


# BOOSTER BOX BT-5 OPERATOR'S MANUAL

The Booster Box BT-5 boosts the output power of the FCV-295/1150/1200L/1900 from 3 kW to 5 kW.

**WARNING**



**ELECTRICAL SHOCK HAZARD**  
Do not open the equipment unless totally familiar with electrical circuits and service manual.

Only qualified personnel should work inside the equipment.

**WARNING**



Turn off associated echo sounder before beginning the installation.

Electrical shock may result if it is not turned off.

## Disclosure of Information about China RoHS

With regards to China RoHS information for our products, please refer to our website ([www.furuno.com](http://www.furuno.com)).

## Standard supply

BT-5 is available in two types: single frequency and dual frequency. Refer to the Packing List supplied with this product for details.

## Available transducers

5 kW: 28F-38M, 50F-38, 10 kW: 28F-72, 50F-70

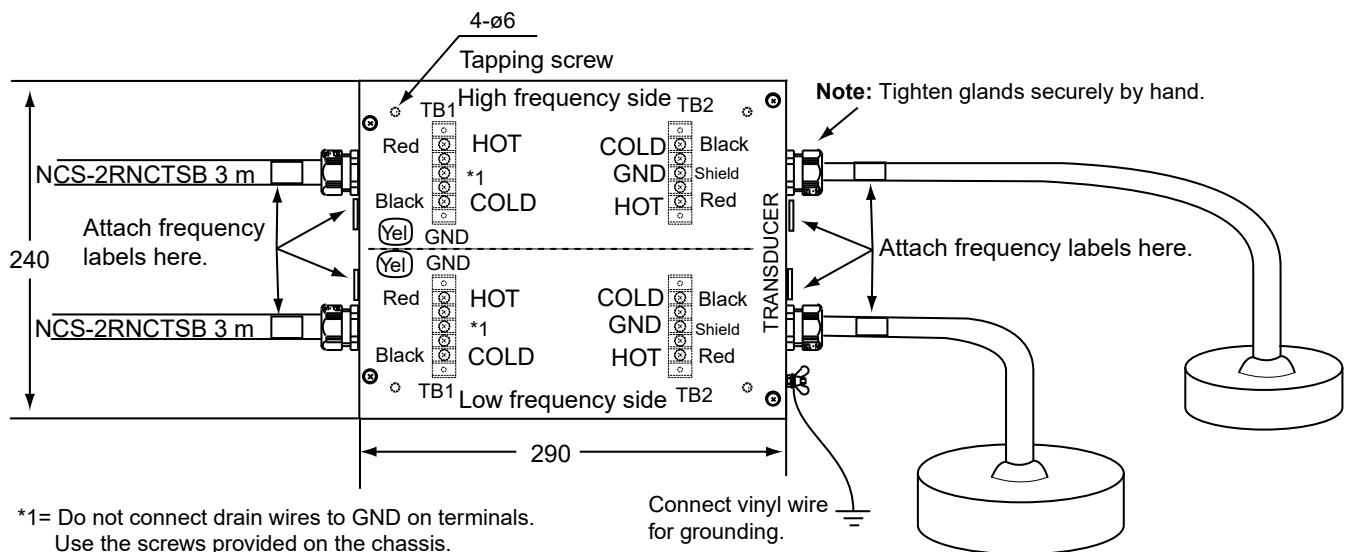
Refer to the transducer installation drawings for the transducer, thru-hull pipe and tank.

**Note:** 10 kW transducer can not output the maximum 10 kW power. Maximum output is about 5 kW.

## Mounting and connection

Compass safe distance: Standard, 0.9 m, Steering, 0.5 m

Choose 5 kW transducer in the initial settings of the echo sounder. For the 10 kW transducers, set 28F-72 as "28F-38M" and 50F-70 as "50F-38."



\*1= Do not connect drain wires to GND on terminals. Use the screws provided on the chassis.

**Note:** For single frequency type, connect 28 kHz or 50 kHz to "low frequency."



## **SPECIFICATIONS OF BOOSTER BOX BT-5**

This equipment boosts the output of color video sounder FCV-295/1150/1200L/1900 from 3 kW to 5 kW. Not only 5kW transducers, but also 10 kW transducers, 28F-72 and 50F-70 can be connected to the booster. However, 10 kW transducer's output power is boosted up 5 kW or less.

