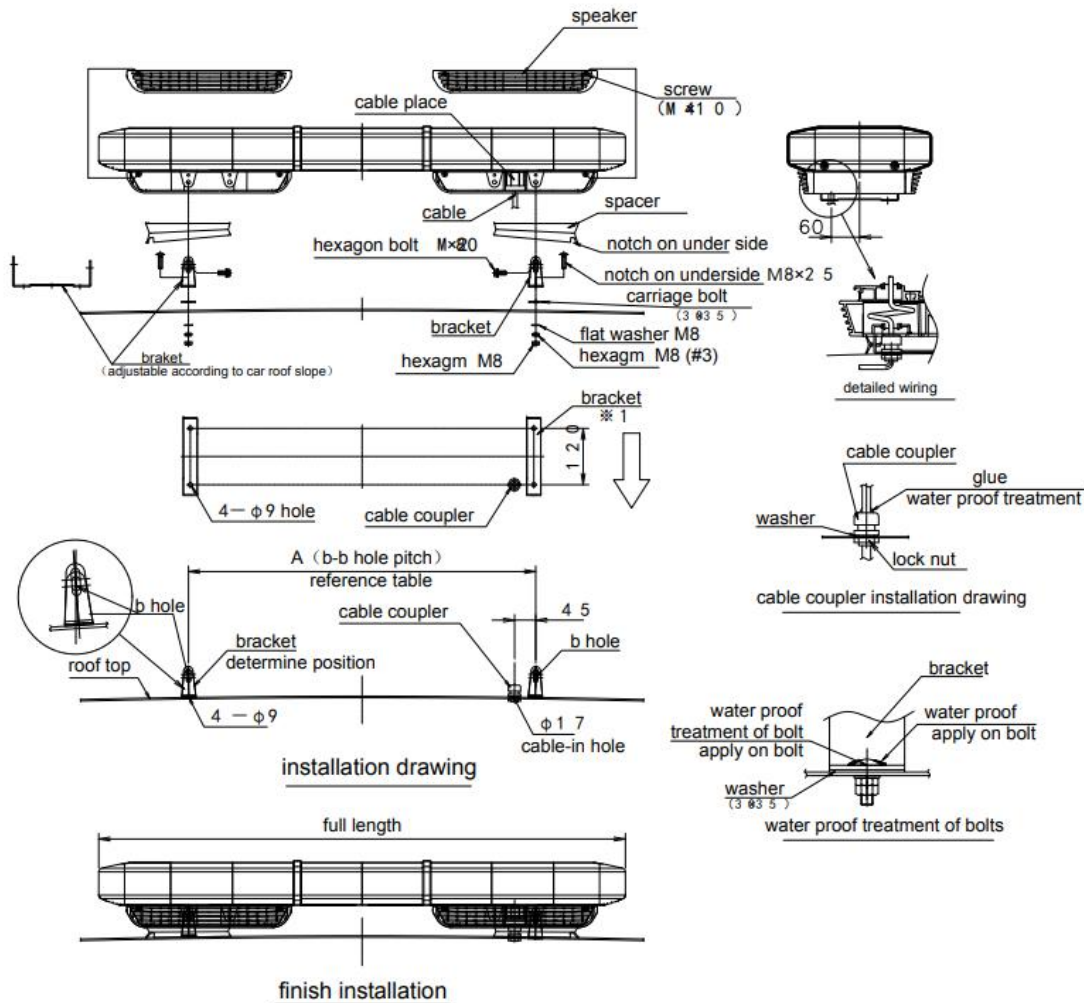
- 1.1. Before installation, take off the speaker grills and take down the speakers.
- 1.2. Get brackets and spacers prepared for installation.

2. Determine bracket position

- 2.1. Determine bracket position on top of car roof and make holes according to installation drawing. Adjust the bracket in line with car roof slope to make sure the lightbar is level with ground.
- 2.2. Cable coupler position (※2): Determine its location according to bracket position and make holes.

3. Installation of the lightbar

- 3.1. Mount the brackets on car roof top using carriage bolts.
- 3.2. Before using, the bolts should be applied with sealing glue. After fixation, the areas around bracket and bolt shall be evenly applied with sealing glue for water proof.
- 3.3. Fix the cable coupler on the car roof.
- 3.4. Insert the spacers. Notice: the notch shall be on the underside of the spacer.
- 3.5. Put the lightbar on brackets, aligning bolts and holes. Fasten the light bar with hexagon bolts. And then pull the cable into the car cabin through cable coupler.
- 3.6. Re-assemble speaker grill



※ 1 Put the brackets onto car roof top and determine distance between b-b holes according to installation bolts pitch.

