NARVA®

EX2R - L.E.D HYBRID PATTERN LIGHT BARS
## Instructions & Specifications

P/No. 72811, 72831, 72835, 72839, 72843, 72844, 72847, 72851, 72852
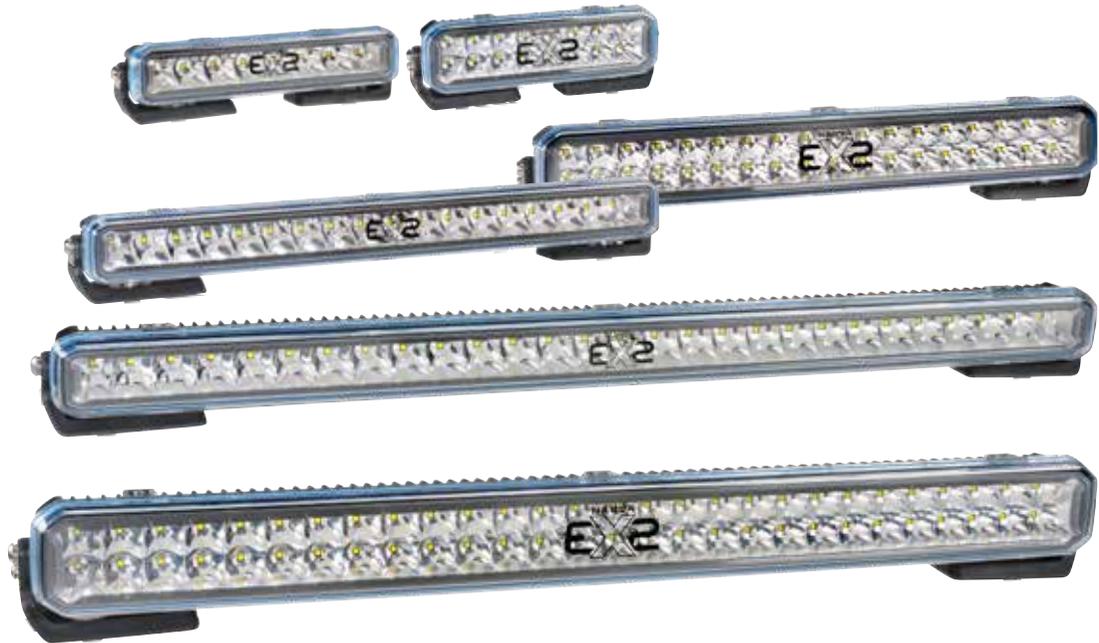

IMPORTANT SAFETY INFORMATION

- Remove negative battery cable before installation
- Ensure lamps are fitted using the appropriate wiring harness or an equivalent auxiliary wiring systems
- Ensure the lamps are mounted securely to a solid surface on the vehicle or bullbar
- Cables connected to the lamp must not be subjected to wear or other damage
- Please refer to your local State Government for wiring requirements, as they can differ from state to state.
- Please consult a qualified Auto Electrician to adapt to your vehicle wiring.

SINGLE ROW LIGHT BAR MOUNTING
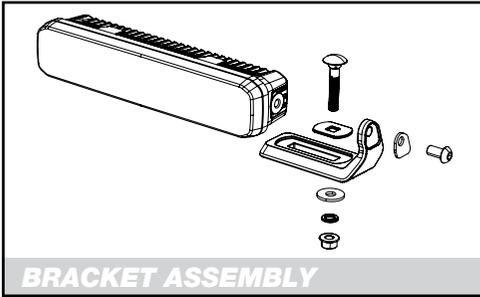
BRACKET ASSEMBLY

1 Each lamp is pre-assembled with stainless steel fasteners

2 Choose a solid surface on the vehicle or bullbar to mount the driving lights and secure the lamps by using the flat washer, spring washer with M10 nut

