◎Addition of VR MASK (CHANNEL BOARD) (for details, see Fig. C.)
Added parts: PA-200: VR MASK B (PNo.22245576)
VR MASK C (PNo.22245577)
PA-400: VR MASK B (PNo.22245576)
VR MASK C (PNo.22245577)
VR MASK D (PNo.22245578)
EFF. SNo. : SNo.ZD11900-up (PA-200)
SNo.ZC62850-up (PA-400)
Reason : To prevent the variable resistor from becoming loose.
Application to servicing
: If you have received a claim, insert the VR Mask between the variable resistor and knob.

◎Addition of VR MASK (MASTER BOARD) (for details, see Fig. D.)
Added parts: VR MASK A (PNo.22245563)
EFF. SNo. : SNo.ZD11900-up (PA-200)
SNo.ZC62850-up (PA-400)
Reason : To prevent the variable resistor from becoming loose.
Application to servicing
: If you have received a claim, insert the VR Mask between the variable resistor and knob.

◎Addition of FADER MASK (for details, see Fig. E.)
Added parts: PA-200: FADER MASK (PNo.22245214)
PA-400: FADER MASK (PNo.22245215)
EFF. SNo. : SNo.ZD11900-up (PA-200)
SNo.ZC62850-up (PA-400)
Reason : To prevent the Fader from becoming loose.
Application to servicing
: If you have received a claim, install the Fader Mask.

◎Change in installation of voltage regulator (for details, see Fig. F.)
Parts modification: Change in Trans Shield shape
PA-200:
PNo.******** ===〉 PNo.22255301
PA-400:
PNo.******** ===〉 PNo.22255295
Added parts: VRGL HOLDER (PNo.22205654)
EFF. SNo. : SNo.ZD11950-up (PA-200)
SNo.ZC73000-up (PA-400)
Reason : To improve workability.
Application to servicing
: If the old type Trans Shield specified in your purchase order is out of stock, we will send a new type Trans Shield, Please install the new type.
Caution: The VRGL Holder (PNo. 22205654) is required to change the old type Trans Shield into the new type. Please order this part separately.

◎VR MASKの追加（CHANNEL BOARD）（詳しくは，Fig. C参照）
部品追加：PA-200：VR MASK B (PNo.22245576)
VR MASK C (PNo.22245577)
PA-400：VR MASK B (PNo.22245576)
VR MASK C (PNo.22245577)
VR MASK D (PNo.22245578)
実施製番：SNo.ZD11900 以降（PA-200）
SNo.ZC62850 以降（PA-400）
理由 ：ボリュームのグラツキを防ぐため。
サービスの対応
：クレームがあった場合，VR MASKをボリュームとツマミの間に挿入して下さい。

◎VR MASKの追加（MASTER BOARD）（詳しくは，Fig. D参照）
部品追加：VR MASK A (PNo.22245563)
実施製番：SNo.ZD11900 以降（PA-200）
SNo.ZC62850 以降（PA-400）
理由 ：ボリュームのグラツキを防ぐため。
サービスの対応
：クレームがあった場合，VR MASKをボリュームとツマミの間に挿入して下さい。

◎FADER MASKの追加（詳しくは，Fig. E参照）
部品追加：PA-200：FADER MASK (PNo.22245214)
PA-400：FADER MASK (PNo.22245215)
実施製番：SNo.ZD11900 以降（PA-200）
SNo.ZC62850 以降（PA-400）
理由 ：フェーダーのグラツキを防ぐため。
サービスの対応
：クレームがあった場合，FADER MASKを取り付けて下さい。

◎三端子レギュレーターの取付方法変更（詳しくは，Fig. F参照）
部品変更：TRANS SHIELDの形状変更
PA-200:
PNo.******** ===〉 PNo.22255301
PA-400:
PNo.******** ===〉 PNo.22255295
部品追加：VRGL HOLDER (PNo.22205654)
実施製番：SNo.ZD11950 以降（PA-200）
SNo.ZC73000 以降（PA-400）
理由 ：作業性改善のため。
サービスの対応
：旧タイプのTRANS SHIELDをオーダーされても，当社に在庫が無い場合は新タイプのTRANS SHIELDを送りますので新タイプのTRANS SHIELDを取り付けて下さい。
注意：TRANS SHIELDを旧タイプから新タイプに交換する際は，VRGL HOLDER (PNo.22205654)が必要ですので，別途オーダーして下さい。

