

MODEL

SB15

Silver type

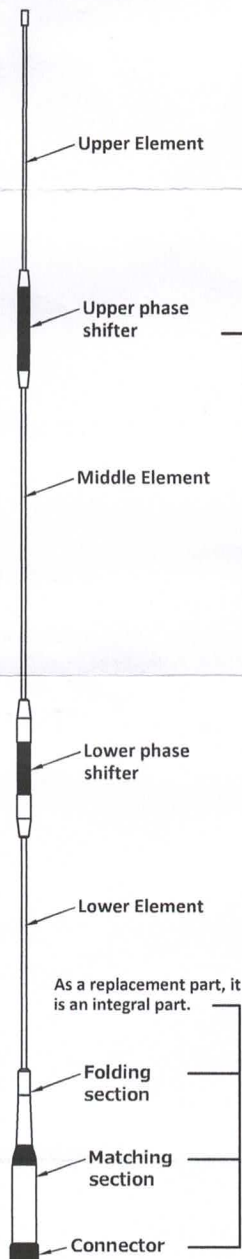
SBB15

Black type

Instruction Manual

Thank you for purchasing our products.

## 【 Appearance 】



For your safety :

Read this manual carefully for proper handling and operation before using.  
Keep this manual in a safe place for future reference.

## 【 Adjustment method 】

1. Basically, all three bands can be used without adjustment. If you need to adjust the frequency depending on the mounting point, please adjust the frequency by moving the lower element up and down, which is mainly located just above the folding section.

2. This antenna requires body grounding. If grounding is inadequate, the resonant frequency may move higher or the SWR may not decrease.

3. Make sure the SWR of the operating frequency is less than 1.5 before starting operation.

## 【 PRECAUTIONS for mounting 】

- Check if the connecting cable fits into the antenna connector. If they don't match, it could cause damages or disconnection.

- While driving, the antenna could fall down and VSWR could be higher due to the lack of ground contact area.

- VSWR could be higher than 1.5 in case you attach it to the base-up mast.

Placing any other antennas or electrical conductors nearby this product, or changing earthing means could make VSWR higher or fluctuate resonance frequency.

## 【 Specifications 】

Frequency	50/146/446MHz 3-bands
Gain	50MHz : 2.15dBi 1/4λ 146MHz : 4.5dBi 6/8λ C-phase 446MHz : 7.2dBi 5/8λ 3-steps
Max.Input power	120W(FM)
Impedance	50 Ω
VSWR	1.5 or less (Center frequency)
Length	Approx. 1.52 m
Weight	410 g
Connector	PL-259 (M-P)

Repeater Supported

Wideband receiving : 100~170MHz , 350~470MHz

## ⚠ Caution

- This product is designed for amateur radio communication only.
- If a phenomenon that seems to be abnormal occurs during use, stop using it immediately and check the antenna status.
- Check if the antenna connector fits into the radio connector.
- During continuous output, there is a possibility of element heat and deterioration of SWR. In that case, please reduce the output or increase the output interval.
- Repairs and modifications by the customer themselves may cause damage.
- If the telescopic element is bent, it is impossible to repair. Please handle it carefully.

## 【 Maintenance 】

☆If any unusual situation happens, stop using immediately and ask the local shop you purchased this product.

Confirm if the product works normally before operating.

Be sure to change the parts which have strength poverty or deformation across the ages etc.

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■ Specifications or appearance is subject to change without notice.

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