SINGLE ROW LIGHT BAR ASSEMBLY
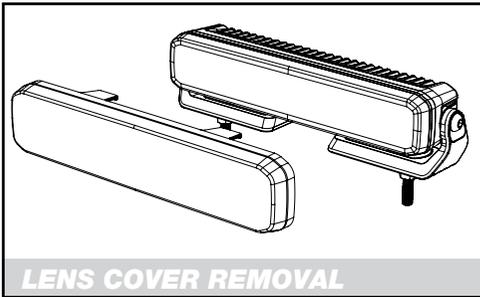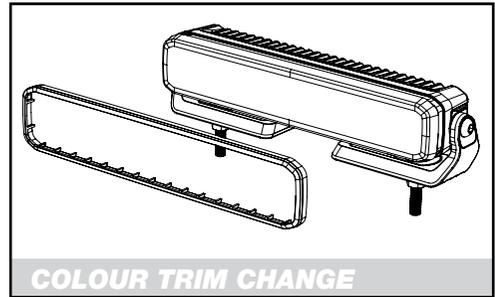
LENS COVER REMOVAL

1 Remove Lens Protector by un-clipping the side wings

COLOUR TRIM CHANGE

1 Remove the Colour trim by unclipping from the edge of the lamp

2 Change the Colour Trim and reassemble in reverse order

ANGLE ADJUSTMENT
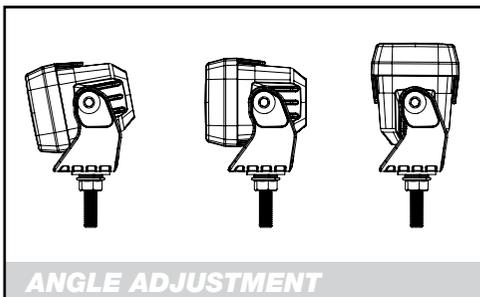
Loosen the nut and adjust lamp to the desired angle. Re-tighten nut

DOUBLE ROW LIGHT BAR MOUNTING
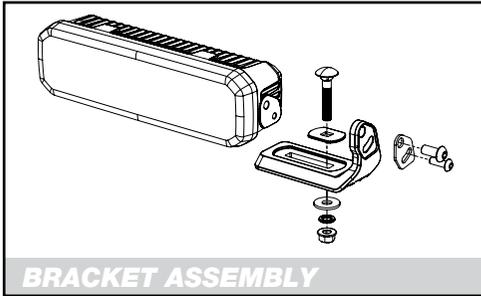
BRACKET ASSEMBLY

1 Each lamp is pre-assembled with stainless steel fasteners

2 Choose a solid surface on the vehicle or bullbar to mount the driving lights and secure the lamps by using the flat washer, spring washer with M10 nut

DOUBLE ROW LIGHT BAR ASSEMBLY
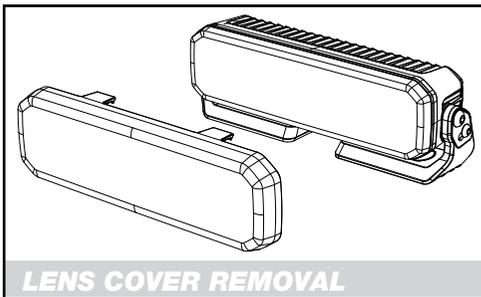
LENS COVER REMOVAL