### **1 GENERAL**

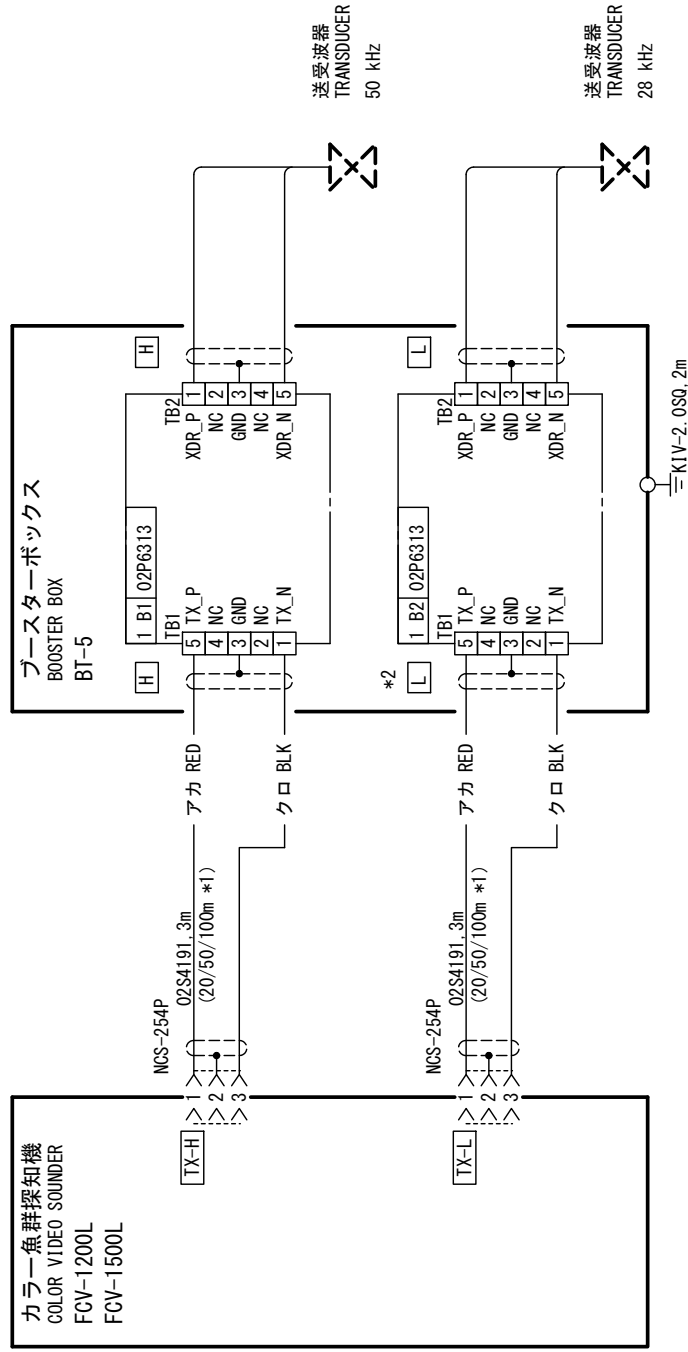
- |     |              |             |
|-----|--------------|-------------|
| 1.1 | Frequency    | 28.8/50 kHz |
| 1.2 | Output Power | 5 kW        |

### **2 ENVIRONMENTAL CONDITION**

- |     |                     |                |
|-----|---------------------|----------------|
| 1.1 | Ambient Temperature | -15°C to +55°C |
| 1.2 | Relative Humidity   | 95% at 40°C    |
| 1.3 | Waterproof          | IPX2           |
| 1.4 | Vibration           | IEC 60945      |

