

□ 製品 ☒ ユニット

No. 1 / 2

ユーザー名				指図番号	枝番	出図印	承認	検印	担当
来歴	19	2019/12/27	制御盤扉ハンドル位置見直し	作成 高橋 正信	承認 米田 優也				
	18	2018/09/14	ブザー生産終了による回路図変更。	作成 鄭 燦默	承認 中野 正幸				
	17	2018/03/07	部品型式、カレンダータイマBOX取付位置変更変更	作成 鄭 燦默	承認 坂下 博之		納期	取扱説明書	
	16	2017/03/03	誤記修正	作成 中野 正幸	承認 糸井 昭治				
塗装	M	☒ AN-80 ☐ DIC-547 (旧色) ☐ 日塗工D22-80X (安全色) ☐ 日塗工D22-80X (梯子手摺)			指定色: 本体 _____ 安全色 _____		梯子手摺 _____		
	E	制御盤外面色 AN-80 制御盤内面色 AN-80 リレー板色 AN-80 ☐ 艶有り ☐ 半艶							
盤内配線色 ☐ 新JIS ☐ 旧マツイ標準 ☐ ユーザ指定 ☒ 標準機仕様									

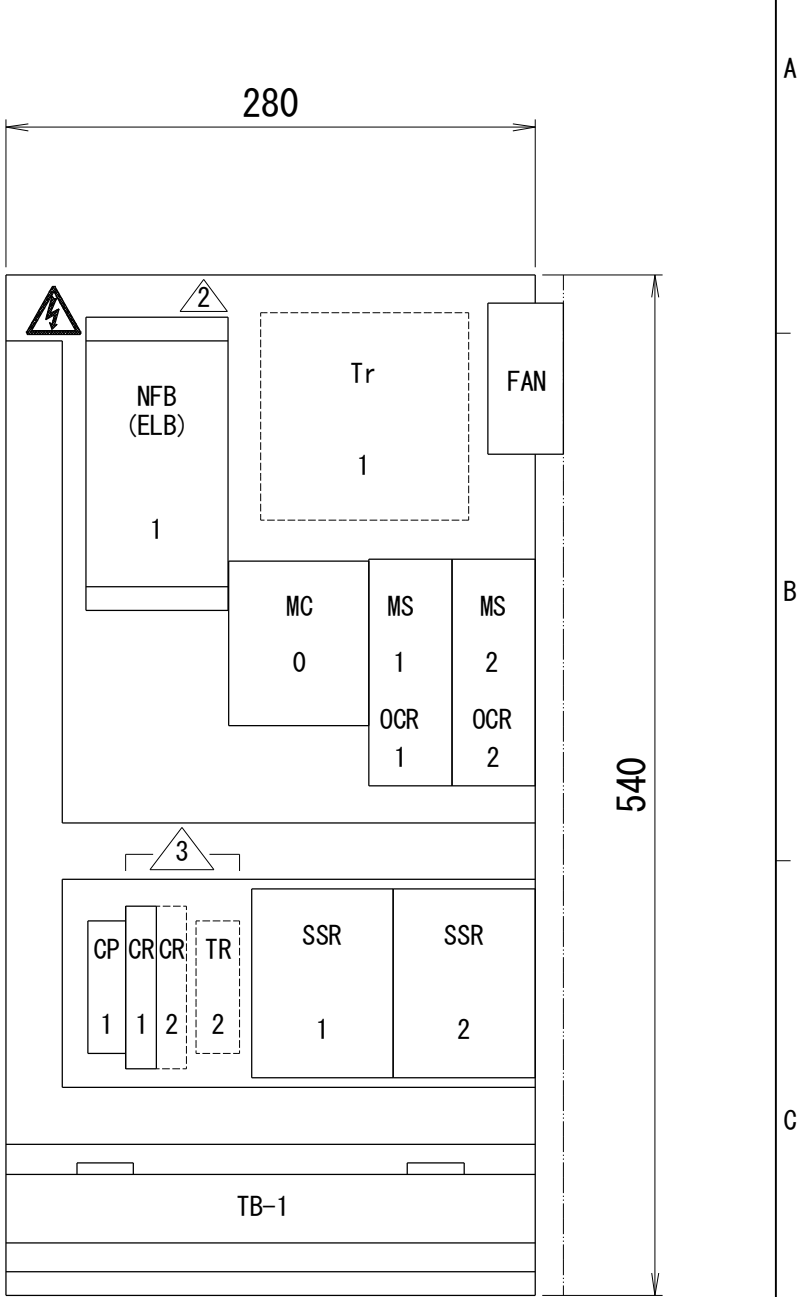
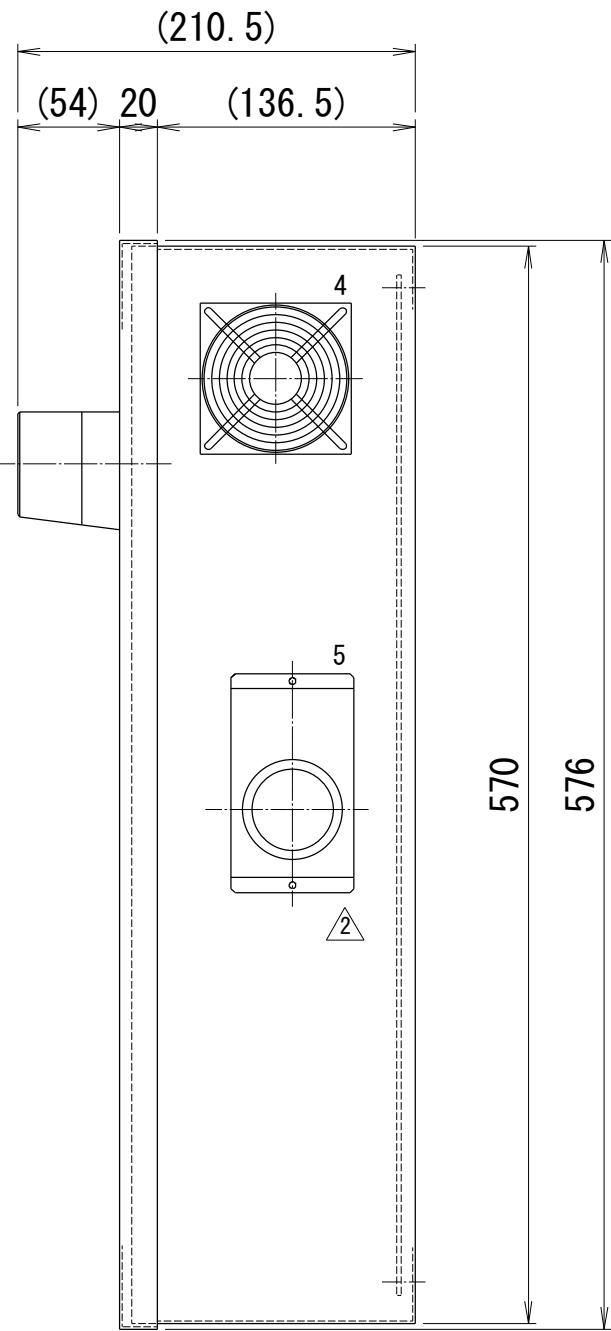
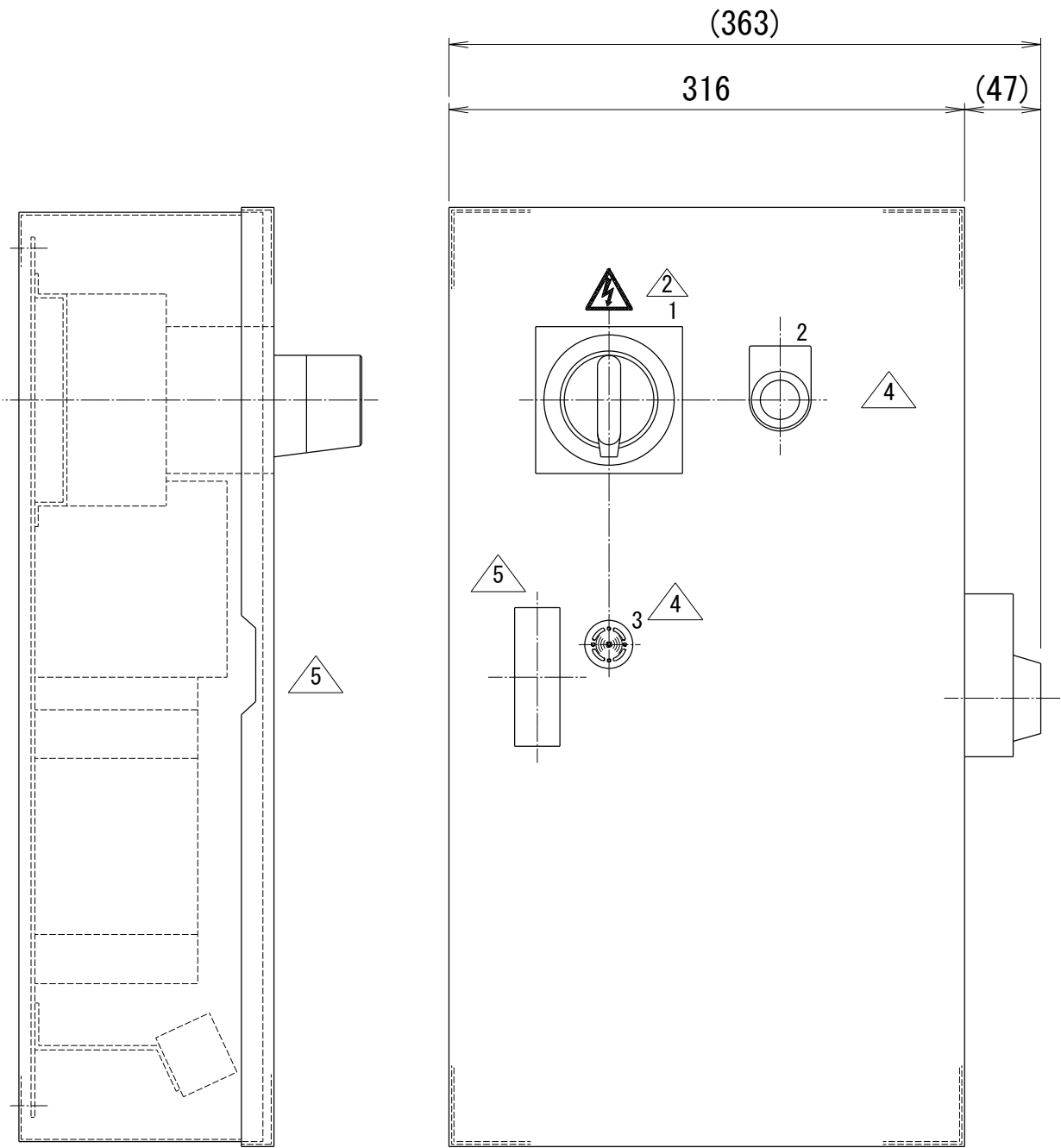
機種コード	700201	名称	マツイグローバルライヤー制御盤図		作成年月	仕上げ及び製図規定
図面番号	165810	型式	MGD-75J/E		2002/03/10	図面指示以外のものはMST-536加工標準、MST-541製図規定及び241-003製品検査手順(基準)を適用し、不足分についてはJIS規格を適用する。また、動作的確認に関しては、妥当性確認チェックリストの内容を適用する。
担当	時田 正光	承認	嶋津 秀樹		電源電圧 ☐ 50Hz ☐ 60Hz 操作電圧	

図面番号	サイズ	分類コード	種	名称 型式	単数	製作数	備考	改訂
165810	A3	700201	ユ	マツイグローバルライヤー制御盤図 MGD-75J/E	1	1		
165796	A3			操作パネル MGD-15-300J	1	1	MGD-15~300J	
168367	A3			カレンダータイマーBOX MGD-15-300J	1	1	MGD-15~300J ※ Option	
D01585	A3			部品表(操作回路AC200V) MGD-15-100J/E	1	1	MGD-15~100J	
D01586	A3			部品表(操作回路AC100V) MGD-15-100J/E	1	1	MGD-15~100J	
168341	A3			電圧別部品選定表 MGD-15/300J	1	1	MGD-15~300J	
165811	A3縦	700201	ユ	回路図(1) MGD-75J/E	1	1	MGD-75J	
165798	A3縦			回路図(2) MGD-15-300J	1	1	MGD-15~300J	
166393	A3縦			回路図(3) MGD-15-300J	1	1	MGD-15~300J ※ Option	
165858	A3縦			MGD-***J JCRミット制御接続図	1	1	MGD-15~300J	
165859	A3縦			MGD-***J JCLレベル計制御接続図	1	1	MGD-15~300J	
165860	A3縦			MGD-***J LGVHLレベル計制御接続図	1	1	MGD-15~300J	
165861	A3縦			MGD-***J M.FGVH-E2K制御接続図	1	1	MGD-15~300J	
165862	A3縦			MGD-***J ASDレベル計制御接続図	1	1	MGD-15~300J	
165863	A3縦			MGD-***J パッチダンパー制御接続図	1	1	MGD-15~300J	
165864	A3縦			MGD-***J JSV制御接続図	1	1	MGD-15~300J	
165865	A3縦			MGD-***J APH-E3Z制御接続図	1	1	MGD-15~300J	
165799	A3			板金図(1) MGD-15-100J/E制御盤本体	1	1	MGD-15~100J	
165800	A4			板金図(2) MGD-15-100J/E制御盤扉	1	1	MGD-15~100J	
165801	A4			板金図(3) MGD-15-100J/E制御盤リレー板	1	1	MGD-15~100J	

[illegible]



ITEM NO.	DESCRIPTION	REQ. D	MATERIAL	REFERENCE



TB-1 TERMINAL BLOCKS LAYOUT 31P
TB-1端子台配列図 31P

R1	S1	T1	R21	R21	1	45	52	53	54	55	56	62	63	S10	S10	S10	S10	AL1	AL2	34	35	21	22	23	24	25	26	27	27
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Standard dwg.
標準図

REVISION	5	DEC. /25/2019	Notch added 切り欠き追加	TAKAHASHI	YONEDA	SCALE	1/4	CODE NO.	700201	ユ						
	4	AUG. /29/2018	Model change (Buzzer) ブザー型式変更	T. OKUDA	C. JEONG	M. NAKANO	APPROVED BY		H. SHIMAZU	FORM	PANEL LAYOUT		NAME	MGD-75J	DWG. NO.	1 6 5 8 1 0
	3	Feb. /16/2018	Part type change 部品型式変更	T. OKUDA	C. JEONG	M. NAKANO										
	2	NOV. /7/2011	Model change 型式変更	TSUJI	OKUDA	DRAWN BY		—	UNIT mm	PLANE TRIGONOMETRY	MATSUI MFG. CO., LTD.					
	MARK	DATE	CONTENTS		CHKD	APPD										