Fig. C

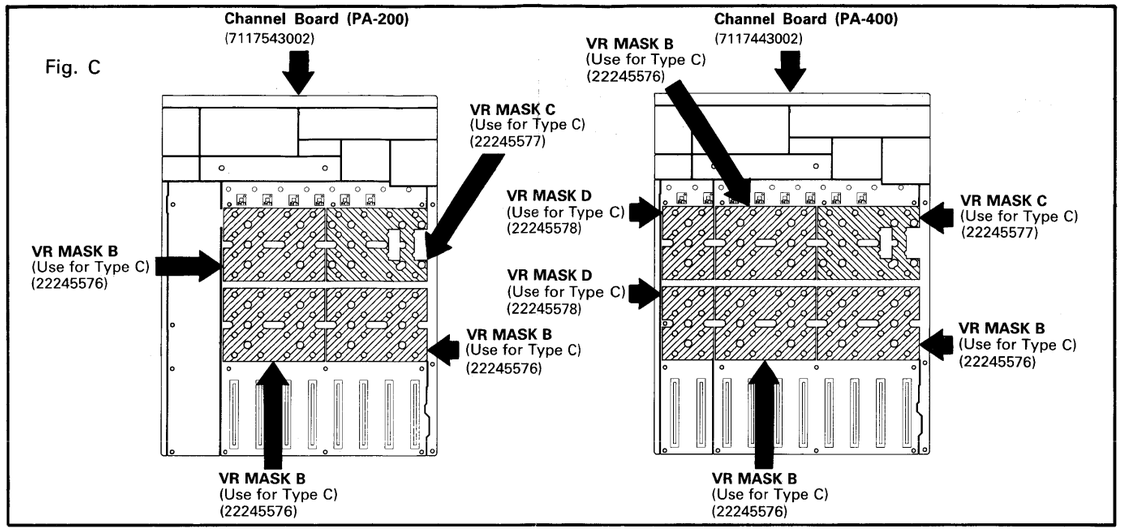


Fig. D

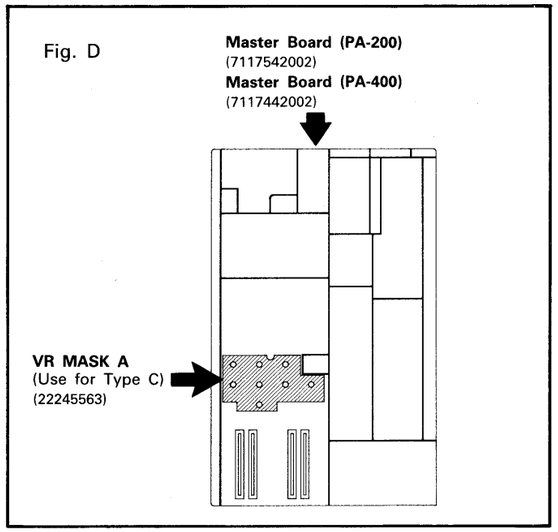


Fig. E

