

BOOSTER BOX BT-5 OPERATOR'S MANUAL

The Booster Box BT-5 boosts the output power of the FCV-1200L 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.

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

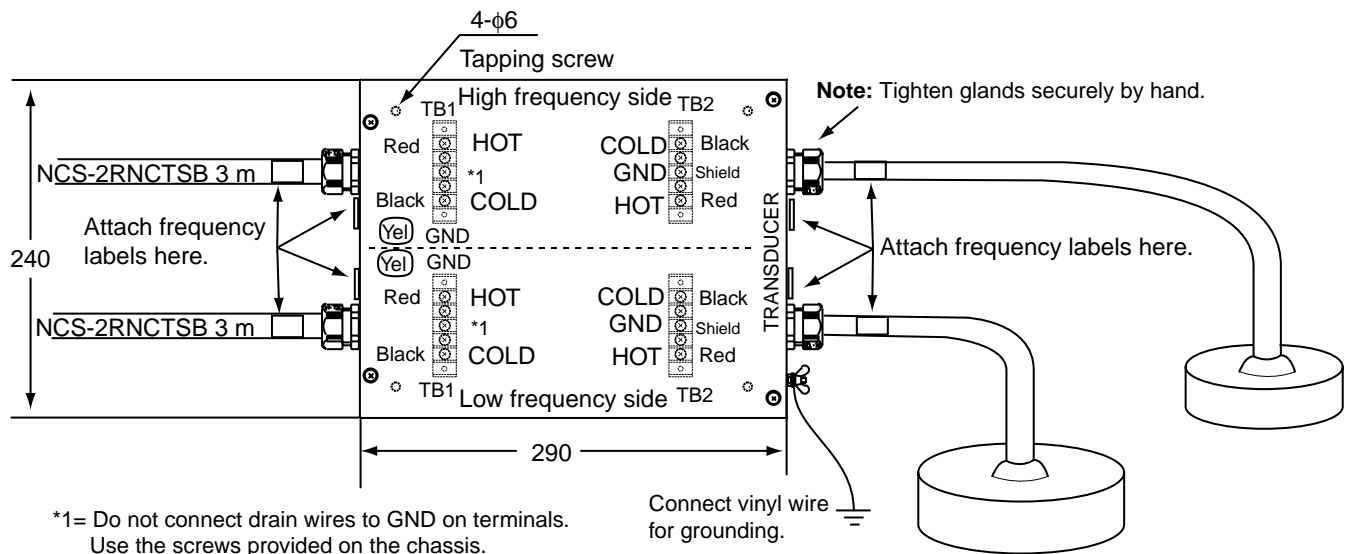
Refer to the transducer installation drawings for the transducer, thru-hull pipe and tank.

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 to "low frequency"; 50 kHz to "high frequency."



SPECIFICATIONS OF BOOSTER BOX BT-5

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

1 GENERAL

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

2 ENVIRONMENTAL CONDITION

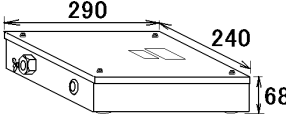
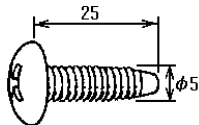
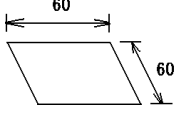

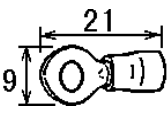
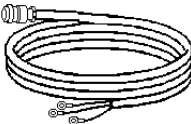
- | | | |
|-----|---------------------|------------------|
| 1.1 | Ambient Temperature | -15° C to +55° C |
| 1.2 | Relative Humidity | 95% at 40° C |
| 1.3 | Waterproof | IPX2 |
| 1.4 | Vibration | IEC 60945 |

3 COATING COLOR

2.5GY5/1.5

PACKING LIST

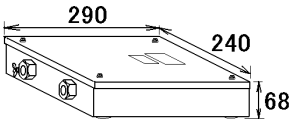
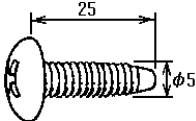
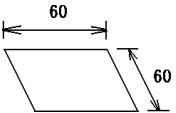

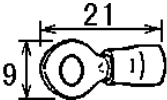
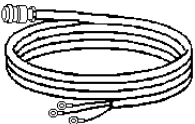
BT-5-1