1

2

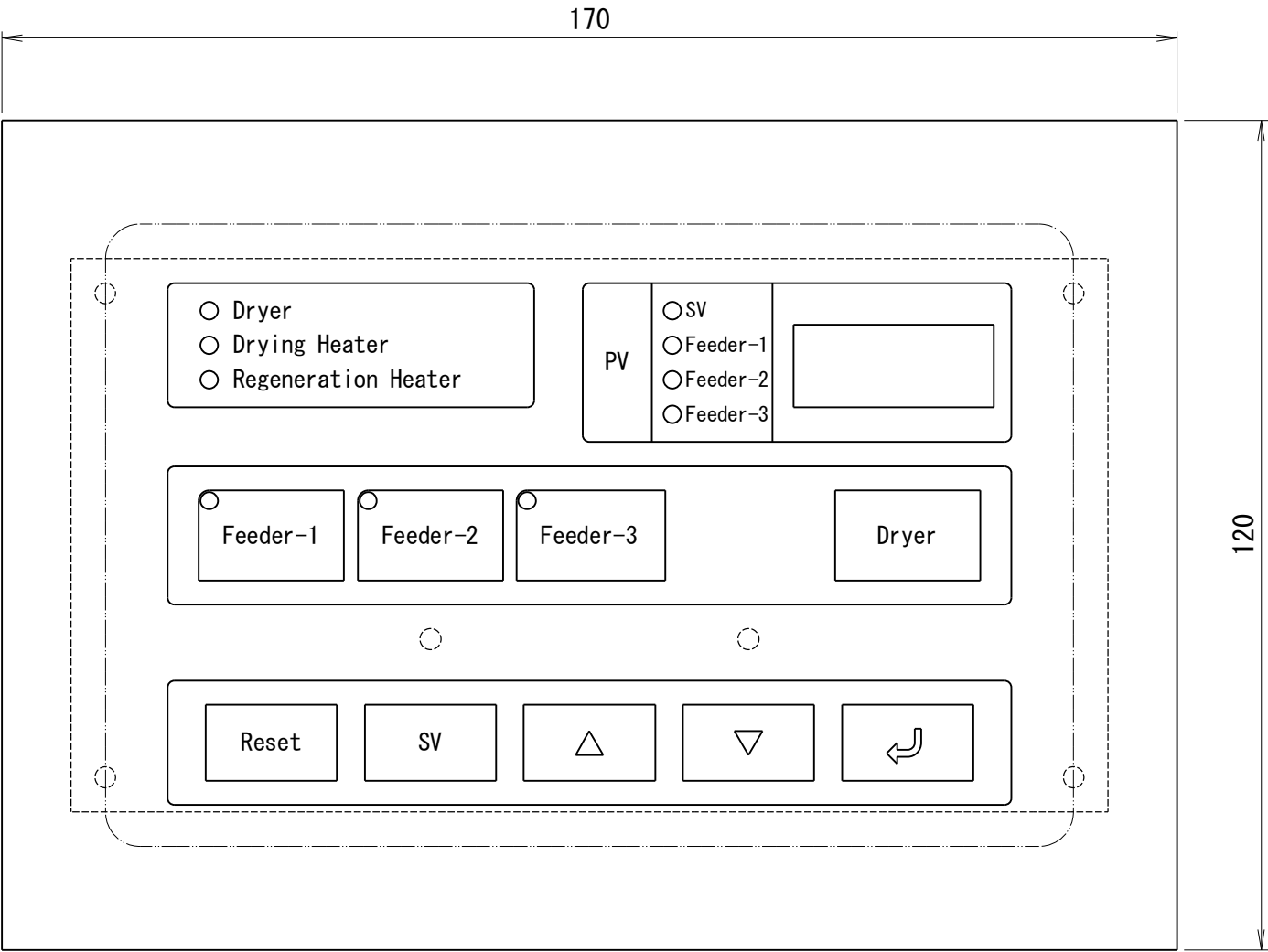
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ITEM NO.	DESCRIPTION	REQ. D	MATERIAL	REFERENCE
TC-1	TEMP. CONTROLLER	1	TOHO ELEC.	G2422
	温度調節器		東邦電子	



Standard dwg.
標準図

REVISION	△					SCALE	1/1	CODE NO.						
	△					APPROVED BY		H. SHIMAZU	FORM	PANEL LAYOUT				
	△					DSGND (CHKD) BY		M. TOKITA	DATE	MAR. 7. 2002	NAME	MGD-15~300J	DWG. NO.	1 6 5 7 9 6
	△					DRAWN BY		—	UNIT mm	PLANE TRIGONOMETRY	MATSUI MFG. CO., LTD.			
MARK	DATE	CONTENTS			CHKD	APPD								

1

2

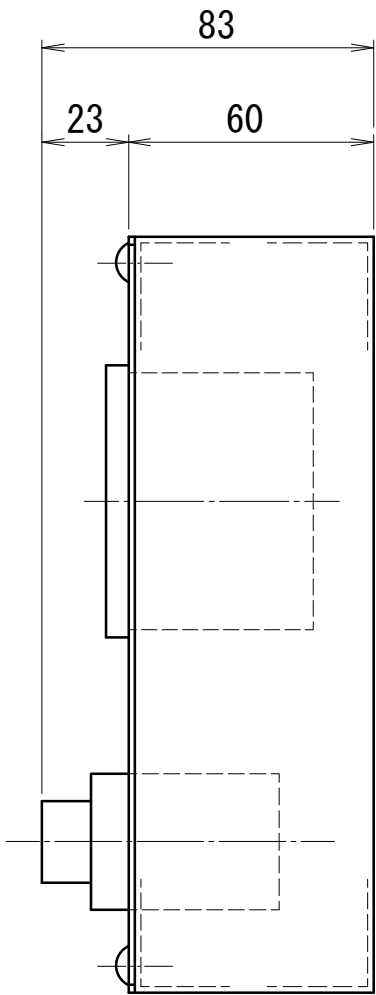
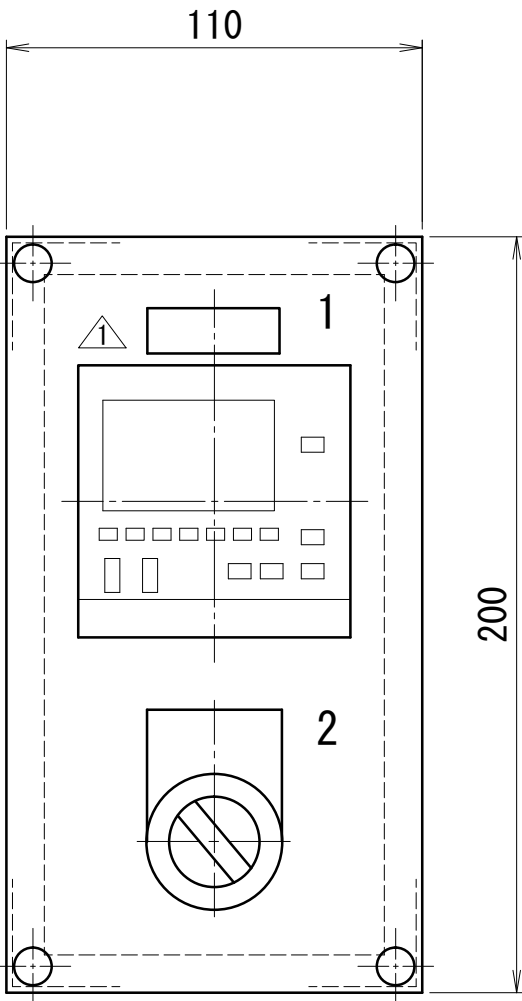
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ITEM NO.		DESCRIPTION	REQ. D	MATERIAL	REFERENCE
1	TR-1	WEEKLY TIMER カレンダータイマ	1	OMRON オムロン	H5S-WB2 (ENGLISH)
					H5S-WA2 (JAPANESE)
2	(S-1)	SELECT SWITCH セレクトスイッチ	1	FUJI ELEC. 富士電機	AR30PR-210B



Standard dwg.
標準図

REVISION						SCALE	1/2	CODE NO.		
						APPROVED BY		M. TOKITA	FORM	PANE LAYOUT
						DSGND (CHKD) BY		Y. SHIRAISHI	DATE	MAY. /21/2002
	1	DEC/22/2006	Model Change 生産中止による型式変更	TSUJI	—	DRAWN BY		—	UNIT mm	PLANE TRIGONOMETRY
	MARK	DATE	CONTENTS	CHKD	APPD					

MATSUI MFG. CO., LTD.



A triangle with the number 1 inside.



A triangle with the number 1 inside.

Standard dwg.
標準図

REVISION						SCALE		CODE NO.								
						APPROVED BY		M. NAKANO	FORM	PARTS LIST	NAME	MGD-15~100J Control circuit 操作回路 AC200V	DWG. NO.	D 0 1 5 8 5		
		AUG. /29/2018	Model change (Buzzer) ブザー型式変更		T. OKUDA										C. JEONG	M. NAKANO
		Feb. /16/2018	Part type change 部品型式変更		T. OKUDA	C. JEONG	M. NAKANO	DSGND (CHKD) BY		K. TSUJI					DATE	SEP. /28/2015
	MARK	DATE	CONTENTS		CHKD	APPD	DRAWN BY		C. MORITA	UNIT mm					PLANE TRIGONOMETRY	
											MATSUI MFG. CO., LTD.					
1 2 3 4 5																

A triangle with the number 1 inside.1

NOTE : *1 OPTION PARTS

C

D



POWER SUPPLY 電源	TYPE 型式	CIRCUIT BREAKER ノーヒューズブレーカ	EARTH LEAKAGE BREAKER 漏電ブレーカ	TERMINAL COVER 端子カバー	MOTOR STARTER 電磁開閉器  		MAGNETIC CONTACTOR 電磁接触器	SOLID STATE RELAY ソリッドステートリレー		RADIATOR 放熱器		
		NFB-1  	(ELB-1)  	 	MS-1	MS-2  	MC-0  	SSR-1, 2	SSR-3, 4			
AC200V 50/60Hz AC220V 60Hz 	MGD-15	NF32-SV 3P 30A	NV63-CV 3P 30A 30mA	TCS-05SV3	MSO-T10KP 0. 17A (0. 14-0. 22)	MSO-T10KP 5A (4-6)	S-T10	G3NA-210B		Y92B-N50		
	MGD-25				MSO-T10KP 0. 7A (0. 55-0. 85)		S-T12	G3NA-220B		Y92B-N100		
	MGD-50						S-T20					
	MGD-75 (標準)	NF32-SV 3P 30A	NV63-CV 3P 30A 30mA				S-T21	G3NA-240B				
	MGD-75 (高温)	NF63-CV 3P 40A	NV63-CV 3P 40A 30mA									
	MGD-100 (標準)	NF63-CV 3P 40A	NV63-CV 3P 40A 30mA									
	MGD-100 (高温)	NF63-CV 3P 50A	NV63-CV 3P 50A 30mA									
	MGD-150	NF63-CV 3P 60A	NV63-CV 3P 60A 30mA		MSO-T10KP 1. 7A (1. 4-2)	MSO-T20KP 9A (7-11) 	 S-T35	G3NA-240B				
	MGD-200	NF125-CV 3P 100A	NV125-CV 3P 100A 30mA	TCS-1SV3			 S-T50	SS301-5Z-A4 (SS301-5Z-A3)				
	MGD-250						 S-T65CW	SS501-5Z-A4 (SS501-5Z-A3)				
	MGD-300											
AC380V 50Hz AC400V 50Hz AC415V 50Hz AC440V 60Hz	MGD-15	NF32-SV 3P 15A	NV63-CV 3P 15A 30mA	TCS-05SV3	MSO-T10KP 0. 12A (0. 1-0. 16)	MSO-T10KP 2. 5A (2-3)	S-T10	G3NA-410B		Y92B-N50		
	MGD-25	NF32-SV 3P 20A	NV63-CV 3P 20A 30mA		MSO-T10KP 0. 35A (0. 28-0. 42)		S-T12					
	MGD-50				MSO-T10KP 0. 35A (0. 28-0. 42)		S-T20	G3NA-420B				
	MGD-75	NF32-SV 3P 30A	NV63-CV 3P 30A 30mA				S-T21					
	MGD-100						 S-T35					
	MGD-150		MSO-T10KP 50Hz 0. 9A (0. 7-1. 1)		MSO-T10KP 5A (4-6) 	 S-T50	G3NA-440B	G3NA-420B				
	MGD-200	NF63-CV 3P 50A	NV63-CV 3P 50A 30mA			MSO-T10KP 60Hz 0. 7A (0. 55-0. 85)			 S-T65CW			
	MGD-250					MSO-T10KP 0. 9A (0. 7-1. 1)			 			
	MGD-300											

*1

注記 : *1 オプション部品

*2 オプション 操作電圧100V

NOTE : *1 OPTION PARTS

*2 CIRCUIT VOLTAGE AC100V

Standard dwg.
標準図

REVISION						SCALE		CODE NO.								
						APPROVED BY		M. TOKITA	FORM	PARTS LIST		NAME	MGD-15~300J	DWG. NO.	1 6 8 3 4 1	
	10	MAR./03/2017	Error in writing correction 誤記訂正	M. NAKANO	A. ITOI				DATE	MAY. /21/2002						
	9	AUG. /01/2016	Model Change 生産中止による型式変更	C. JEONG	M. NAKANO	DSGND (CHKD) BY		Y. SHIRAISHI								
	MARK	DATE	CONTENTS	CHKD	APPD	DRAWN BY		—	UNIT mm	PLANE TRIGONOMETRY						MATSUI MFG. CO., LTD.

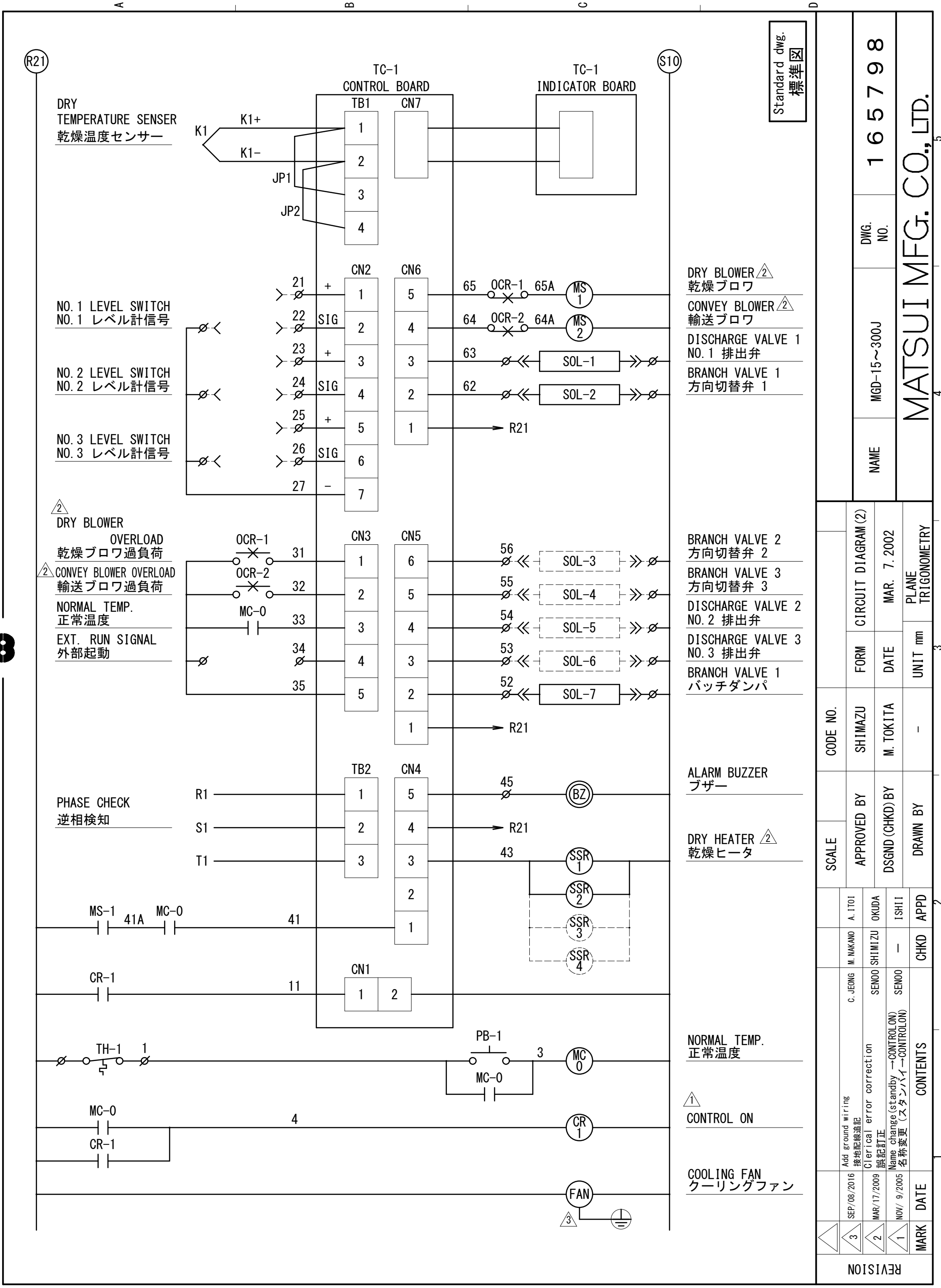
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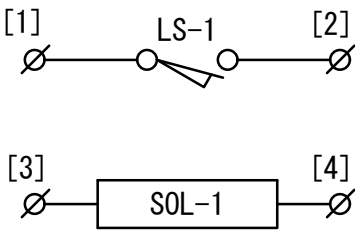
[JC limit control wiring instructions]

【JCリミット制御配線要領】

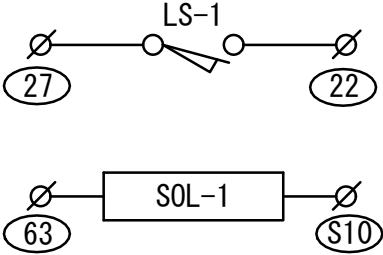
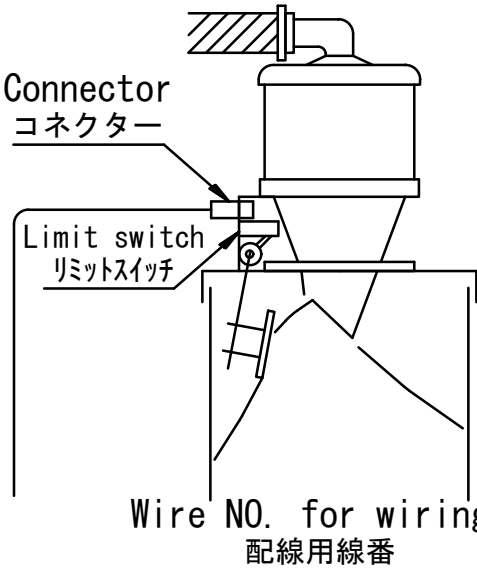
- ・Wire the connector pin NO. as follows.
- ・コネクタピンNO. は、下記の様に配線します。

Primary transport suction type material collector equipment
一次輸送吸引式材料捕集装置

1 direction standardized jet clone
1方向規格ジェットクロン



[] NJC204PF (制御)
NJC204RM (JC)



Mount to cable connector as follows.