### **3 COATING COLOR**

2.5GY5/1.5



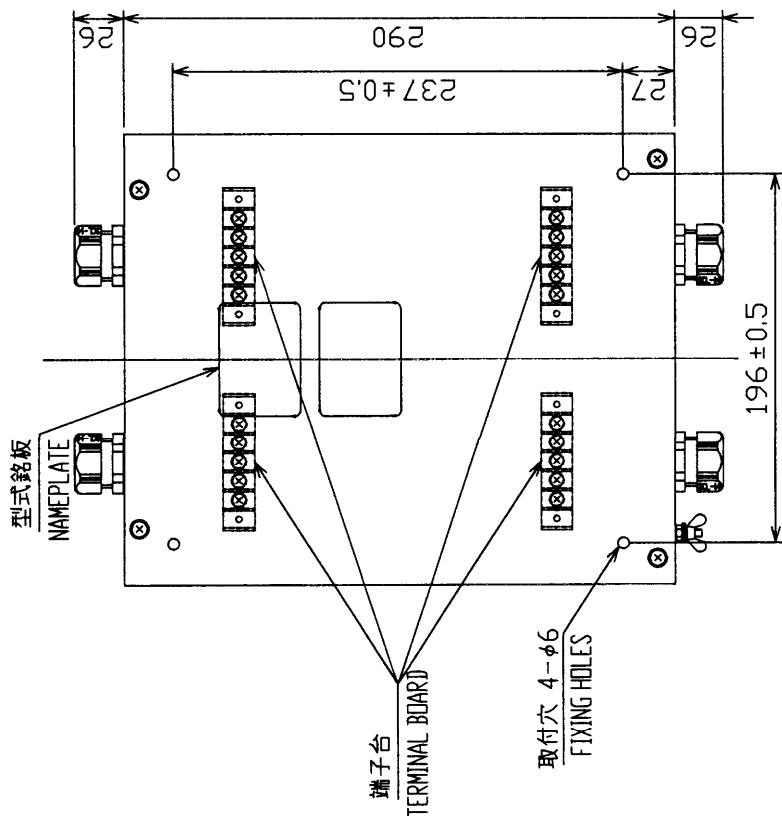
注記

- 1) オプション。
- 2) 1周波のときは、Lのみ使用する。

NOTE

1. OPTION.
2. SELECT 'L' PORT FOR SINGLE FREQUENCY.

DRAWN	18/Apr/2016 T. YAMASAKI	TITLE	BT-5
CHECKED	18/Apr/2016 H. MAKI	名称	ブースターボックス
APPROVED	20/Apr/2016 H. MAKI		相互結線図
SCALE	1/1000	NAME	BOOSTER BOX
DWG. No.	C2028-001-B	REF. No.	02-143-1001-0
			INTERCONNECTION DIAGRAM

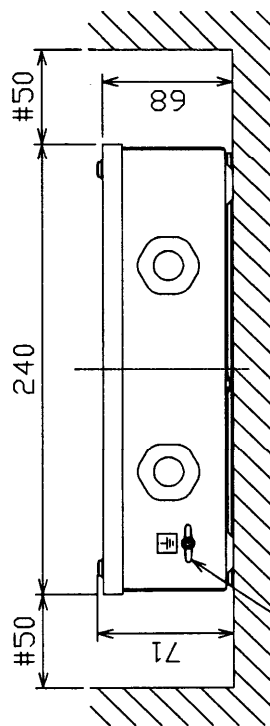
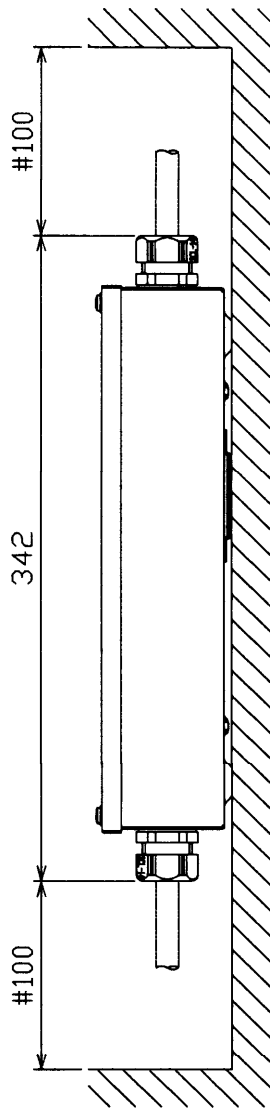


寸法区分 (mm) DIMENSION	公差 (mm) TOLERANCE
L ≤ 50	± 1.5
50 < L ≤ 100	± 2.5
100 < L ≤ 500	± 3

表 1 TABLE 1

- 注 記 1) #印寸法は最小サージスペース寸法とする。  
 2) 指定外の寸法公差は表 1 による。  
 3) 取付けには+トラスタップピンネジ呼び径5×2.5を使用のこと。

- NOTE 1. # RECOMMENDED SERVICE CLEARANCE.  
 2. TABLE 1 INDICATES TOLERANCE OF DIMENSIONS.  
 3. USE TAPPING SCREWS 5x2.5 FOR FIXING THE UNIT.