NAME	OUTLINE	DESCRIPTION/CODE No.	Q'TY
ユニット BOOSTER BOX	UNIT 	BT-5-1 000-012-522	1
工事材料	INSTALLATION MATERIALS	CP02-07201	
+トラスタップピンシ 1種 TAPPING SCREW		5X25 SUS304 000-802-082	4
周波数マーク FREQUENCY LABEL		02-143-1105-1 100-300-431	2
ビニール線 VINYL WIRE		KIV 2.0SQ 4口 *2M* 000-554-516	1
圧着端子 CRIMP-ON LUG		FV2-4 7オ 000-538-118	10
その他工材	OTHER INSTALLATION MATERIALS		
ケーブル組品 CABLE ASSY.		NCS-2RNCTSB *3M* 000-146-169	1

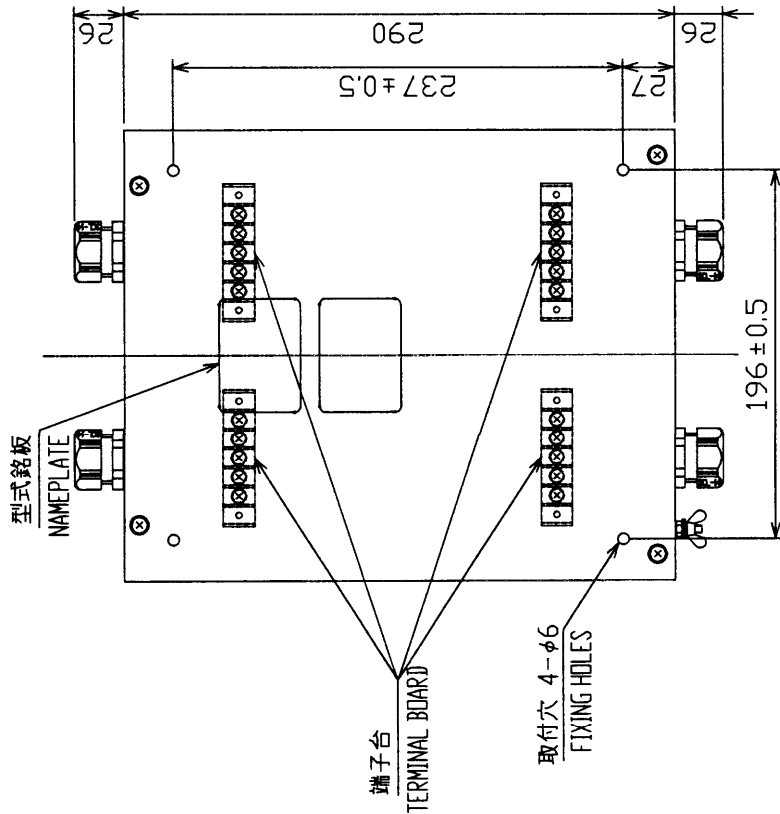
(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

PACKING LIST

BT-5-2

NAME	OUTLINE	DESCRIPTION/CODE No.	Q'TY
ユニット UNIT			
ブースターボックス BOOSTER BOX		BT-5-2 000-012-523	1
工事材料 INSTALLATION MATERIALS CP02-07211			
+トラスタップピンシ 1種 TAPPING SCREW		5X25 SUS304 000-802-082	4
周波数マーク FREQUENCY LABEL		02-143-1105-1 100-300-431	2
ビニール線 VINYL WIRE		KIV 2.0SQ クロ *2M* 000-554-516	1
圧着端子 CRIMP-ON LUG		FV2-4 7オ 000-538-118	15
その他工材 OTHER INSTALLATION MATERIALS			
ケーブル組品 CABLE ASSY.		NCS-2RNCTSB *3M* 000-146-169	2

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

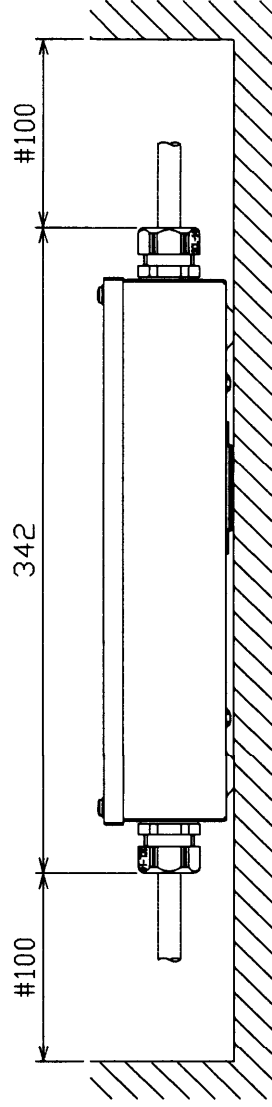
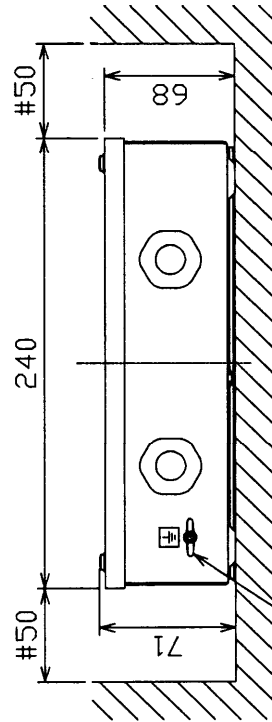