ケーブルコネクタに取付ける場合、下記の様に取付て下さい。

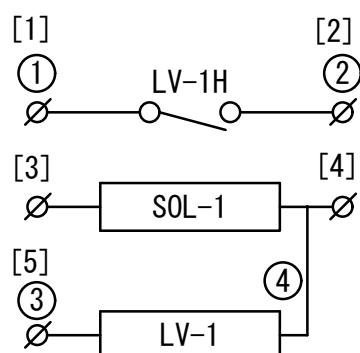
Connector pin NO. コネクタピンNO.		1	2	3	4	5	6	7
Number of cores 芯数	Connector コネクタ							
2	NJC-202	Black 黒	White 白					
3	NJC-203	Red 赤	White 白	Black 黒				
4	NJC-204	Red 赤	White 白	Black 黒	Green 緑			
5	NJC-205	Red 赤	White 白	Black 黒	Green 緑	Yellow 黄		

Standard dwg.
標準図

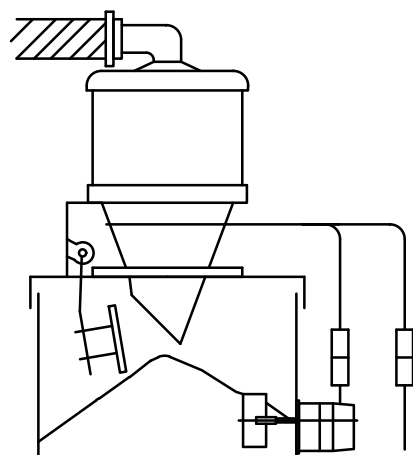
NAME		MGD-***J	DWG. NO.	165858
MATSUI MFG. CO., LTD.				
JC limit control connection JCリミット制御接続図		FORM	DATE	UNIT mm
CODE NO.		SHIMAZU	TOKITA	—
APPROVED BY		DSGND (CHKD) BY	DRAWN BY	APPD
SCALE		CONTENTS		
REVISION		MARK	DATE	

【JCLレベル計制御配線要領】

1 direction level swich control
1方向レベル計制御

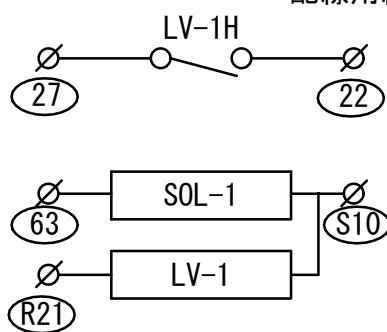


ONJC204PF (JC)



Wire NO for wiring
配線用線番

Level Switch
レベル計



ケーブルコネクタに取付ける場合、下記の様に取付て下さい。

Connector pin NO. コネクタピンNO.		1	2	3	4	5	6	7
Number of cores 芯数	Connector コネクタ							
2	NJC-202	Black 黒	White 白					
3	NJC-203	Red 赤	White 白	Black 黒				
4	NJC-204	Red 赤	White 白	Black 黒	Green 緑			
5	NJC-205	Red 赤	White 白	Black 黒	Green 緑	Yellow 黄		

Standard dwg. 標準図

1658

DWG.

MGD-***J

NAME _____

MATSUI MFG. CO., LTD.

UC level meter control
 connection drawing
 JCレベル計制御接続図

MAR. /7/2002

DATE _____

— TOKITA

SGND (CHKD) BY

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REVISION

[LGVH level meter control wiring instructions]

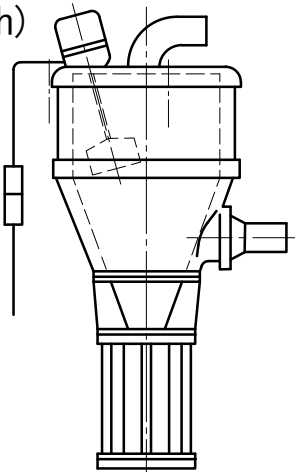
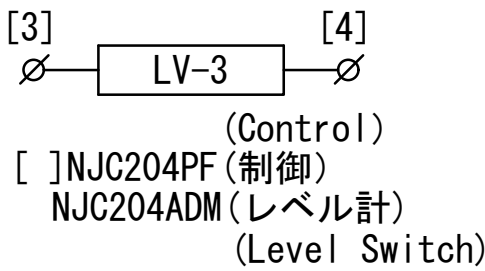
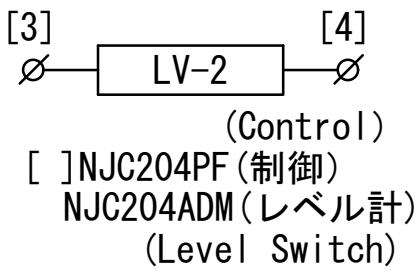
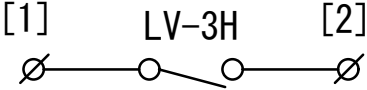
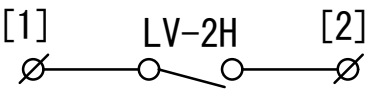
【LGVHレベル計制御配線要領】

- Wire connector pin as follows.
- コネクターピンNO. は、下記の様に配線します。

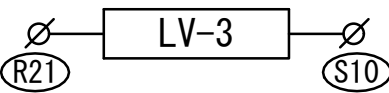
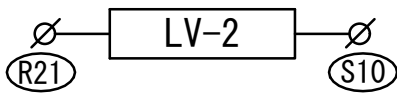
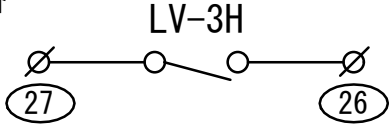
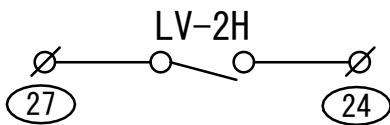
Suction type material collector equipment without secondary transport damper
二次輸送ダンパー無し吸引式材料捕集装置

Level control without 1 direction damper
1方向ダンパー無しレベル制御

Level control without 2 direction damper
2方向ダンパー無しレベル制御



Wire NO. for wiring
配線用線番



Mount to cable connector as follows.
ケーブルコネクターに取付ける場合、下記の様に取付て下さい。

Connector pin NO. コネクターピンNO.		1	2	3	4	5	6	7
Number of cores 芯数	Connector コネクター							
2	NJC-202	Black 黒	White 白					
3	NJC-203	Red 赤	White 白	Black 黒				
4	NJC-204	Red 赤	White 白	Black 黒	Green 緑			
5	NJC-205	Red 赤	White 白	Black 黒	Green 緑	Yellow 黄		

Standard dwg.
標準図

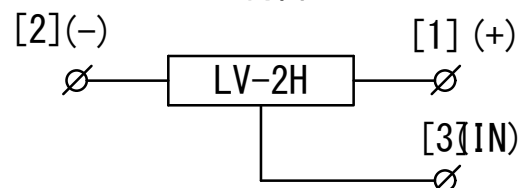
		165860		MATSUI MFG. CO., LTD.	
		DWG. NO.		NAME	
		MGD-***J		PLANE TRIGONOMETRY	
		M. FGVH-E2K control connection diagram LGVHレベル計制御接続図		DATE	
		FORM		UNIT mm	
		SHIMAZU		TOKITA	
		CODE NO.		DRAWN BY	
		APPROVED BY		DATE	
		DSGND (CHKD) BY		MARK	
		SCALE		REVISION	
		M. FGVH-E2K control connection diagram LGVHレベル計制御接続図		DATE	
		FORM		UNIT mm	
		SHIMAZU		TOKITA	
		CODE NO.		DRAWN BY	
		APPROVED BY		DATE	
		DSGND (CHKD) BY		MARK	
		SCALE		REVISION	

【M. EGVH-E2K制御配線要領】

標準図
Standard dwg.

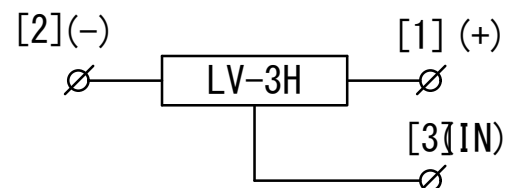
- ・ Perform wiring for connector pin No. wires as follows.
Suction type material collector equipment without secondary damper
- ・ コネクターピンNO. は、下記のように配線します。
二次輸送ダンパー無し吸引式材料捕集装置

E2K control without 1 direction damper
1方向ダンパー無しE2K制御

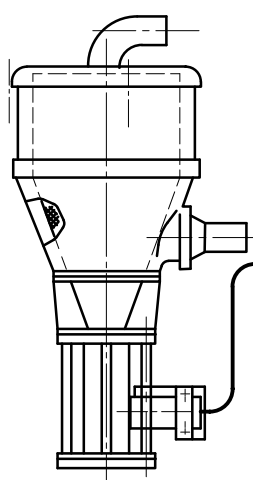


[] 1396-R1 (3P) (制御盤)(Control panel)
() 1396-P1 (3P) (E2K)

2方向ダンパー無しE2K制御
E2K control without 2 direction damper

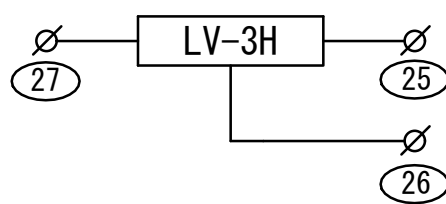
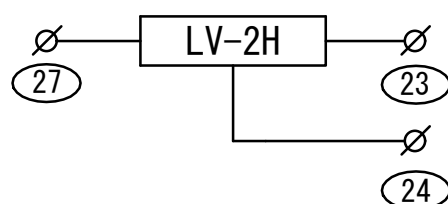


[] 1396-R1 (3P) (制御盤) (Control panel)
() 1396-P1 (3P) (E2K)



Wire NO for wiring
配線用線番

Nylon connector
ナイロンコネクタ



Nylon connector (female)
ナイロンコネクター (メス)

1396-R1 (3P)
カバー Cover
C1396-060

VCTF 0.75sq 3C
コード 制御盤側
Cord control panel side

1 (red) 1(赤)
2 (white) 2(白)
3 (black) 3(黒)

表 Table

Nylon connector (male)
ナイロンコネクター (オン)

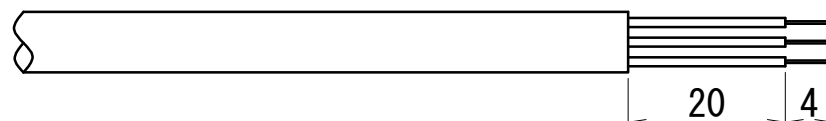
1396-P1 (3P)
カバー Cover
C1396-060

E2K side (3 wires)
- E2K側 (3芯)

○ 1 (茶) 1 (brown)
○ 2 (青) 2 (blue)
○ 3 (黒) 3 (black)

表 Table

- Electric wire treating method
- 電線処理方法



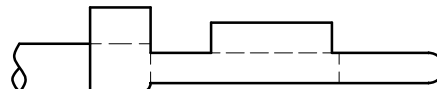
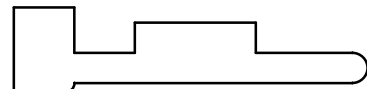
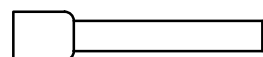
Remove cladding of approx. 24mm at the end of signal line, and expose strand of approx. 4mm on electric wire.
信号線先端は外被服24mm程度皮を剥き、電線の4mm程度素線を露出させる。

- Electric wire crimping method
- 電線圧着方法

Electric wire
電線

Crimp terminal
压着端子

Crimp after inserting electric wire.
電線挿入後圧着



Firmly crimp electric wire and crimp terminal. After crimping, crimp terminal and electric wire should not be drawn out even if they are pulled.

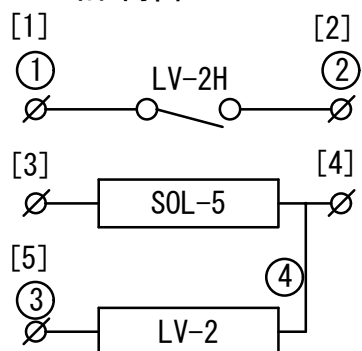
電線と圧着端子は確実に圧着すること。圧着後、圧着端子と電線を引っ張って抜けがないこと。

[illegible]

[ASD level meter control wiring instructions]
【ASDレベル計制御配線要領】

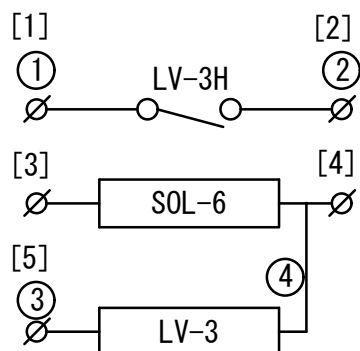
- ・ Perform wiring for connector pin No. wires as follows.
Suction type material collector equipment without secondary damper
- ・ コネクターピンNO. は、下記の様に配線します。
二次輸送スライドダンパー吸引式材料捕集装置

1 direction level meter control
1方向レベル計制御

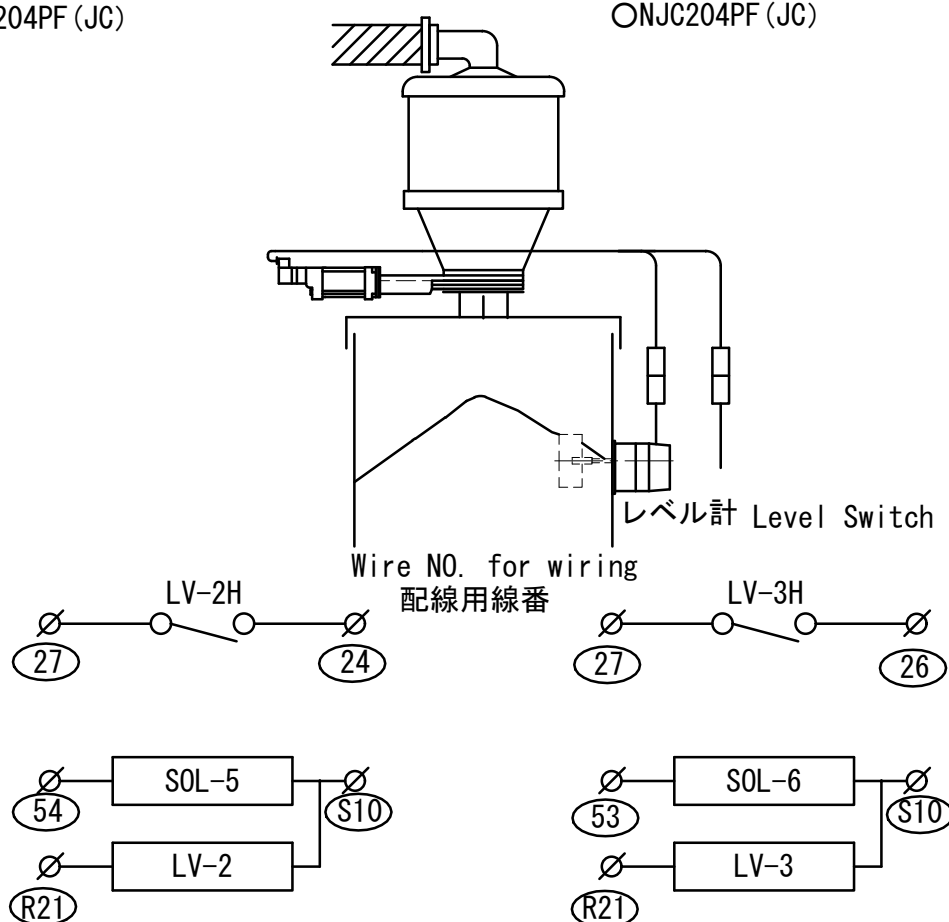


[]NJC205PF (制御) (Control)
[]NJC205ADM (JC)
○NJC204ADM (レベル計) (Level Switch)
○NJC204PF (JC)