**1** Remove Lens Protector by un-clipping the side wings
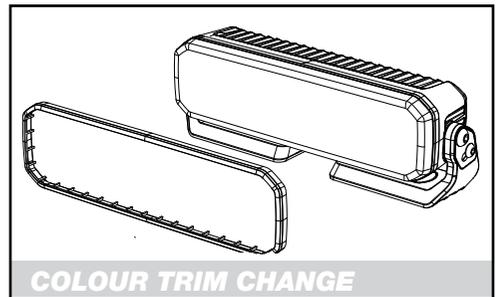
COLOUR TRIM CHANGE

1 Remove the Colour trim by unclipping from the edge of the lamp

2 Change the Colour Trim and reassemble in reverse order
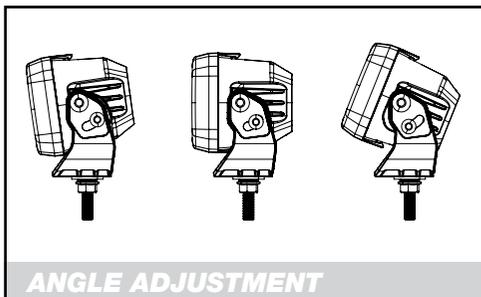
ANGLE ADJUSTMENT

Loosen the nut and adjust lamp to the desired angle. Re-tighten nut

EX2 WIRING *WITHOUT* SWITCH

1. Join positive red lead from the light bar to cable size listed in the below table by crimping the ends together.
2. Terminate the cable to one end of the fuse holder and other end to the positive terminal of the battery.
3. Join negative black leads from the light bar to one cable size listed in the below table by crimping the ends together.
4. Terminate to negative terminal of the battery or vehicle ground chassis.
5. Join the yellow highbeam trigger wire to 3mm wire and connect it to the highbeam feed wire of the vehicle. For Negative switching refer to last drawing.
6. Ensure fuse and negative battery cable is connected. Test the driving lights by turning the highbeams on.

EX2 WIRING *WITH* SWITCH

1. Join positive red lead from the light bar to cable size listed in the below table by crimping the ends together.
2. Terminate the cable to one end of the fuse holder and other end to the positive terminal of the battery.
3. Join negative black leads from the light bar to one cable size listed in the below table by crimping the ends together.
4. Terminate to negative terminal of the battery or vehicle ground chassis.
5. Join the yellow highbeam trigger wire to 3mm wire and connect it to the switch in cabin. Connect a 3mm wire from the switch to high beam feed wire of the vehicle. For Negative switching refer to last drawing.
6. Ensure fuse and negative battery cable is connected. Test the driving lights by turning the highbeams and switch on.

WHITE POSITION LIGHT WIRING

ADR approved white position lights can be used without EX2-R Bluetooth module by connecting the supplied round 5pin female connector flying lead with brown wire to round 5pin male connector from EX2-R driving lights. Connect the brown wire using 2.5mm wire to ignition source or parking lights. Test the white position lights by turning on parking lights or ignition.

EX2-R BLUETOOTH MODULE WIRING (P/NO. 74426)

1. Connect the round 5pin female connector from controller to round 5pin male connector from EX2R driving light. Make sure the weatherproof 5 pin connectors are securely fastened and route cables away from engine. The connectors are directional, make sure to connect to the correct position and fasten each end of the cap.
2. Connect the red positive fused power lead to ignition source or parking lights. Do not connect directly to battery as this will keep the position lights and Bluetooth on at all times.
3. Connect the black negative power lead to vehicle ground chassis or battery negative terminal Refer to EX2 Bluetooth module instructions on how to use.

EX2-R (P/no 72811, 72831, 72835, 72839, 72843, 72847 and 72851) Light bar come with 2000mm power flying lead and 1000mm RGB cable.

EX2-R (P/no 72844 and 72852) Light bar come with 500mm power lead + 3PIN DT +1650mm fused power lead harness and 1000mm RGB cable.

3" Double Row	3mm wire	4A fuse
10" Single Row	3mm wire	4A fuse
10" Double Row	3mm wire	5A fuse
20" Single Row	3mm wire	7.5A fuse
20" Double Row	4mm wire	10A fuse
30" Single Row	4mm wire	10A fuse
30" Double Row	4mm wire	15A fuse

Light Bars must dip with High Beam to meet ADR requirements. Please refer to your local State Government for wiring requirements, as they can differ from state to state. Please consult a qualified Auto Electrician to adapt to your vehicle wiring.

LAMP WIRING (WITHOUT SWITCH)