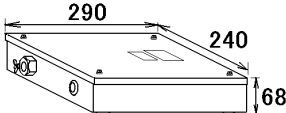
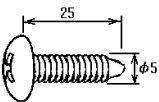

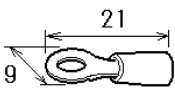
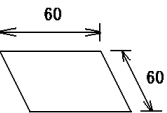
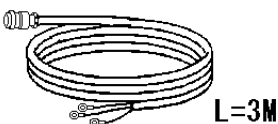
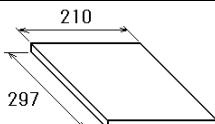
DRAWN	June 14 '02	T. YAMASAKI	TITLE	BT-5
CHECKED	June 14 '02	Y. K.	名称	ブースターボックス
APPROVED	June 14 '02	Y. K.	外寸図	
SCALE	1/4	MASS 2.6 ± 10% KG	NAME	BOOSTER BOX
DWG. No.	C2028-G01-A		02-143-100G-0	OUTLINE DRAWING

# P A C K I N G L I S T

02FQ-X-9851 -12 1/1

BT-5-1

A-1

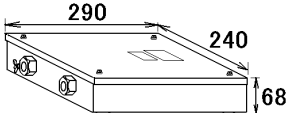
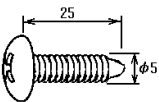

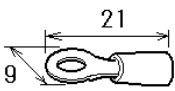
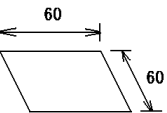
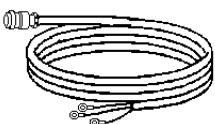
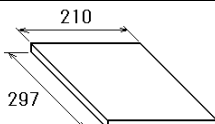
N A M E	O U T L I N E	DESCRIPTION/CODE No.	Q' TY
<b>ユニット UNIT</b>			
ブースターボックス BOOSTER BOX		BT-5-1 000-012-522-00	1
<b>工事材料 INSTALLATION MATERIALS</b>			
+トラスタップインネジ 1シユ SELF-TAPPING SCREW		5X25 SUS304 000-162-610-10	4
UL1015ヨリセン EQUIPMENT WIRE UL-1015		UL1015LF-#14 BLK*2M* 000-199-544-10	1
圧着端子 CRIMP-ON LUG		FV2-4 BLU K 000-157-247-11	10
周波数マーク FREQUENCY LABEL		02-143-1105-1 ROHS 100-300-431-10	2
<b>工事材料 INSTALLATION MATERIALS</b>			
ケーブル(クミヒン) CABLE ASSEMBLY		NCS-2RNCTSB *3M* 000-146-169-11	1
<b>図書 DOCUMENT</b>			
取扱説明書(J/E) OPERATOR'S MANUAL (JP/EN)		OMC-20280-* 000-809-330-1*	1

# PACKING LIST

02FQ-X-9852 -10 1/1

BT-5-2

A-2

NAME	OUTLINE	DESCRIPTION/CODE No.	QTY
<b>ユニット UNIT</b>			
ブースターボックス BOOSTER BOX		BT-5-2 000-012-523-00	1
<b>工事材料 INSTALLATION MATERIALS</b>			
+トラスタップインネジ 1シユ SELF-TAPPING SCREW		5X25 SUS304 000-162-610-10	4
ビニル線 VINYL WIRE		KIV 2.0SQ 4口 *2M* 000-554-516-10	1
圧着端子 CRIMP-ON LUG		FV2-4 BLU K 000-157-247-11	15
周波数マーク FREQUENCY LABEL		02-143-1105-1 ROHS 100-300-431-10	2
<b>工事材料 INSTALLATION MATERIALS</b>			
ケーブル(クミヒン) CABLE ASSEMBLY		NCS-2RNCTSB *3M* 000-146-169-11	2
<b>図書 DOCUMENT</b>			
取扱説明書(J/E) OPERATOR'S MANUAL (JP/EN)		OMC-20280-* 000-809-330-1*	1

(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

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