2 direction level meter control
2方向レベル計制御



[]NJC205PF (制御) (Control)
[]NJC205ADM (JC)
○NJC204ADM (レベル計) (Level Switch)
○NJC204PF (JC)



Mount to cable connector as follows.
ケーブルコネクターに取付ける場合、下記の様に取付て下さい。

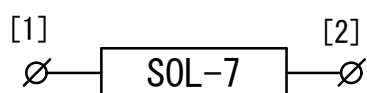
Connector pin NO. コネクターピンNO.		1	2	3	4	5	6	7
Number of cores 芯数	Connector コネクター							
2	NJC-202	Black 黒	White 白					
3	NJC-203	Red 赤	White 白	Black 黒				
4	NJC-204	Red 赤	White 白	Black 黒	Green 緑			
5	NJC-205	Red 赤	White 白	Black 黒	Green 緑	Yellow 黄		

Standard dwg.
標準図

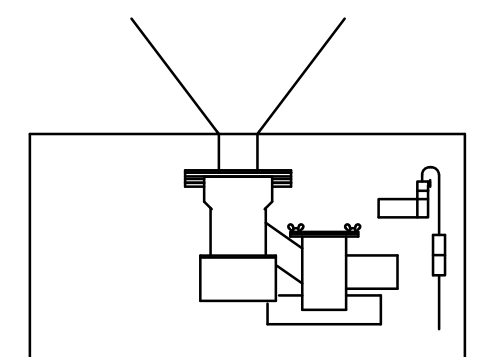
NAME		MGD-***J	DWG. NO.	165862
MATSUI MFG. CO., LTD.				
SCALE		CODE NO.	FORM	DATE
APPROVED BY		SHIMAZU	TOKITA	MAR. /7/2002
DSGND (CHKD) BY		-	-	-
DRAWN BY		-	-	-
APPD		CHKD	CONTENTS	DATE
REVISION		MARK	DATE	DATE

Standard dwg. 標準図

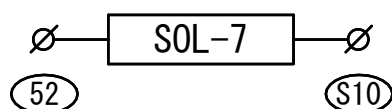
- ## Push type batch discharge damper



[] 1545-P (SOL)
[] 1545-R (制御) (Control)



Wire NO. for wiring
配線用線番



Mount to cable connector as follows.
ケーブルコネクタに取付ける場合、下記の様に取り付けて下さい。

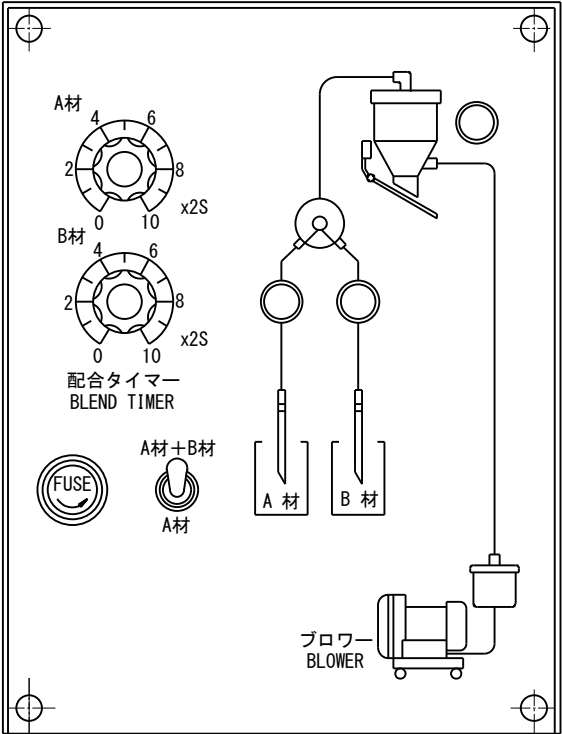
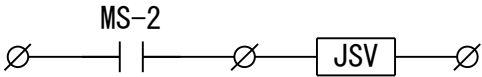
Connector pin NO. コネクタピンNO.		1	2	3	4	5	6	7
Number of cores 芯数	Connector コネクタ							
2	NJC-202	Black 黒	White 白					
3	NJC-203	Red 赤	White 白	Black 黒				
4	NJC-204	Red 赤	White 白	Black 黒	Green 緑			
5	NJC-205	Red 赤	White 白	Black 黒	Green 緑	Yellow 黄		

REVISION	△					SCALE	CODE NO.					
	△					APPROVED BY	SHIMAZU	FORM	Transport source batch damper control connection diagram 輸送元バッチ制御接続図			
	△					DSGND (CHKD) BY	—	TOKITA	DATE	MAR. / 7 / 2002		
	△					DRAWN BY	—	UNIT mm	PLANE TRIGONOMETRY			
	MARK	DATE	CONTENTS	CHKD	APPD							
						NAME		MGD-***J		DWG. NO.		1 6 5 8 6 3
						MATSUI MFG. CO., LTD.						

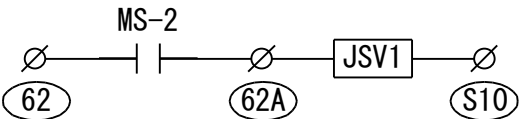
[JSV control wiring instructions]
【JSV制御配線要領】

- Perform wiring for connector pin No. wires as follows.
Primary transport jet selector
- コネクターピンNO. は、下記の様に配線します。
一次輸送ジェットセレクトター

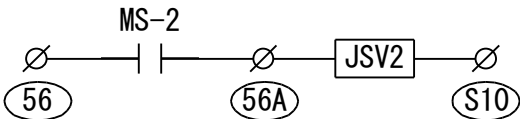
△ JSV transport equipment
JSV輸送装置



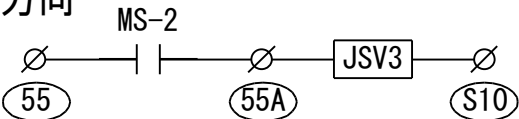
△ 1 Direction
1方向



△ 2 Direction
2方向



△ 3 Direction
3方向



Mount to cable connector as follows.
ケーブルコネクターに取付ける場合、下記の様に取付て下さい。

Connector pin NO. コネクターピンNO.		1	2	3	4	5	6	7
Number of cores 芯数	Connector コネクター							
2	NJC-202	Black 黒	White 白					
3	NJC-203	Red 赤	White 白	Black 黒				
4	NJC-204	Red 赤	White 白	Black 黒	Green 緑			
5	NJC-205	Red 赤	White 白	Black 黒	Green 緑	Yellow 黄		

Standard dwg.
標準図

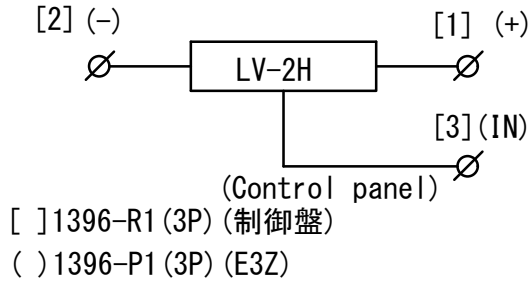
NAME		MGD-***J		DWG. NO.		1 6 5 8 6 4	
CODE NO.		SHIMAZU		TOKITA		—	
APPROVED BY		DSGND (CHKD) BY		DRAWN BY		C. JEONG M. NAKANO	
SCALE		FORM		DATE		UNIT mm	
JSV control connection diagram JSV制御接続図		MAR. / 7 / 2002		PLANE TRIGONOMETRY		—	
REVISION		OCT. / 24 / 2017		MARK		DATE	
ADD 2, 3 direction		CONTENTS		CHKD		APPD	
MATSUI MFG. CO., LTD.		—		—		—	

[APH-E3Z control wiring instructions]
【APH-E3Z制御配線要領】

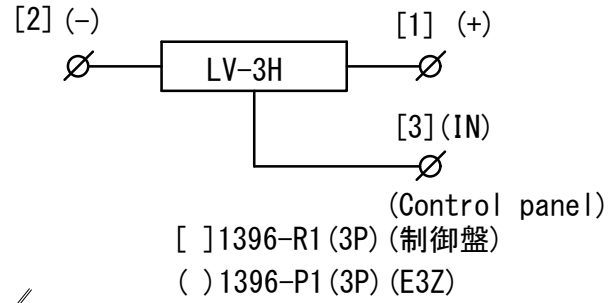
- Perform wiring for connector pin No. wires as follows.
APH material collector equipment without secondary transport damper
- コネクターピンNO. は、下記の様に配線します。
二次輸送ダンパー無しAPH材料捕集装置

Standard dwg.
標準図

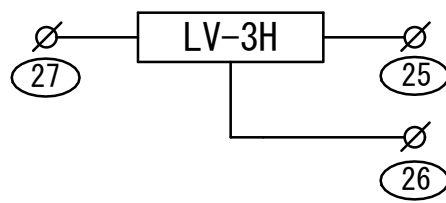
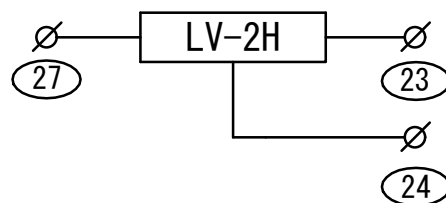
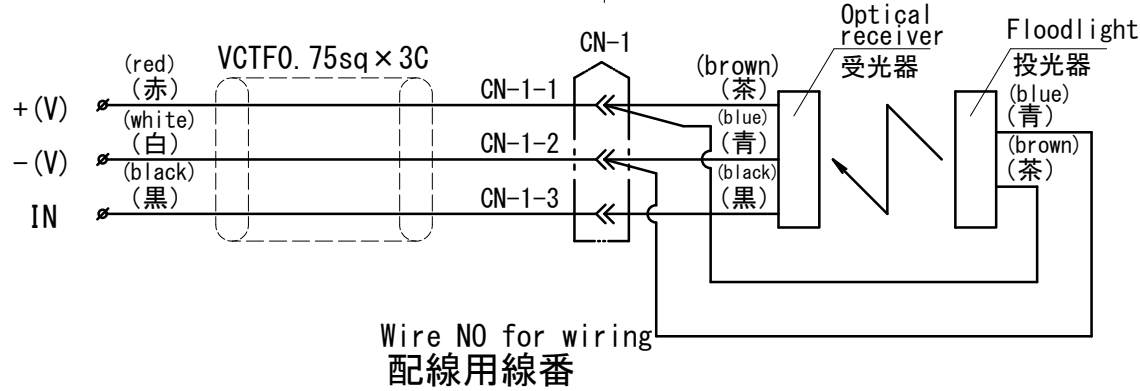
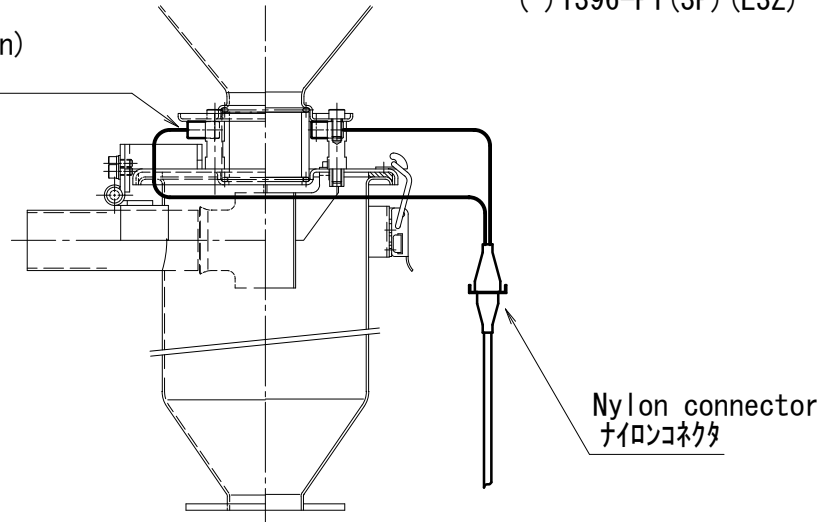
E3Z control without 1 direction damper
1方向ダンパー無しE3Z制御



E3Z control without 2 direction damper
2方向ダンパー無しE3Z制御



Photocell switch (E3Z specification)
光電スイッチ (E3Z仕様)



Nylon connector (female)
ナイロンコネクター (メス)
1396-R1 (3P)

Cover カバー
C1396-060

Nylon connector (male)
ナイロンコネクター (オン)
1396-P1 (3P)

Cover カバー
C1396-060

VCTF 0. 75sq 3C
Cord control panel side
コード 制御盤側

1 (red) 1 (赤)
2 (white) 2 (白)
3 (black) 3 (黒)

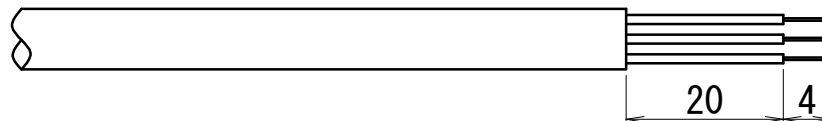
表 Table

1 (茶) 1 (brown)
2 (青) 2 (blue)
3 (黒) 3 (black)

表 Table

Light receiving side (3 wires)
受光側 (3芯)
Floodlight side (2 wires)
投光側 (2芯)

- Electric wire treating method
電線処理方法



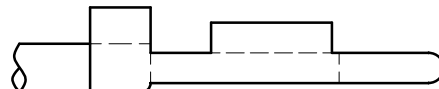
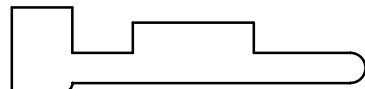
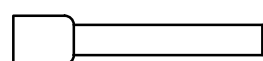
Remove cladding of approx. 24mm at the end of signal line, and expose strand of approx. 4mm on electric wire.
信号線先端は外被服24mm程度皮を剥き、電線の4mm程度素線を露出させる。