DIAGRAM A
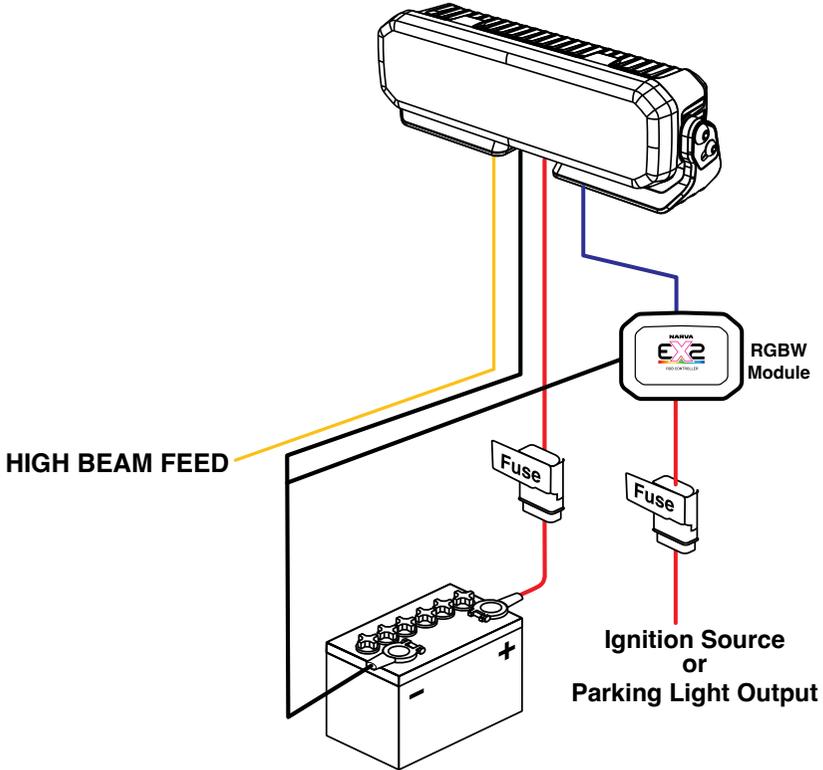
HIGH BEAM FEED

RGBW Module

Fuse

Fuse

Ignition Source
or
Parking Light Output

RED - POSITIVE
BLACK - NEGATIVE   ***Fuse not included (refer to table)**
YELLOW - HIGH BEAM FEED *Length of wires for diagram purposes only

No relay required due to internal switching technology (patent pending)

Each EX2-R Light Bar comes with 2000mm flying lead wire

Note: Light Bars must dip with High Beam to meet ADR requirements.
Please refer to your local State Government for wiring requirements,
as they can differ from state to state.
Please consult a qualified Auto Electrician to adapt to your vehicle wiring.

DIAGRAM B

HIGH BEAM FEED

RGBW
Module

Fuse

Fuse

F
I
R
E
W
A
L
L

Ignition Source
or
Parking Light Output

RED - POSITIVE
BLACK - NEGATIVE   *Fuse not included (refer to table)
YELLOW - HIGH BEAM FEED   *Length of wires for diagram purposes only

No relay required due to internal switching technology (patent pending)

Each EX2-R Light Bar comes with 2000mm flying lead wire

Please consult a qualified Auto Electrician to adapt to your vehicle wiring.

TECHNICAL SPECIFICATIONS

Series Name:	10" Single Row	10" Double Row
Voltage:	12/24 dual voltage with reverse polarity protection	12/24 dual voltage with reverse polarity protection
LEDs:	8 x 5W Cree LEDs	16x 5W Cree LEDs
Housing & Bracket	Aluminium pressure die-cast & extra tough glass reinforced polymer	Aluminium pressure die-cast & extra tough glass reinforced polymer
Beam Type	Hybrid beam	Hybrid beam
Lenses	Hardcoated polycarbonate	Hardcoated polycarbonate
Colour Temperature	5700°K	5700°K
Current Draw (@13.5V/@28V)	1.93/0.99	3.7/1.78

Series Name:	20" Single Row	20" Double Row
Voltage:	12/24 dual voltage with reverse polarity protection	12/24 dual voltage with reverse polarity protection
LEDs:	18 x 5W Cree LEDs	36 x 5W Cree LEDs
Housing & Bracket	Aluminium pressure diecast & extra tough glass reinforced polymer	Aluminium pressure die-cast & extra tough glass reinforced polymer
Beam Type	Hybrid beam	Hybrid beam
Lenses	Hardcoated polycarbonate	Hardcoated polycarbonate
Colour Temperature	5700°K	5700°K
Current Draw (@13.5V/@28V)	4.4/2.2	7.2/3.5

Series Name:	30" Single Row	30" Double Row
Voltage:	12/24 dual voltage with reverse polarity protection	12/24 dual voltage with reverse polarity protection
LEDs:	28 x 5W Cree LEDs	56 x 5W Cree LEDs
Housing & Bracket	Aluminium pressure diecast & extra tough glass reinforced polymer	Aluminium pressure diecast & extra tough glass reinforced polymer
Beam Type	Hybrid beam	Hybrid beam
Lenses	Hardcoated polycarbonate	Hardcoated polycarbonate
Colour Temperature	5700°K	5700°K
Current Draw (@13.5V/@28V)	7.1/3.45	11.1/5.3