※ 2 Cable position, which varies from a model to another, must be determined in line with the lightbar outline drawing.

※ 3 Fasten the cable coupler nuts before fixing the lightbar onto the brackets. Excessive lengths of cable can be stored inside the speaker.

5. Wiring

Explain wire color and function. Before wiring the light bar, read the color table below and connect the wires correctly.



CAUTION

- ◆ Note: Place light bar and its wires at a distance from radio antenna(recommend 1 meter)
 ※Where the radio signal is weak, there may be noise in the sound.

5.1 Wiring in the case of speaker equipped

Wire color	Function
Red	Power: +Positive (※ 1)
Yellow	Power: +Positive (※ 2)
Black	Power: -Negative (Common)
Brown	Dim: Light can be dimmed by contact power positive.
Green	<ul style="list-style-type: none"> •Choose flash mode: each contact with the negative electrode of the power supply will change flash mode in a order from ① to ⑫ according to the flash mode table. (※ 4) •Synchronization (※ 3): Light bars of same type can be synchronized by using green wire.
White	Speaker: -Negative (COM)
Orange	Not used
Gray	Speaker: +Positive (16Ω)
Blue	Not used

※ 1 Red—Sign—Red 【Model: X B□□—□ 7□□□】、Amber—Red—Amber 【Model: X B□□—□ 1□□□】
red light on

※ 2 Red—Sign—Red 【Model: X B□□—□ 7□□□】 sign light on
Amber—Red—Amber 【Model: X B□□—□ 1□□□】 yellow light on

※ 3 E type light bar life mounting and right mounting 【Model: X B□□—E□□□L / □R】 ,
synchronize left mounting and synchronize right mounting.

※ 4 Keep contact of green wire and power negative pole for 5 seconds, light bar will go back to flash mode①.

(Do not connect green wire with power permanently. Light bar won't work.

5.2 Wiring in the case of no speaker equipped

(1) A~D、F Type

Wire color	Function
Red	Power: +Positive
Yellow	Power: +Positive (※1)
Black	Power: -Negative (Common)
Brown	Dim: Light can be dimmed by contact power positive.
Green	<ul style="list-style-type: none"> •Choose flash mode: each contact with the negative electrode of the power supply will change flash mode in a order from ① to ⑫ according to the flash mode table. (※3) •Synchronization (※2): Light bars of same type can be synchronized by using green wire.
White	Not used
Orange	Not used
Gray	Not used
Blue	Not used

(2) E Type 【Model: X B□□-E□□□□】 ※Wiring of high brightness lightbar of E type is the same

Wire color	Function
Red	Power: +positive
Yellow	Not used
Black	Power: -negative
Brown	Dim: power + Positive contact to dim
Green	<ul style="list-style-type: none"> •Choose flash mode: each contact with the negative electrode of the power supply will change flash mode in a order from ① to ⑫ according to the flash mode table. (※3) •Synchronization (※2): Light bars of same type can be synchronized by using green wire.
White	Not used

※1 Red—Sign—Red 【Model: X B□□-□7□□□】 Sign light on

※2 E type light bar life mounting and right mounting 【Model: X B□□-E□□L / R□】 , synchronize left mounting and synchronize right mounting.

※3 Keep contact of green wire and power negative pole for 5 seconds, light bar will go back to flash mode①.

(Do not connect green wire with power permanently. Light bar won't work)

5.3 Power wiring of high brightness light bar



CAUTION

◆ Since current of high brightness lightbar is higher, please parallel red wire with yellow wire and black wire with blue wire to avoid burning wires as a result of higher working load.

(1) In a case without speaker 【Model: X B□□-□□P□5】

Wire color	Function
Red	Power: + Positive ①
Yellow	Power: + Positive ②
Black	Power: - negative (①)
Brown	Power: - negative (②)
	Dim: power + Positive contact to dim
White	• Choose flash mode: each contact with the negative electrode of the power supply will change flash mode in a order from ① to ⑫ according to the flash mode table. (※ 1)
Orange	Not used
Gray	Not used
Blue	Not used

Please use both red wire and yellow wire.

2 wires for high brightness light bar

(2) In a case with speaker 【Model: X B□□-□□A□5】

Wire color	Function
Red	Power: + Positive ①
Yellow	Power: + Positive ②
Black	Power: - negative (①)
Blue	Power: - negative (②)
Brown	Dim: power + Positive contact to dim
Green	• Choose flash mode: each contact with the negative electrode of the power supply will change flash mode in a order from ① to ⑫ according to the flash mode table. (※
White	Speaker: - negative (C O M)
Orange	Power: + Positive (Sign light) (※ 2)
Gray	Speaker: + Positive (1 6 Ω)

Please use both red wire and yellow wire.