- Electric wire crimping method
電線圧着方法

Electric wire
電線

Crimp terminal
圧着端子

Crimp after inserting electric wire.
電線挿入後圧着

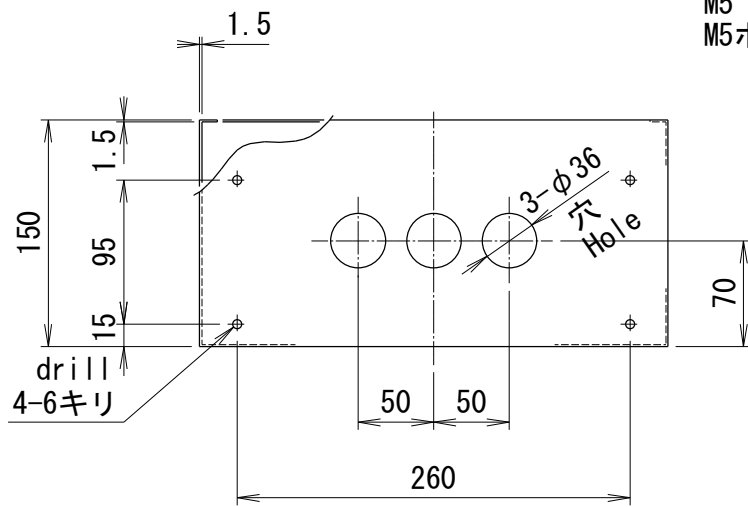
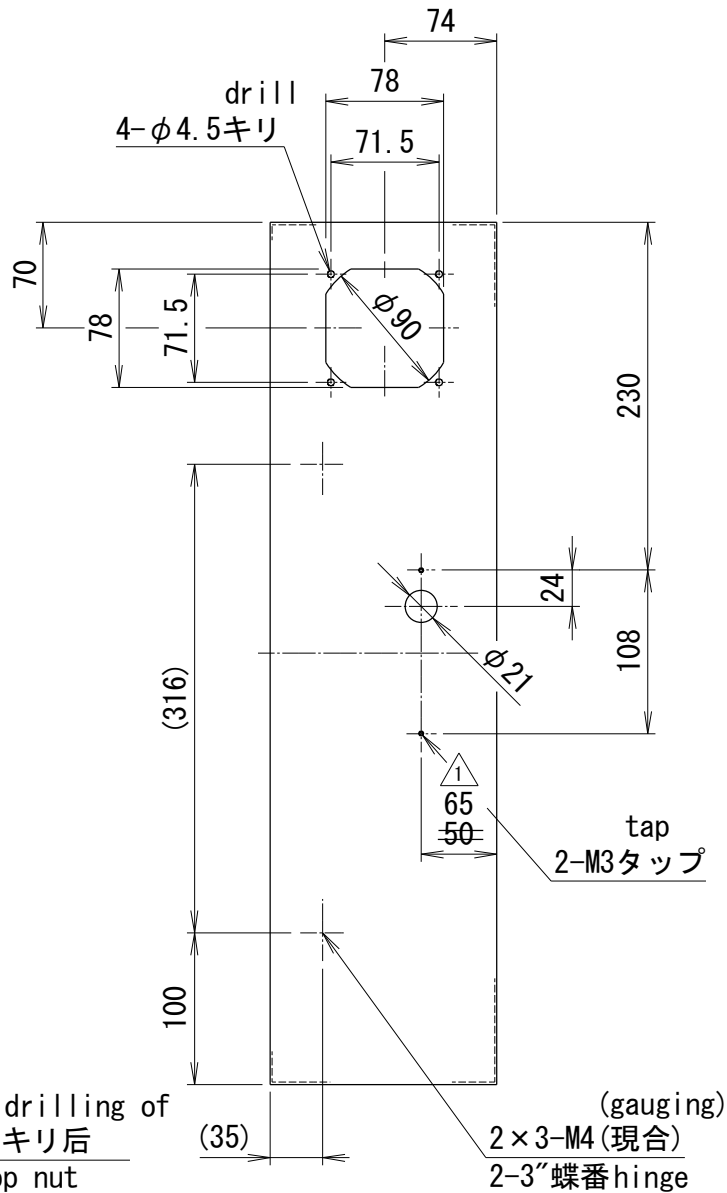
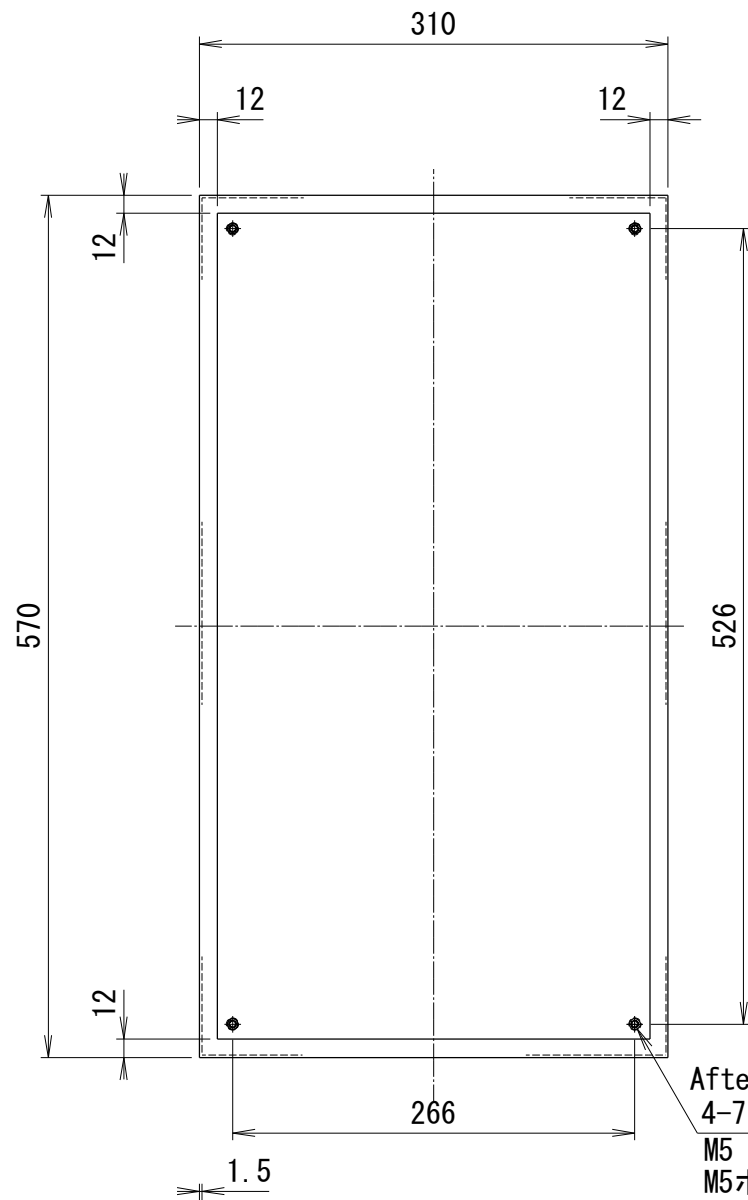
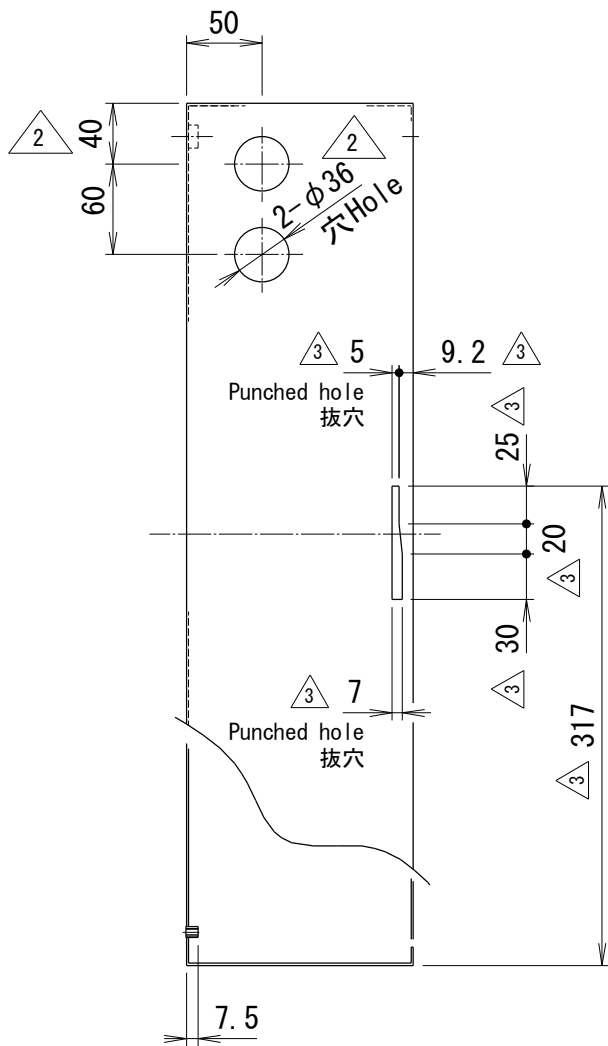


Firmly crimp electric wire and crimp terminal. After crimping, crimp terminal and electric wire should not be drawn out even if they are pulled.
電線と圧着端子は確実に圧着すること。圧着後、圧着端子と電線を引っ張って抜けないこと。

NAME		MGD-***J		DWG. NO.		165865		MATSUI MFG. CO., LTD.	
FORM		DATE		UNIT mm		PLANE		TRIGONOMETRY	
APPH-E3Z control connection diagram		APPH-E3Z制御接続図		MAR. / 7 / 2002		SHIMAZU		TOKITA	
CODE NO.		APPROVED BY		DSGND (CHKD) BY		DRAWN BY		APPD	
SCALE		CONTENTS		DATE		MARK		REVISION	



ITEM NO.	DESCRIPTION	REQ. D	MATERIAL	REFERENCE
	Control box 制御ボックス			t1.5



Note

- A3 of GB standard is equivalent to SS400 of JIS standard.
- Bending working part must be at MIN radius
- Must be free from burrs and flashes
- Fully weld junction and finish flat surface with grinder

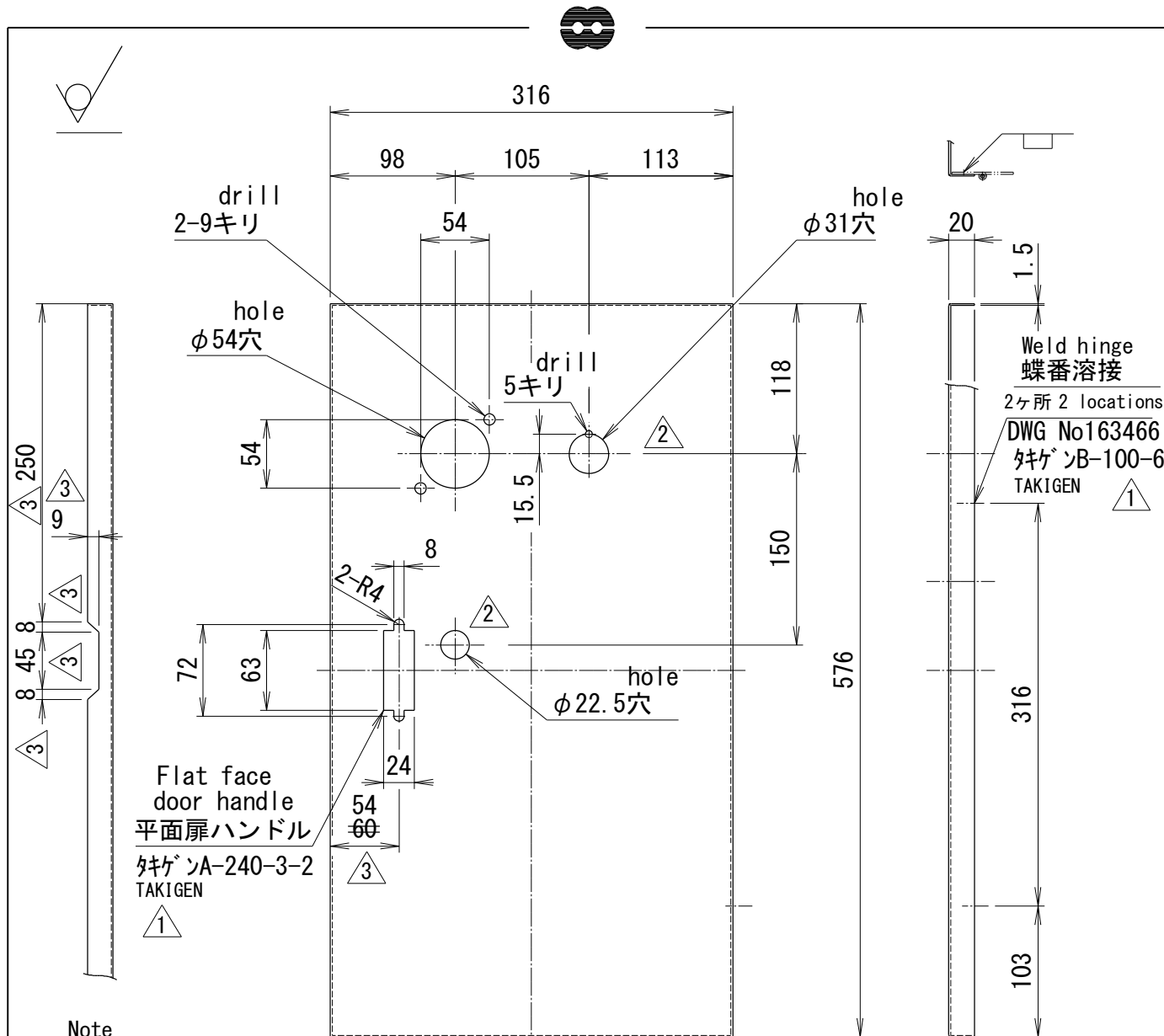
注 記

- GB規格のA3はJIS規格のSS400相当品。
- 曲げ加工部は最小Rとする。
- バリ、カエリ等なきこと。
- 接合部は全溶接としフラット面はG仕上。

Standard dwg.
標準図

REVISION	3	NOV. /13/2019	Punched hole shape changed. 抜き穴形状変更	TAKAHASHI	YONEDA	SCALE	1/5	CODE NO.		
	2	MAR. /31/2009	Processing addition of φ36 holse φ36穴加工追加	NAKANO	OKUDA	APPROVED BY		SHIMAZU	FORM	Sheet metal working drawing (Main body of control panel) 板金図(制御盤本体)
	1	OCT. /16/2002	It is phi21 hole processing position change in order to interfere with Filter BOX. フィルタBOXと干渉する為φ21穴加工位置変更	SHIMIZU	TOKITA	DSGND (CHKD) BY	—	TOKITA	DATE	MAR. /7/2002
	MARK	DATE	CONTENTS	CHKD	APPD	DRAWN BY	—	UNIT mm	PLANE TRIGONOMETRY	

MATSUI MFG. CO., LTD.



Note

1. A3 of GB standard is equivalent to SS400 of JIS standard.
2. Bending working part must be at MIN radius
3. Must be free from burrs and flashes
4. Fully weld junction and finish flat surface with grinder

注記

1. GB規格のA3はJIS規格のSS400相当品。
2. 曲げ加工部は最小Rとする。
3. バリ、カエリ等なきこと。
4. 接合部は全溶接としフラット面はG仕上。

Standard dwg.
標準図

ITEM NO.		DESCRIPTION		REQ. D	MATERIAL	REFERENCE
		Control panel door 制御盤扉			A3	
		NAME		MGD-15~100J		FORM
						(Control panel door) 板金図(制御盤扉)
3	NOV./13/2019 Punched hole position changed. 抜き穴位置変更	YONEDA	APPROVED BY	SHIMAZU	CODE NO.	
		TAKAHASHI	DSGND (CHKD) BY	— TOKITA	DATE	2002. 3. 07
2	JUL./03/2018 Model change (Buzzer) ブザー型式変更	M. NAKANO	DRAWN BY	—	UNIT mm	PLANE TRIGONOMETRY
		C. JEONG			DWG. NO.	1 6 5 8 0 0
1	DEC./10/2002 Postscript of model of steering wheel and hinge ハンドル、蝶番型式記入	SHIMAZU	SCALE	1/5		
		SHIMAZU				
REVISION		APPD CHKD	MATSUI MFG. CO., LTD.			

3 of GB standard is equivalent to SS400 of JIS standard.