Series Name:	3" Double Row
Voltage:	12/24 dual voltage with reverse polarity protection
LEDs:	4 x 5W Cree LEDs
Housing & Bracket	Aluminium pressure die-cast & extra tough glass reinforced polymer
Beam Type	Hybrid beam
Lenses	Hardcoated polycarbonate
Colour Temperature	5700°K
Current Draw (@13.5V/@28V)	1.11/0.53

PARTS AVAILABLE

COLOUR TRIMS

	10" EX2 Light Bar Single Row	10" EX2 Light Bar Double Row	20" EX2 Light Bar Single Row	20" EX2 Light Bar Double Row
Volcano (Red)	C 72142-RD	C 72160-RD	C 72170-RD	C 72180-RD
Juiced (Orange)	C 72142-OE	C 72160-OE	C 72170-OE	C 72180-OE
Sunburst (Yellow)	C 72142-YW	C 72160-YW	C 72170-YW	C 72180-YW
Hyper (Green)	C 72142-GN	C 72160-GN	C 72170-GN	C 72180-GN
Electric (Blue)	C 72142-BE	C 72160-BE	C 72170-BE	C 72180-BE
Bubblegum (Pink)	C 72142-PK	C 72160-PK	C 72170-PK	C 72180-PK
Slate (Grey)	C 72142-GY	C 72160-GY	C 72170-GY	C 72180-GY
Stealth (Black)	C 72142-BK	C 72160-BK	C 72170-BK	C 72180-BK

|	30" EX2 Light Bar Single Row	30" EX2 Light Bar Double Row	3" EX2 Pod Light Double Row
Volcano (Red)	C 72142-RD	C 72160-RD	C 72170-RD
Juiced (Orange)	C 72142-OE	C 72160-OE	C 72170-OE
Sunburst (Yellow)	C 72142-YW	C 72160-YW	C 72170-YW
Hyper (Green)	C 72142-GN	C 72160-GN	C 72170-GN
Electric (Blue)	C 72142-BE	C 72160-BE	C 72170-BE
Bubblegum (Pink)	C 72142-PK	C 72160-PK	C 72170-PK
Slate (Grey)	C 72142-GY	C 72160-GY	C 72170-GY
Stealth (Black)	C 72142-BK	C 72160-BK	C 72170-BK

SPARE PARTS

72892	10" Single Row LP Bracket
74426	EX2 RGB Bluetooth Controller
72262	2" Single Row Tube Mount
72263	2.5" Single Row Tube Mount
72264	3" Single Row Tube Mount
72266	2" Double Row Tube Mount
72267	2.5" Double Row Tube Mount
72268	3" Double Row Tube Mount
72241A	3" Double Row Amber Lens Cover
72241BL	3" Double Row Clear Lens Cover
72241BK	3" Double Row Black Lens Cover
72242A	10" Single Row Amber Lens Cover
72242BL	10" Single Row Clear Lens Cover
72242BK	10" Single Row Black Lens Cover
72243A	10" Double Row Amber Lens Cover
72243BL	10" Double Row Clear Lens Cover
72243BK	10" Double Row Black Lens Cover
72244A	20" Single Row Amber Lens Cover
72244BL	20" Single Row Clear Lens Cover
72244BK	20" Single Row Black Lens Cover
72245A	20" Double Row Amber Lens Cover
72245BL	20" Double Row Clear Lens Cover
72245BK	20" Double Row Black Lens Cover
72246A	30" Single Row Amber Lens Cover
72246BL	30" Single Row Clear Lens Cover
72246BK	30" Single Row Black Lens Cover
72247A	30" Double Row Amber Lens Cover
72247BL	30" Double Row Clear Lens Cover
72247BK	30" Double Row Black Lens Cover

FOR NEGATIVE SWITCHED VEHICLES ONLY

1. Using a 4PIN normally open relay (Narva P/no 68000), connect PIN 30 and PIN 85 to a constant +12V source with 5AMP inline fuse.