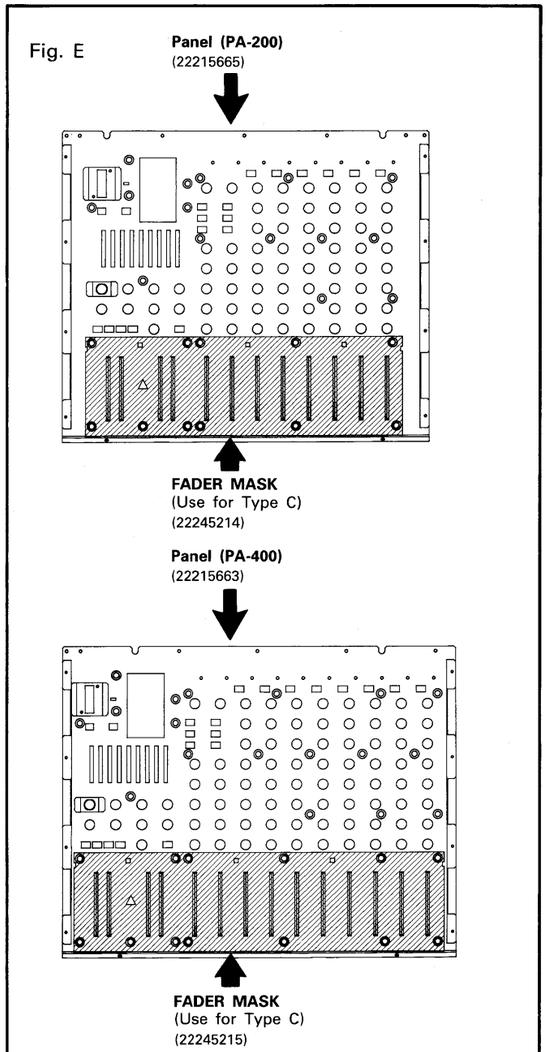
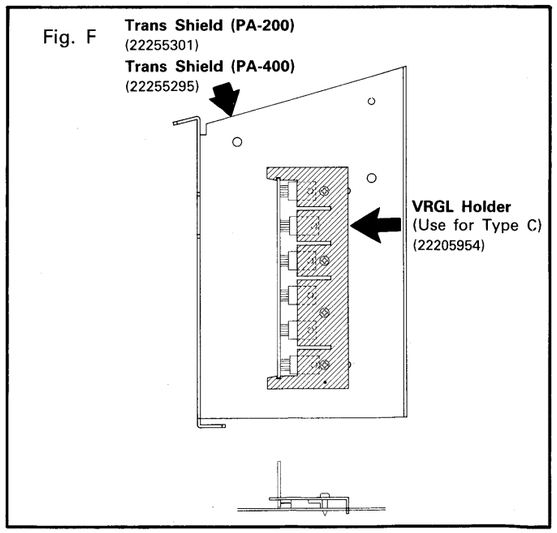
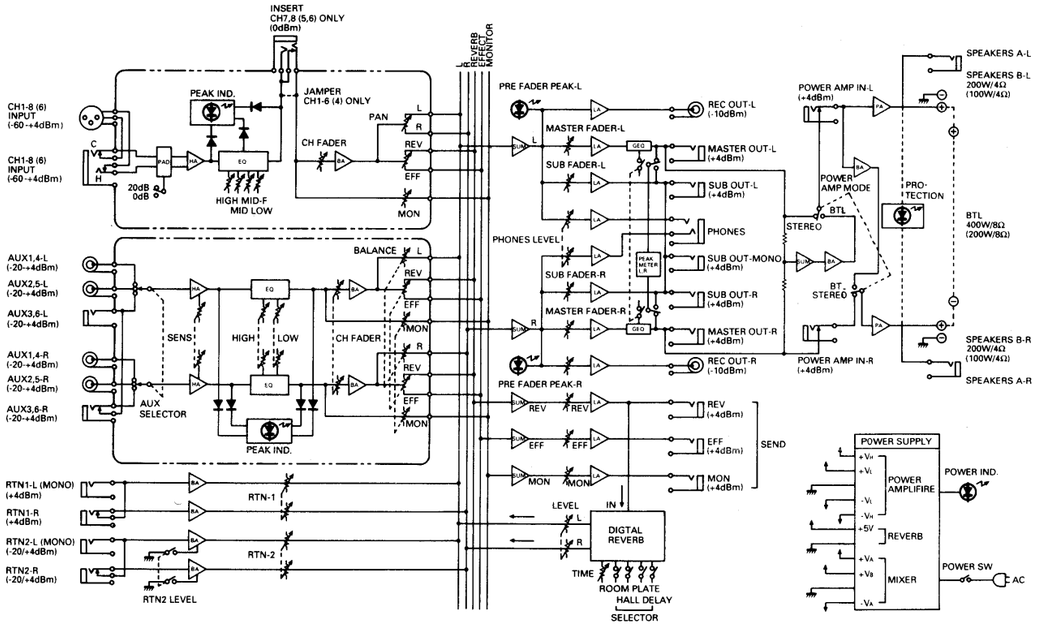