① Painting finish

~~Painting is unnecessary, zinc plating chromate treatment~~

Hole drilling by turret punching

Must be free from burrs and flashes

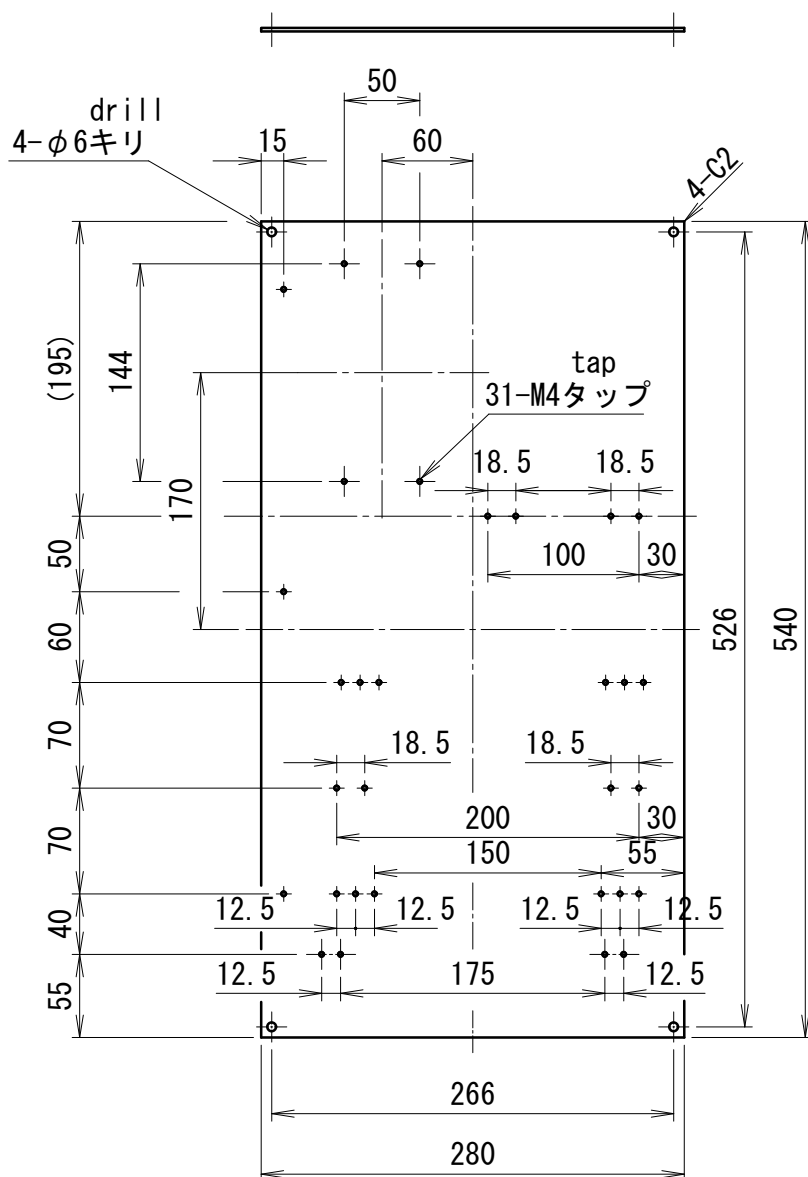
GB規格のA3はJIS規格のSS400相当品

① 塗装仕上げ

~~塗装不要、亜鉛メッキクロメート処理~~

タレットパンチングにて穴加工

バリ、カエリ等なきこと



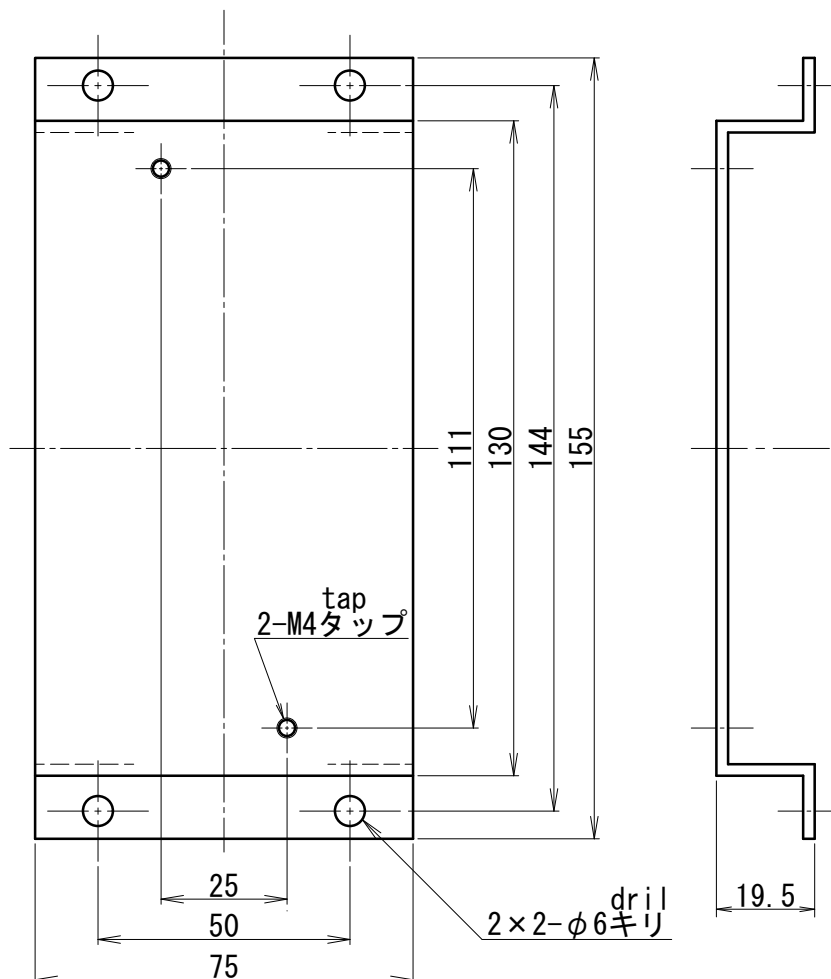
Standard dwg.
標準図

1	Relay plate リレー板	1	SS400	t2.3
ITEM NO.	DESCRIPTION	REQ. D	MATERIAL	REFERENCE
△	NAME	MGD-15~100J		FORM
△	APPROVED BY	SHIMAZU	CODE NO.	Sheet metal working drawing (Relay plate) 板金図 (リレー板)
△	DSGND (CHKD) BY	— TOKITA	DATE	MAR. /7/2002
①	DRAWN BY	—	UNIT mm	PLANE TRIGONOMETRY
	SCALE	1/5	DWG. NO.	1 6 5 8 0 1
REVISION				
MATSUI MFG. CO., LTD.				



Painting finish

~~zinc plating chromate treatment~~
① 塗装仕上げ
~~亜鉛メッキクロメート処理~~



Standard dwg.
標準図

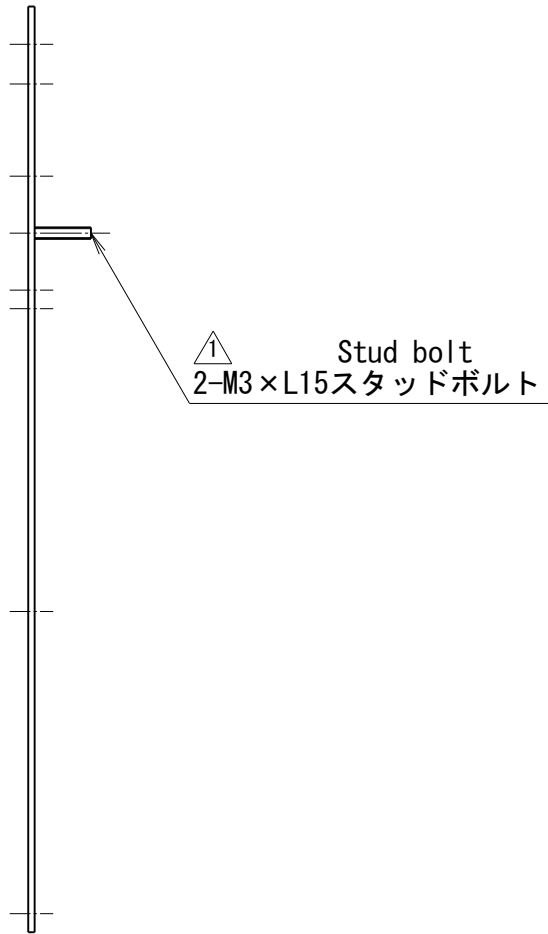
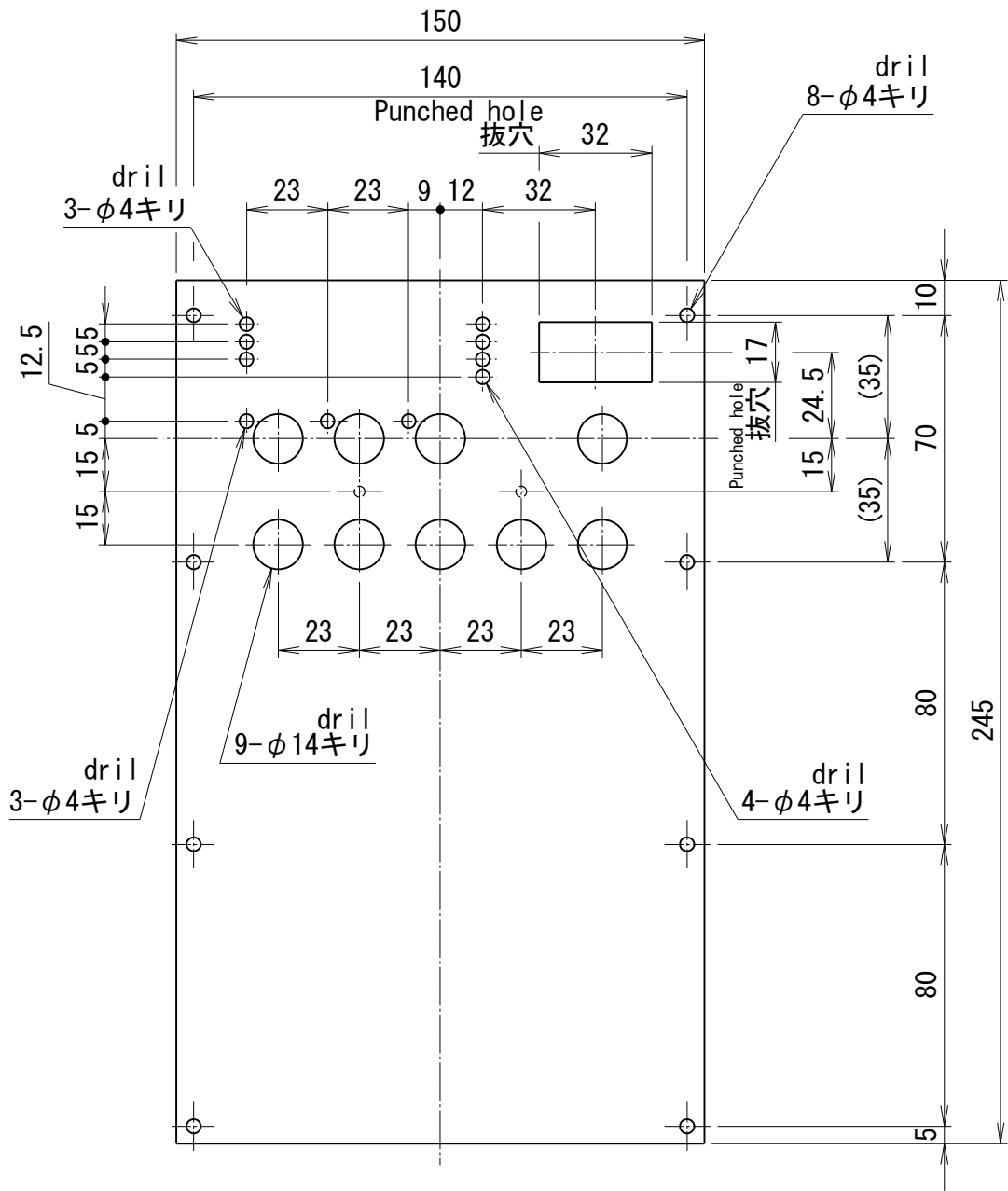
1	Breaker base ブレーカ台	1	SS400	t2.3
ITEM NO.	DESCRIPTION	REQ. D	MATERIAL	REFERENCE

△				NAME	MGD-15~150J		FORM	Sheet metal working drawing (Breaker base) 板金図(ブレーカー台)
△				APPROVED BY	SHIMAZU	CODE NO.		
				DSGND (CHKD) BY	—	TOKITA	DATE	MAR. /7/2002
①	JAN. /20/2009 It changed from the zinc plating to paint. 亜鉛メッキから塗装に変更 TEZUKA	ISHII	—	DRAWN BY	—	UNIT mm	PLANE TRIGONOMETRY	
				SCALE	1/1.5	DWG. NO.	1 6 5 8 0 2	
REVISION		APPD	MATSUI MFG. CO., LTD.					
		CHKD						



ITEM NO.	DESCRIPTION	REQ. D	MATERIAL	REFERENCE
	Operation panel	1	SS400	t1.6 (1.5)
	操作パネル			

Manufacturing specifications
Hole drilling by turret punching
② Painting finish
~~Painting is unnecessary, zinc-plating chromate treatment~~
製作仕様
タレットパンチングにて穴加工
② 塗装仕上げ
~~塗装不要, 亜鉛メッキクロメート処理~~



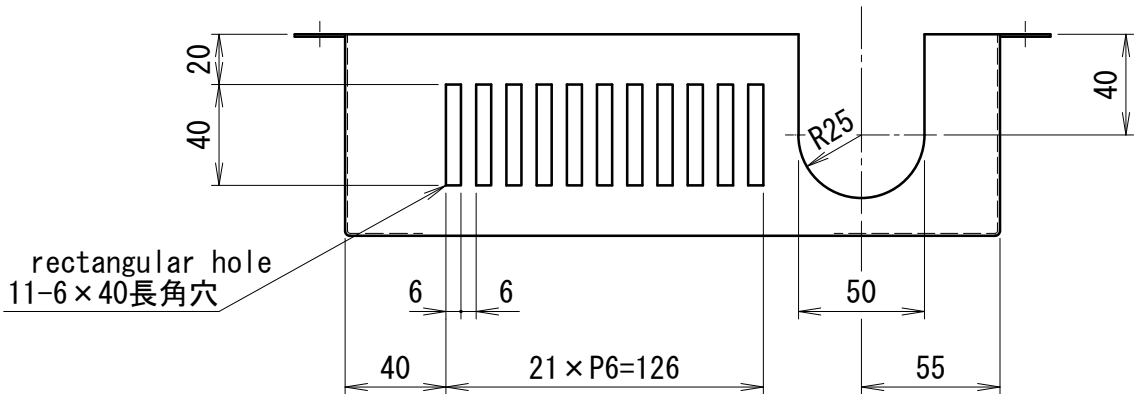
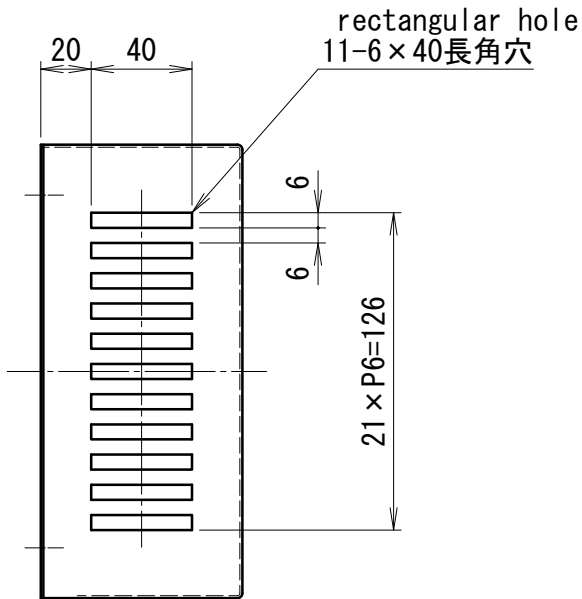
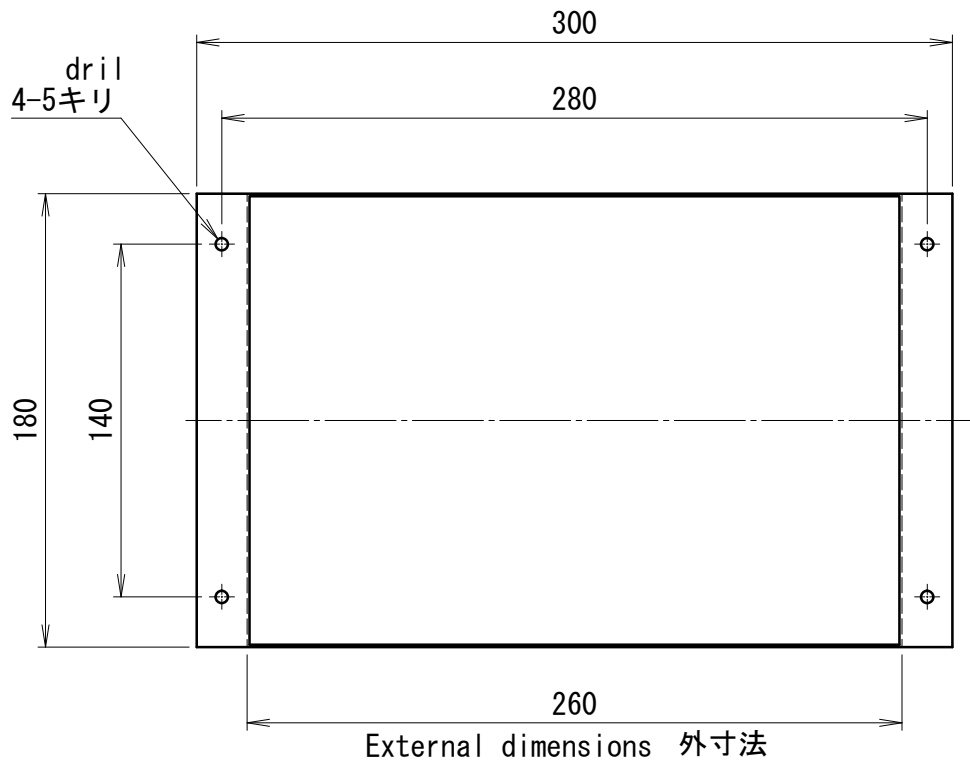
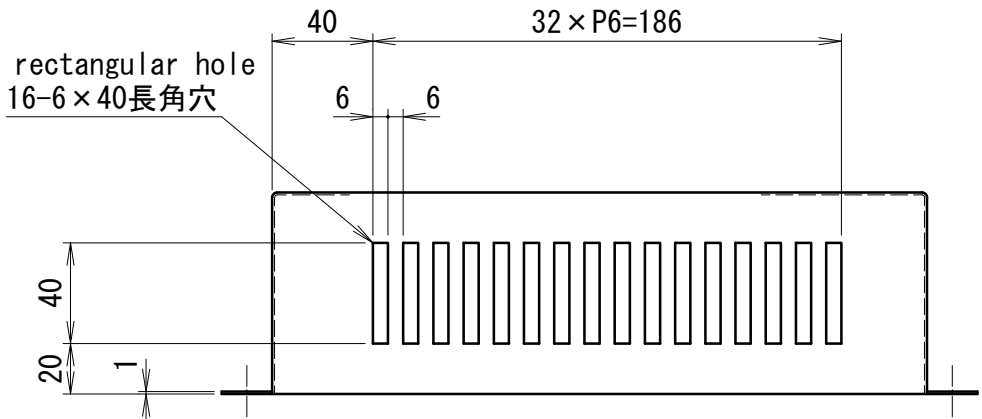
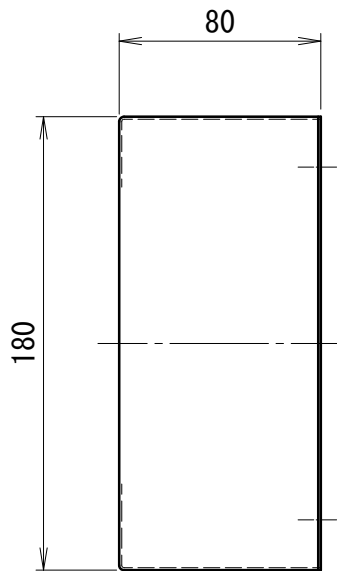
Standard dwg.
標準図