2 wires for high brightness light bar

※ 1 Keep contact of green wire and power negative pole for 5 seconds, light bar will go back to flash mode ①.

(Do not connect green wire with power permanently. Light bar won't work.)

※ 2 Red—Sign—Red 【Model: X B□□-□□7□□□】 Sign light on

6. Setting of fuse

Standard light bar

Type		Fuse	
XB12	A-Type (except A7)	7.5A	
	A7A50	5.0A	
	B-Type (except B7A)	10.0A	
	B7A50	7.5A	
	C-Type (except C7A)	10.0A	
	C7A50	10.0A	
	E2B00	5.0A	
	F-Type (except F7A)	10.0A	
	F7A50	10.0A	
XB24	A-Type	5.0A	
	B-Type	5.0A	
	C-Type (except C7A)	7.5A	
	C7A50	5.0A	
	D2P00	7.5A	
	D7A50	7.5A	
	E□B00	3.0A	
	E□B01	5.0A	
	E□B0L / E□BOR	3.0A	
	F-Type (except F7)	7.5A	
	F7A50	5.0A	

High brightness light bar

Type		Fuse	
XB12	B2A55	15.0A	
	B2A56	15.0A	
	F2P05	20.0A	
	F7A55	15.0A	
XB24	B2P05	10.0A	
	C2A05	10.0A	
	D2P05	10.0A	
	E2B05, 0H, 0M	5.0A	

7. Maintenance



CAUTION

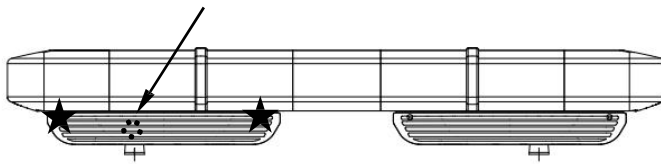
- ◆ In order to avoid electric shock, make sure to cut off the power supply before maintenance work
 - ◆ Clean lightbar covers with wet cloth. Do not use detergents such as gasoline and lacquer thinner.
 - ◆ don't spray the light bar with high pressure water for prolonged time to avoid malfunction as a result of water ingress.
 - ◆ Don't try to disassemble LED modules.
- The fault caused by repair outside the designated place of the company is not within the scope of the warranty.

Check if bolts and nuts of the lightbar are loose.

(For example) Installation of the U shaped bracket.

Hexagonal bolt M 8 (※ 1)

(Left side and right side of front and back of the speaker, 4 locations in total)



※ 1 Take off the bolts at ★ places before take down the speaker cover.




CAUTION

◆ Please check the bolts and nuts once annually, Fall of light bar from vehicle roof because of loosen bolts and nuts can lead to accidents.

8. Warranty

Please bring this warranty card together with the product when you go to maintenance.

Warranty	Within 1 year after purchase	 Qingdao MUYE Vehicle Assembly Co.,Ltd Address: No.18, Changjiang Road, SCO Economic Zone, Qingdao, China Postcode: 266300 Tel: +86-532-67795589
Model		
※Lot	※No.	
※Date	※_____Year_____month_____Day	
Buyer	T	
Seller		

《Warranty》

- 1 . Seller will repair the light bar without charge when it has been under normal use.
- 2 . Please bring the light bar and warranty card to the seller.
- 3 . Repair under the following conditions will be charged:
 - ① A malfunction or breakage caused by exceeding the limits of the specification or instruction manual
 - ② Fire, earthquake, flood, lightning strike and other disasters are cases of force majeure.
 - ③ Fault and damage caused by abnormal voltage, flying stone and other external factors.
 - ④ The fault is caused by the imperfect construction and other reasons.
 - ⑤ Products other than the peripheral product impact
 - ⑥ Failure caused by transfer of transport from installation location after installation
 - ⑦ Malfunction or breakage caused by use parts from outside of designated suppliers.
 - ⑧ Malfunction or breakage caused by improper storage in customer's warehouse.
 - ⑨ The warranty card has not been properly filled with customer's information

《contact information》

Qingdao MUYE Vehicle Assembly Co.,Ltd

Address: No.18, Changjiang Road, SCO Economic Zone, Qingdao, China

Postcode: 266300

Tel: +86-532-67795589