Fig. F

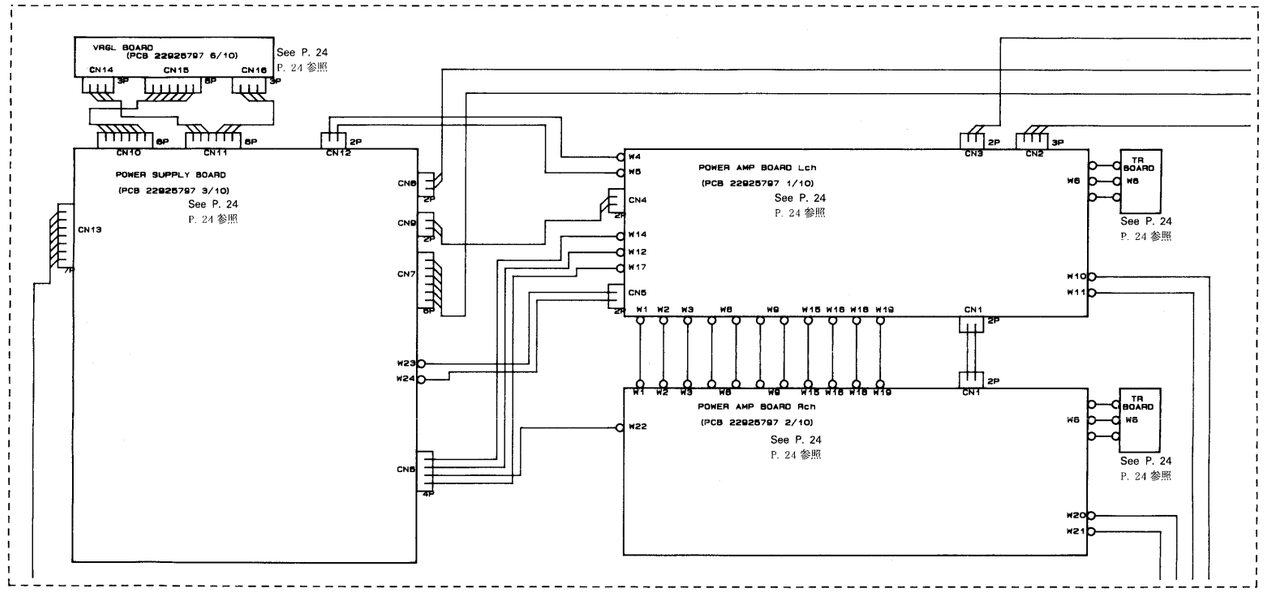


BLOCK DIAGRAM (PA-200/400 common / PA-200/400 共通)