REVISION							SCALE	1/2	CODE NO.								
							APPROVED BY		SHIMAZU		FORM	Sheet metal working drawing (substrate mounting plate) 板金図 (基板取付板)					
		JAN. /20/2009	It changed from the zinc plating to paint. 亜鉛メッキから塗装に変更	TEZUKA	—	ISHII	DSGND (CHKD) BY		—	TOKITA	DATE	MAR. /7/2002		NAME	MGD-15~300J	DWG. NO.	1 6 5 8 0 3
		MAY/19/2003	Error correction 誤記訂正	SENOO	TOKITA	SHIMAZU	DRAWN BY		—		UNIT mm	PLANE TRIGONOMETRY		MATSUI MFG. CO., LTD.			
	MARK	DATE	CONTENTS			CHKD	APPD										



ITEM NO.	DESCRIPTION	REQ. D	MATERIAL	REFERENCE
	Protective cover		A3	
	保護カバー			

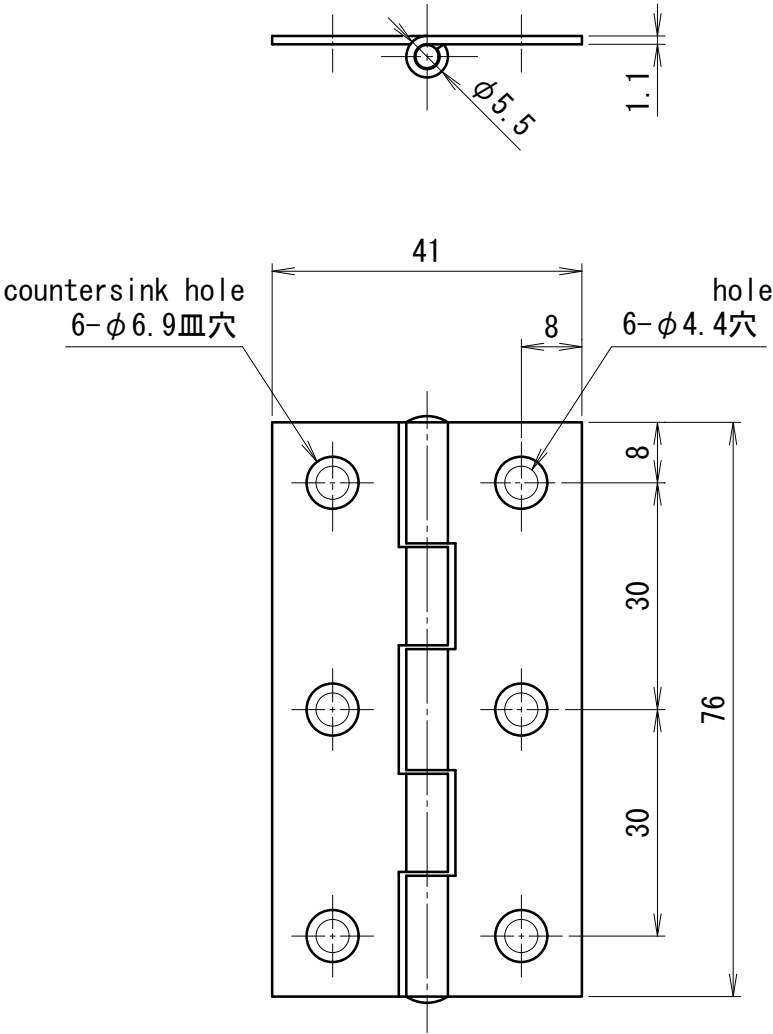
- NOTE
- 1.A3 of GB standard is equivalent to SS400 of JIS standard.
 - 2.Bending working part must be at MIN radius
 - 3.Must be free from burrs and flashes
 - 4.Fully weld junction and finish flat surface with grinder
 - ① Painting finish
 - ~~5.Painting is unnecessary, zinc-plating chromate treatment~~



- 注 記
- 1. GB規格のA3はJIS規格のSS400相当品。
 - 2. 曲げ加工部は最小Rとする。
 - 3. バリ、カエリ等なきこと。
 - 4. 接合部は全溶接としフラット面はG仕上。
 - ① 塗装仕上げ
 - ~~5. 塗装不要, 亜鉛メッキクロメート処理~~

Standard dwg.
標準図

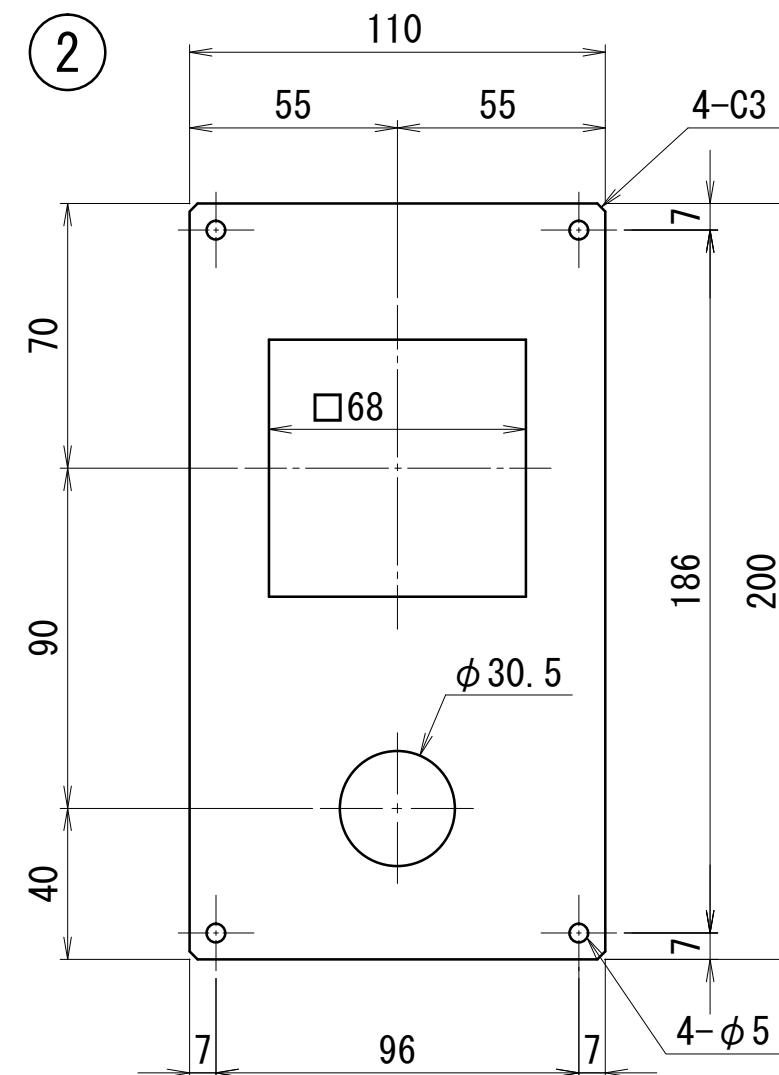
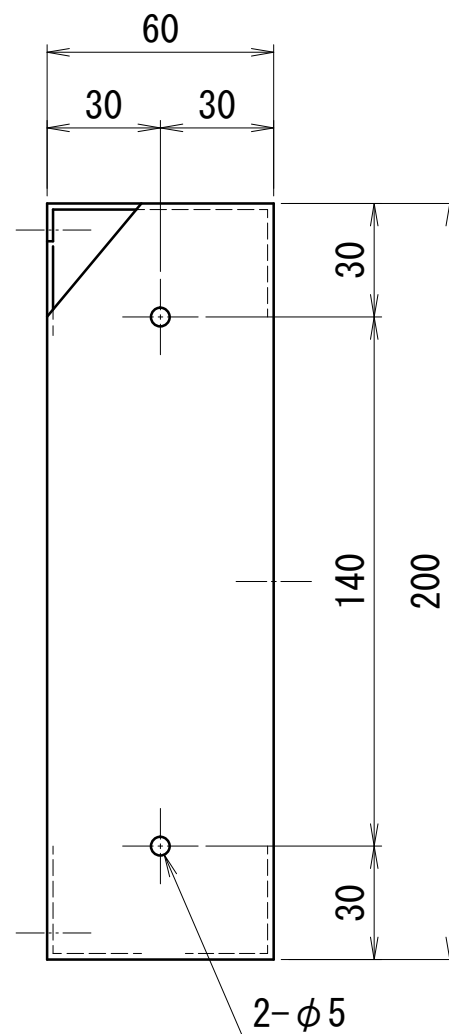
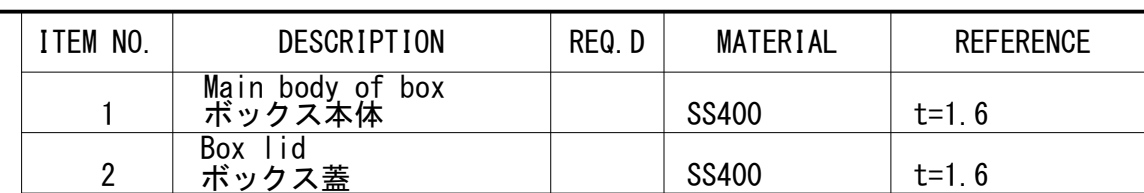
REVISION	△					SCALE	1/3	CODE NO.	700201				
	△					APPROVED BY		HONNDA	FORM	Protective cover sheet metal working drawing 保護カバー板金図			
	△					DSGND (CHKD) BY		-	00NO	DATE	2001. 12. 13	NAME	MGD-15J~300J
	1	JAN. /20/2009	It changed from the zinc plating to paint. 亜鉛メッキから塗装に変更	TEZUKA	-	ISHII		OGAWA	UNIT mm	PLANE TRIGONOMETRY		DWG. NO.	1 6 2 9 4 1
	MARK	DATE	CONTENTS	CHKD	APPD	DRAWN BY		OGAWA	UNIT mm	PLANE TRIGONOMETRY	MATSUI MFG. CO., LTD.		



Standard dwg.
標準図

	Flat type hinge (SPCC)	1	TAKIGEN	B-100-6
	平型蝶番 (SPCC)		タキゲン	
ITEM NO.	DESCRIPTION	REQ. D	MATERIAL	REFERENCE

△			NAME	MGD-15J~150J		FORM	Hinge for control panel door 制御盤扉用蝶番	
△			APPROVED BY	HONDA		CODE NO.	700201	
△			DSGND (CHKD) BY	-	00NO	DATE	DEC. /18/2001	
△			DRAWN BY	SAKASHITA		UNIT mm	PLANE TRIGONOMETRY	
△ 2	DEC. /10/2002 Hinge model postscript 蝶番型式記入	SHIMAZU —	SCALE	1/1		DWG. NO.	1 6 3 4 6 6	
REVISION		APPD CHKD	MATSUI MFG. CO., LTD.					



Standard dwg.
標準図

REVISION						SCALE	1/2	CODE NO.								
						APPROVED BY		TOKITA		FORM	Calendar timer BOX metal working drawing 板金図 カレンダータイマBOX		NAME		DWG. NO.	1 6 8 3 6 8
						DSGND (CHKD) BY		—	SHIRAISHI	DATE	MAY. /8/2002					
						DRAWN BY		—		UNIT mm	PLANE TRIGONOMETRY		MATSUI MFG. CO., LTD.			
	MARK	DATE	CONTENTS			CHKD	APPD									

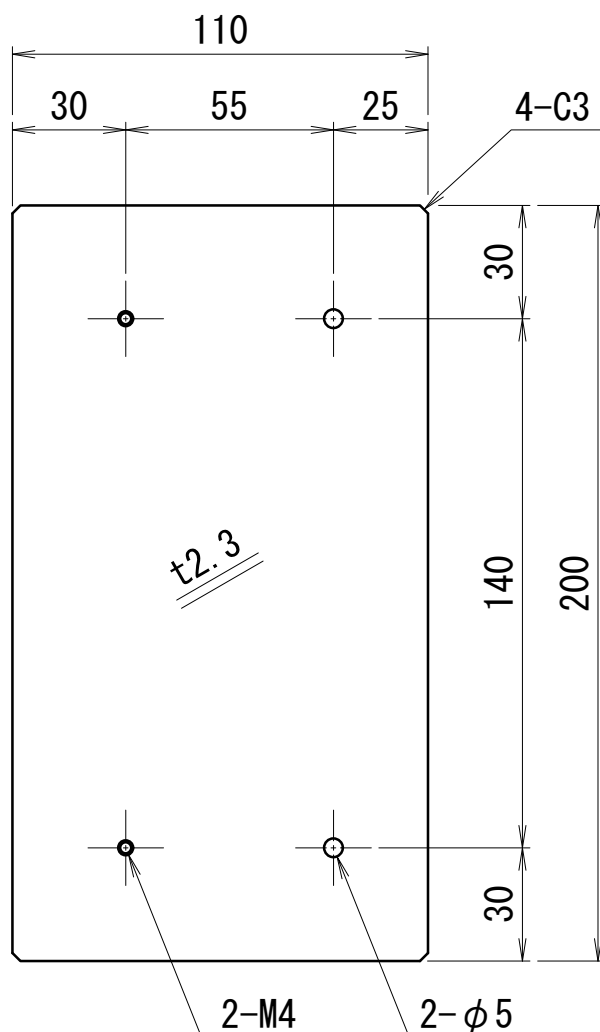
1

2

3

4

5



Standard dwg.
標準図

	Calendar timer BOX bracket カレンダータイマBOXブラケット		SS400	t2.3
ITEM NO.	DESCRIPTION	REQ. D	MATERIAL	REFERENCE

△			NAME		MGD-***J/E			
△			APPROVED BY	TOKITA		CODE NO.		
			DSGND (CHKD) BY	—	SHIRAIISHI	DATE	JUN. /11/2002	
△			DRAWN BY	—		UNIT mm	PLANE TRIGONOMETRY	
△			SCALE	1/1		DWG. NO.	1 6 8 9 5 2	
REVISION		APPD	MATSUI MFG. CO., LTD.					
		CHKD						