寸法区分 (mm) DIMENSION	公差 (mm) TOLERANCE
L ≤ 50	± 1.5
50 < L ≤ 100	± 2.5
100 < L ≤ 500	± 3

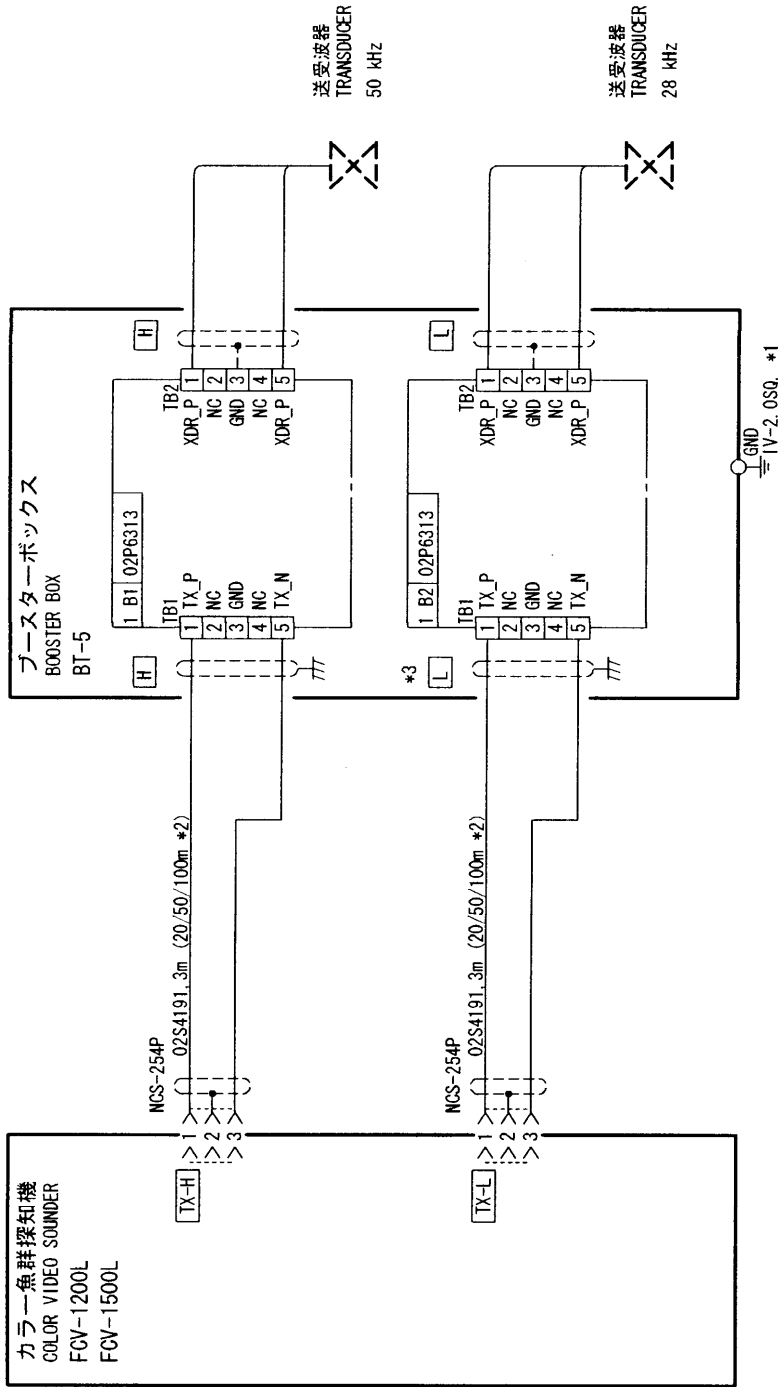
表 1 TABLE 1

- 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	



注記

- 1) 現地手配。
- 2) オプション。
- 3) 1周波のときは、Lのみ使用する。

NOTE

1. LOCAL SUPPLY.
2. OPTION.
3. SELECT 'L' PORT FOR SINGLE FREQUENCY.

DRAWN	JULY 10 '02	T. YAMASAKI	TITLE	BT-5
CHECKED			名称	ブースターボックス
APPROVED			相互結線図	
SCALE			NAME	BOOSTER BOX
DWG No	C2028-C01-A	02-143-1001	INTERCONNECTION DIAGRAM	