2. Connect negative (-) high beam wire from vehicle to Pin 86.

3. Connect Pin 87 to EX2 High beam feed
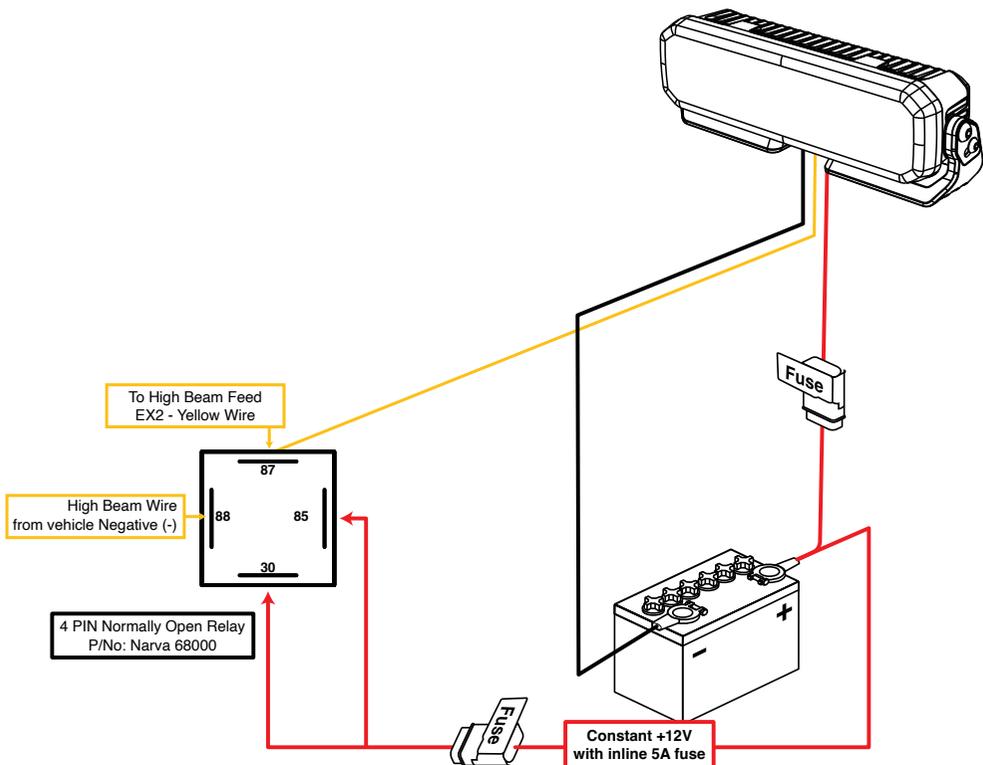
Fuse

To High Beam Feed
EX2 - Yellow Wire

87

High Beam Wire
from vehicle Negative (-)

88   85

30

4 PIN Normally Open Relay
P/No: Narva 68000

Fuse

Constant +12V
with inline 5A fuse

RED - POSITIVE
BLACK - NEGATIVE   ***Fuse not included (refer to table)**
YELLOW - HIGH BEAM FEED   ***Length of wires for diagram purposes only**

WARRANTY

Applicable only to product sold in Australia

Brown & Watson International Pty Ltd of 1500 Ferntree Gully Road, Knoxfield, Vic., telephone (03) 9730 6000, fax (03) 9730 6050, warrants that all products described in its current catalogue (save and except for all bulbs and lenses whether made of glass or some other substance) will under normal use and service be free of failures in material and workmanship for a period of one (1) year (unless this period has been extended as indicated elsewhere) from the date of the original purchase by the consumer as marked on the invoice. This warranty does not cover ordinary wear and tear, abuse, alteration of products or damage caused by the consumer.

To make a warranty claim the consumer must deliver the product at their cost to the original place of purchase or to any other place which may be nominated by either BWI or the retailer from where the product was bought in order that a warranty assessment may be performed. The consumer must also deliver the original invoice evidencing the date and place of purchase together with an explanation in writing as to the nature of the claim.

In the event that the claim is determined to be for a minor failure of the product then BWI reserves the right to repair or replace it at its discretion. In the event that a major failure is determined the consumer will be entitled to a replacement or a refund as well as compensation for any other reasonably foreseeable loss or damage.

This warranty is in addition to any other rights or remedies that the consumer may have under State or Federal legislation.

IMPORTANT NOTE

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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