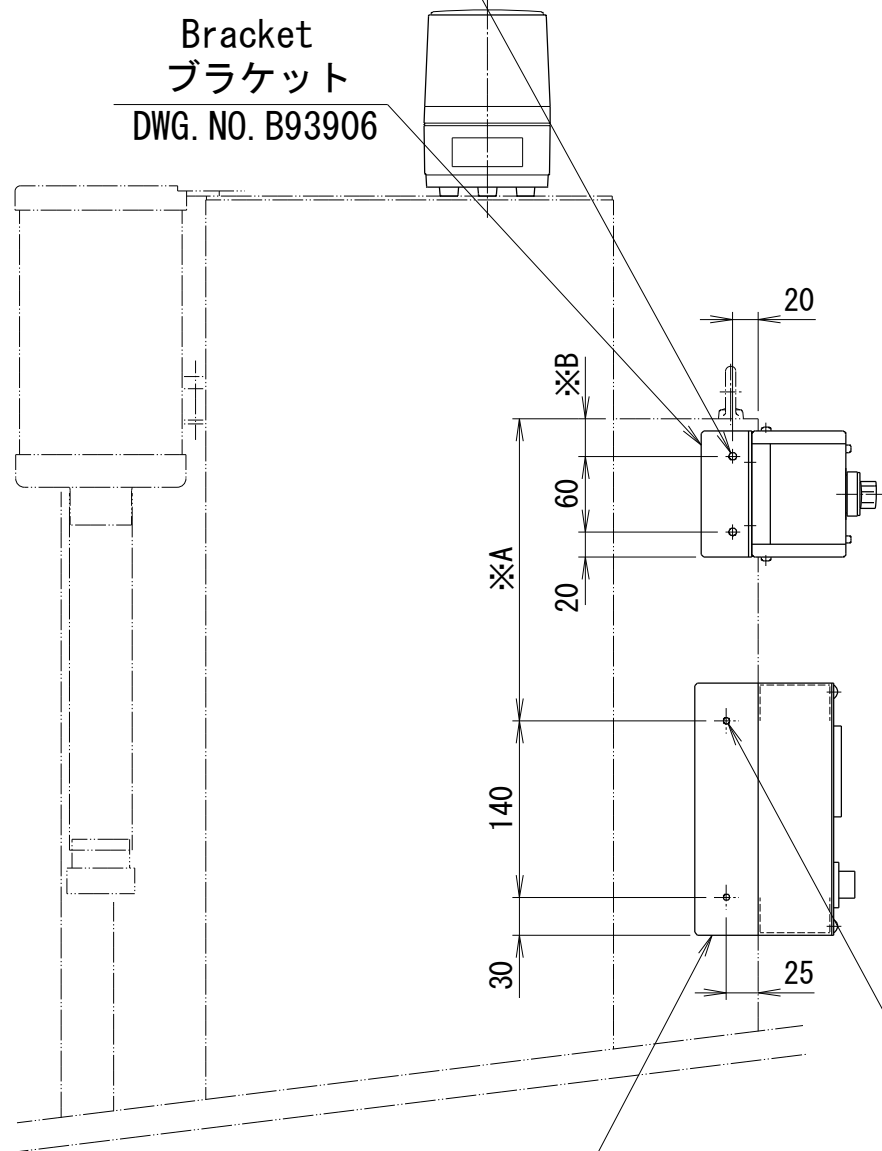
ITEM NO.	DESCRIPTION	REQ. D	MATERIAL	REFERENCE

注記参照

Frame
フレーム 2-M5
External plate
外装板 2-φ7

* Drilling by gauging
※現合穴加工

Bracket
ブラケット
DWG. NO. B93906



Bracket
ブラケット
DWG. NO. 168952

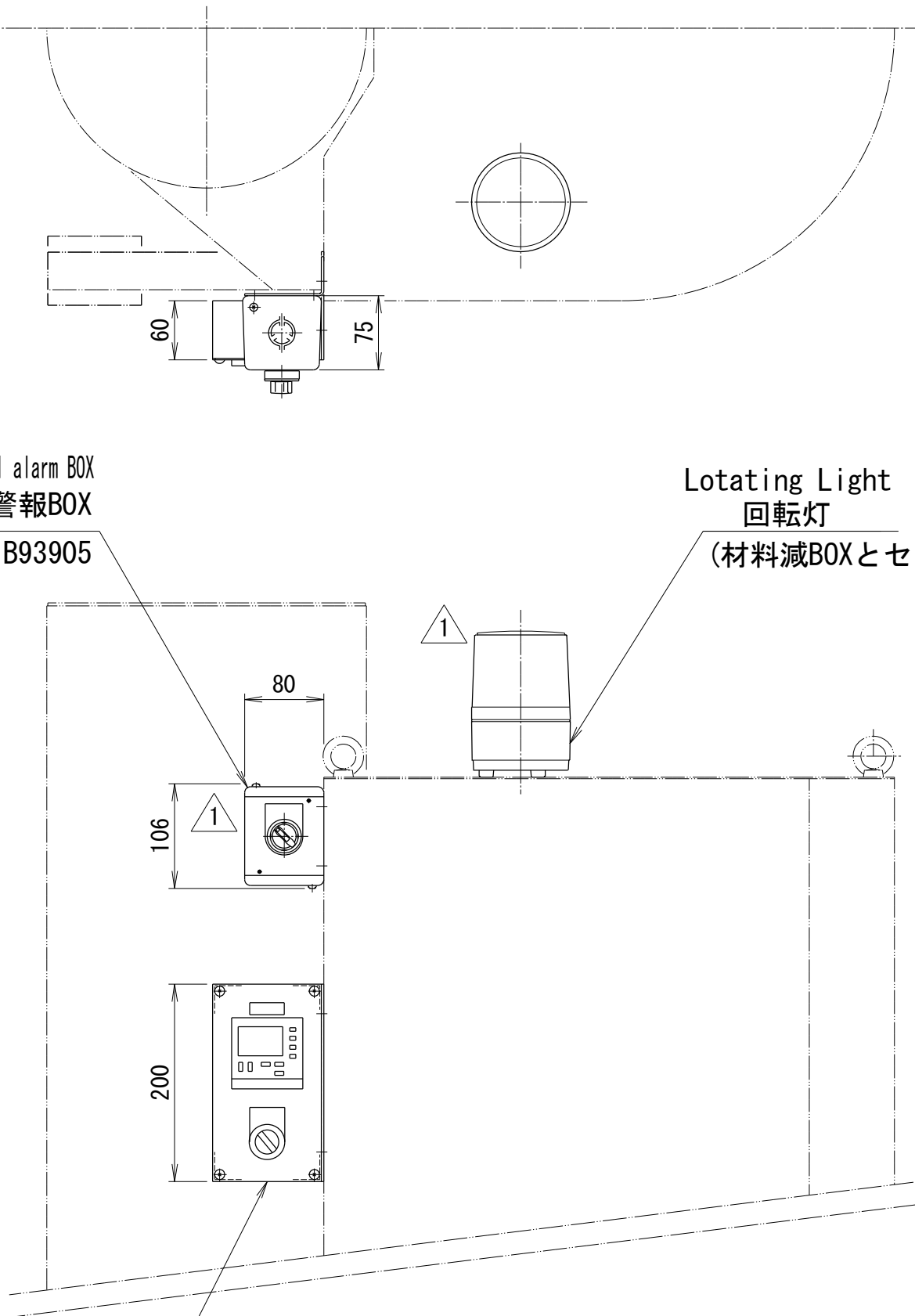
Frame
フレーム 2-M4
External plate
外装板 2-φ6
* Drilling by gauging
※現合穴加工

Model 型式	* Portion A dimensional values (mm) ※A部寸法値 (mm)	* Portion B dimensional values (mm) ※B部寸法値 (mm)
MGD-15	△2 145	30
MGD-25	240	
MGD-50	△2 145	30
MGD-75	240	
△3 △2 MGD-100	450 525	85 240
△3 △2 MGD-150	450 525	85 240
△3 MGD-200	450 525	295
MGD-250		
△3 MGD-300	630 700	515

Low material alarm BOX
材料減警報BOX
DWG. NO. B93905

Lotating Light
回転灯
(材料減BOXとセットで使用)

Calendar timer BOX
カレンダータイマBOX
DWG. NO. 168367



注記

1. 一部外装板取付け穴を流用。
(MGD-15, 25, 50, 75)

Standard dwg.
標準図

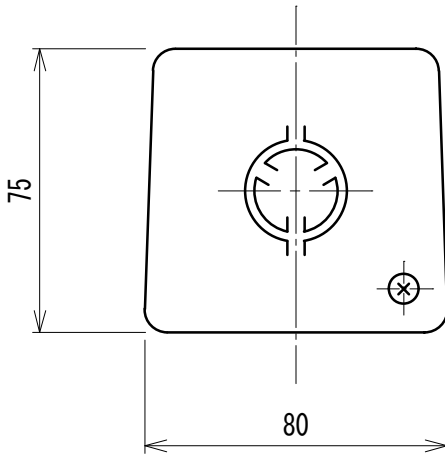
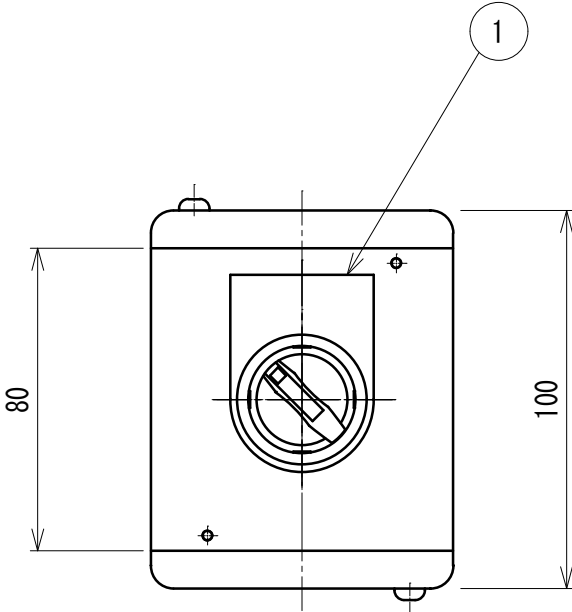
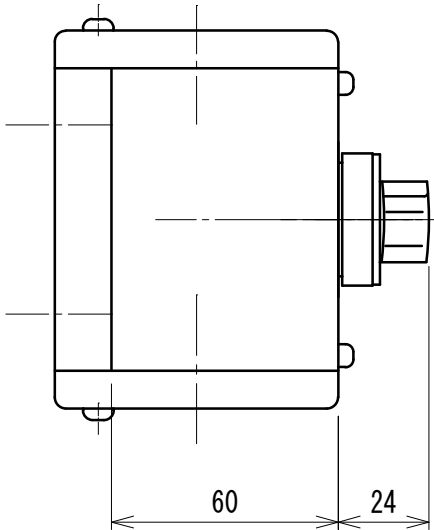
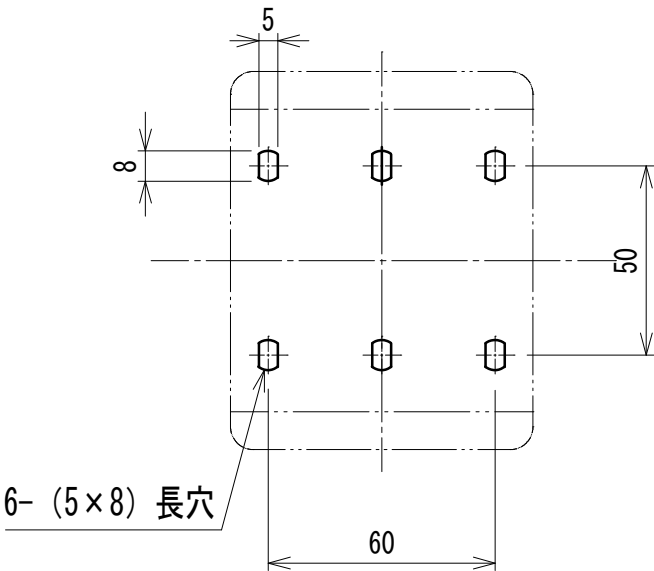
REVISION	△				
	△3	Mar./07/2018	A dimension review A寸法見直し	M. Ogawa	— SAKASHITA
	△2	Dec./07/2015	A and B dimension review AおよびB寸法見直し		OISHI NAKAMURA
	△1	Apr./08/2015	Addition of Low material alarm BOX 材料減警報BOXの追加	K. SHIMIZU	M. NAKANO
	MARK	DATE	CONTENTS	CHKD	APPD

NAME		MGD-***J/E		FORM		Calendar timer BOX mounting view カレンダータイマBOX取付図	
APPROVED BY		TOKITA		CODE NO.			
DSGND (CHKD) BY		SHIRAIISHI —		DATE		JUN./11/2002	
DRAWN BY		—		UNIT mm		PLANE TRIGONOMETRY	
SCALE		1/6		DWG. NO.		1 6 8 9 5 3	

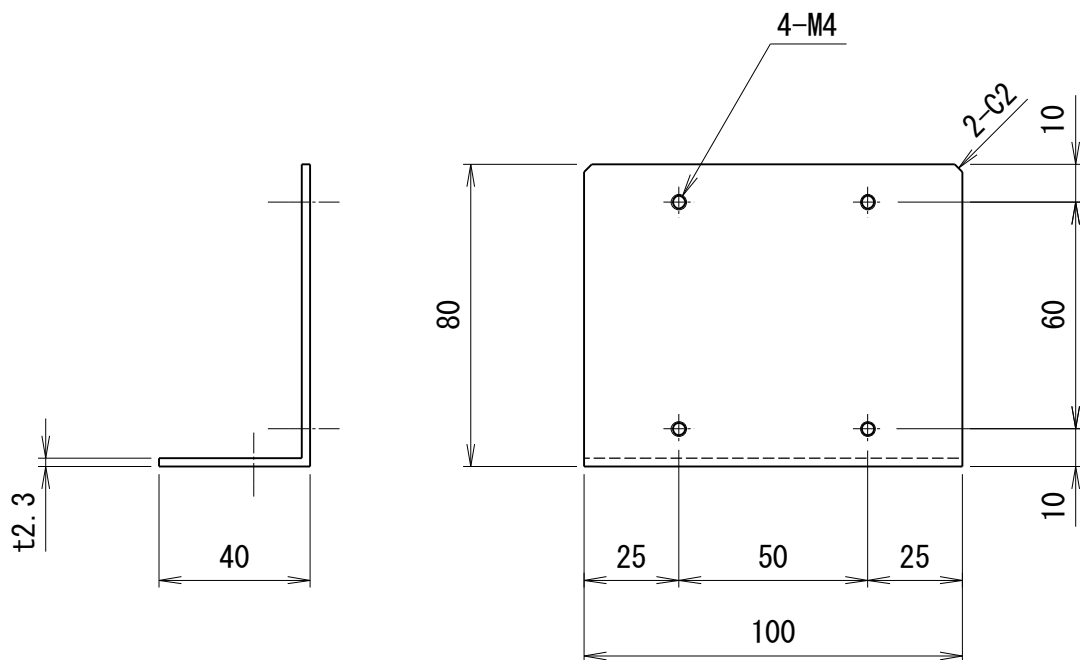
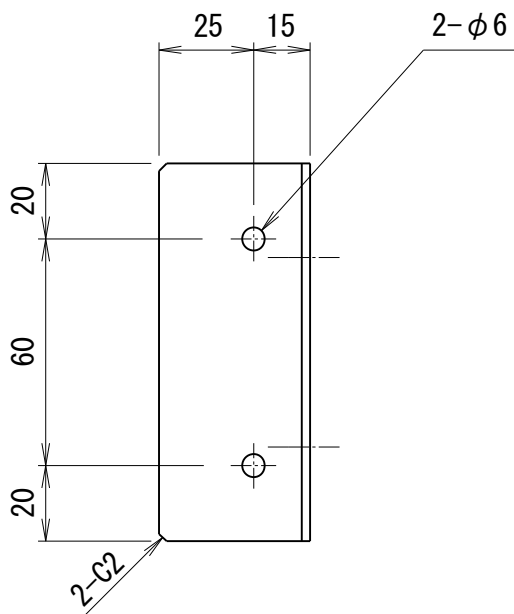
MATSUI MFG. CO., LTD.



ITEM NO.		DESCRIPTION	REQ. D	MATERIAL	REFERENCE
1	S-2	Material low Off-On switch 材料減 切-入 スイッチ	1	Fuji Electric 富士電機	AR30PR-211B
		CONTROL BOX コントロールボックス	1	FUJII ELEC 富士電機	AHX901A



REVISION						SCALE	1/2	CODE NO.						
						APPROVED BY		M. NAKANO	FORM	SWITCH BOX スイッチボックス				
						DSGND (CHKD) BY		— K. SHIMIZU	DATE	2015/4/8	NAME		DWG. NO.	B 9 3 9 0 5
	MARK	DATE	CONTENTS	CHKD	APPD	DRAWN BY		Y. IWSAKI	UNIT mm	PLANE TRIGONOMETRY	MATSUI MFG. CO., LTD.			
		1					2		3					5



1	ブラケット	1	SS400	t2.3
ITEM NO.	DESCRIPTION	REQ. D	MATERIAL	REFERENCE

△			NAME		FORM	
△			APPROVED BY	NAKANO	CODE NO.	
△			DSGND (CHKD) BY	— SHIMIZU	DATE	APR/7/2015
△			DRAWN BY	IWASAKI	UNIT mm	PLANE TRIGONOMETRY
△			SCALE	1/2	DWG. NO.	B 9 3 9 0 6
REVISION		APPD CHKD	MATSUI MFG. CO., LTD.			