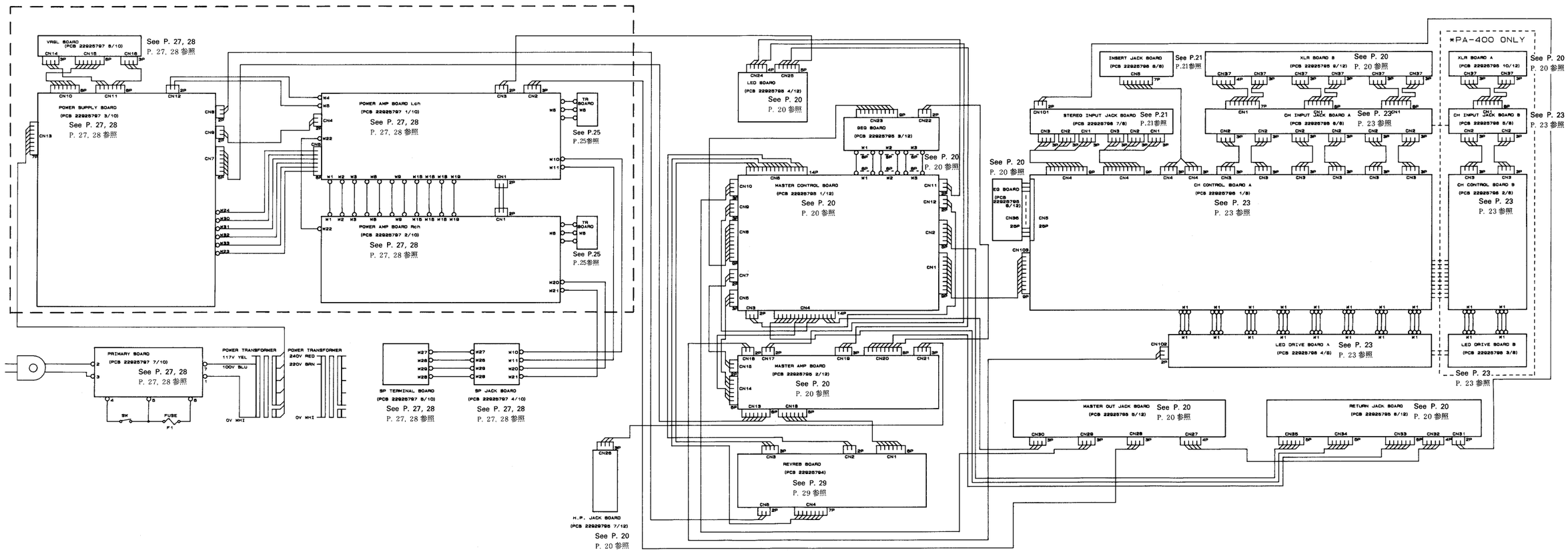
WIRING DIAGRAM

PA-200: SNo.ZA50100—ZB21049 } Type A
PA-400: SNo.ZA50100—ZB21049 }



PA-200: SNo.ZB31050—ZC41899 } Type B
PA-400: SNo.ZB31150—ZC52849 }

PA-200: SNo.ZD11900-up/以降 } Type C
PA-400: SNo.ZC62850-up/以降 }



MASTER BOARD

ASSY 7117542002 : PA-200 (pcb 2292579502)
ASSY 7117442002 : PA-400

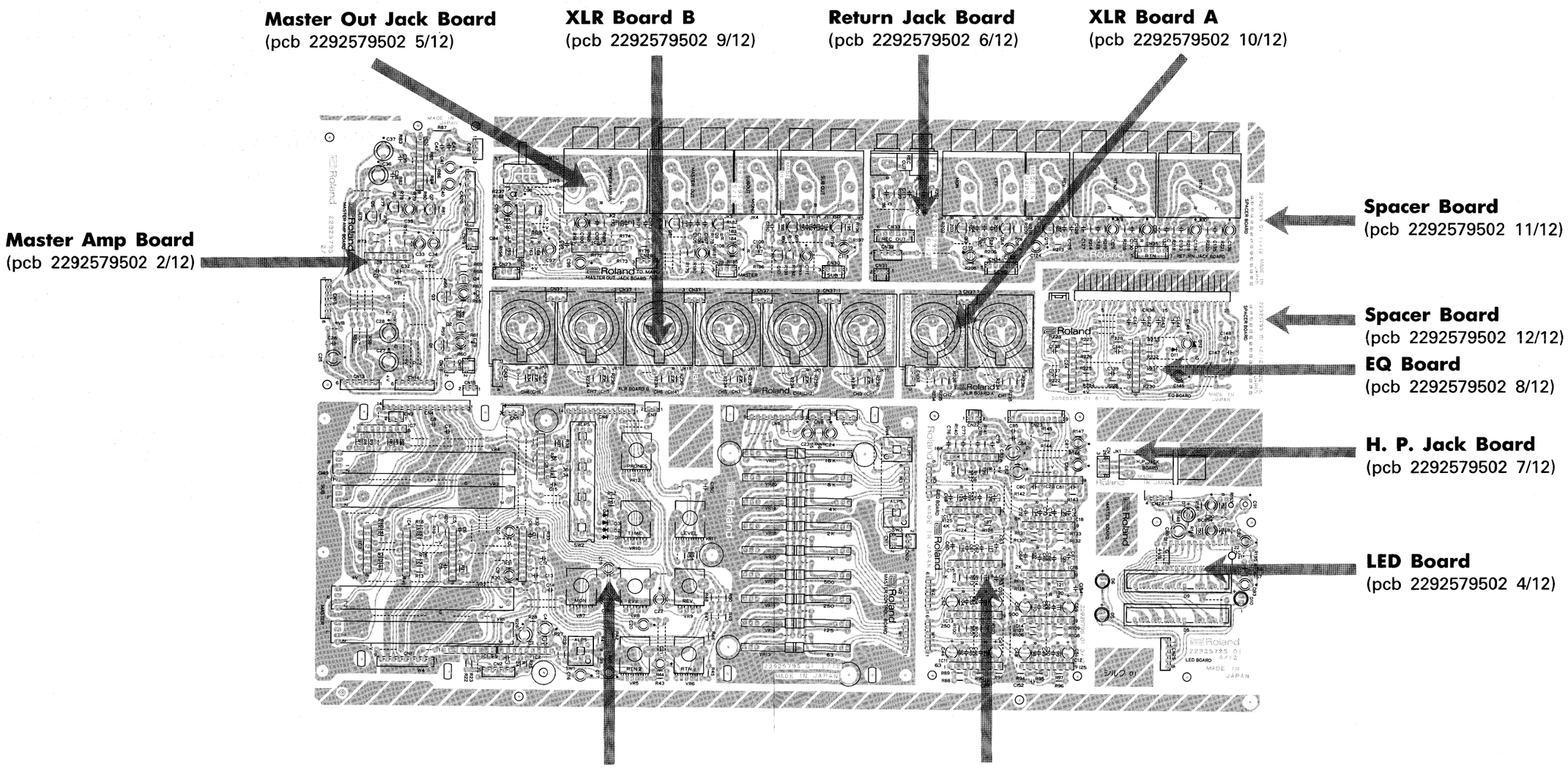
REPLACEMENT （補修用）

MASTER BOARD
ASSY 7117542002 : PA-200
ASSY 7117442002 : PA-400

◆ Master Board consists of the following 12PCBs
◆ マスター基板は，下記の12点から成ります。

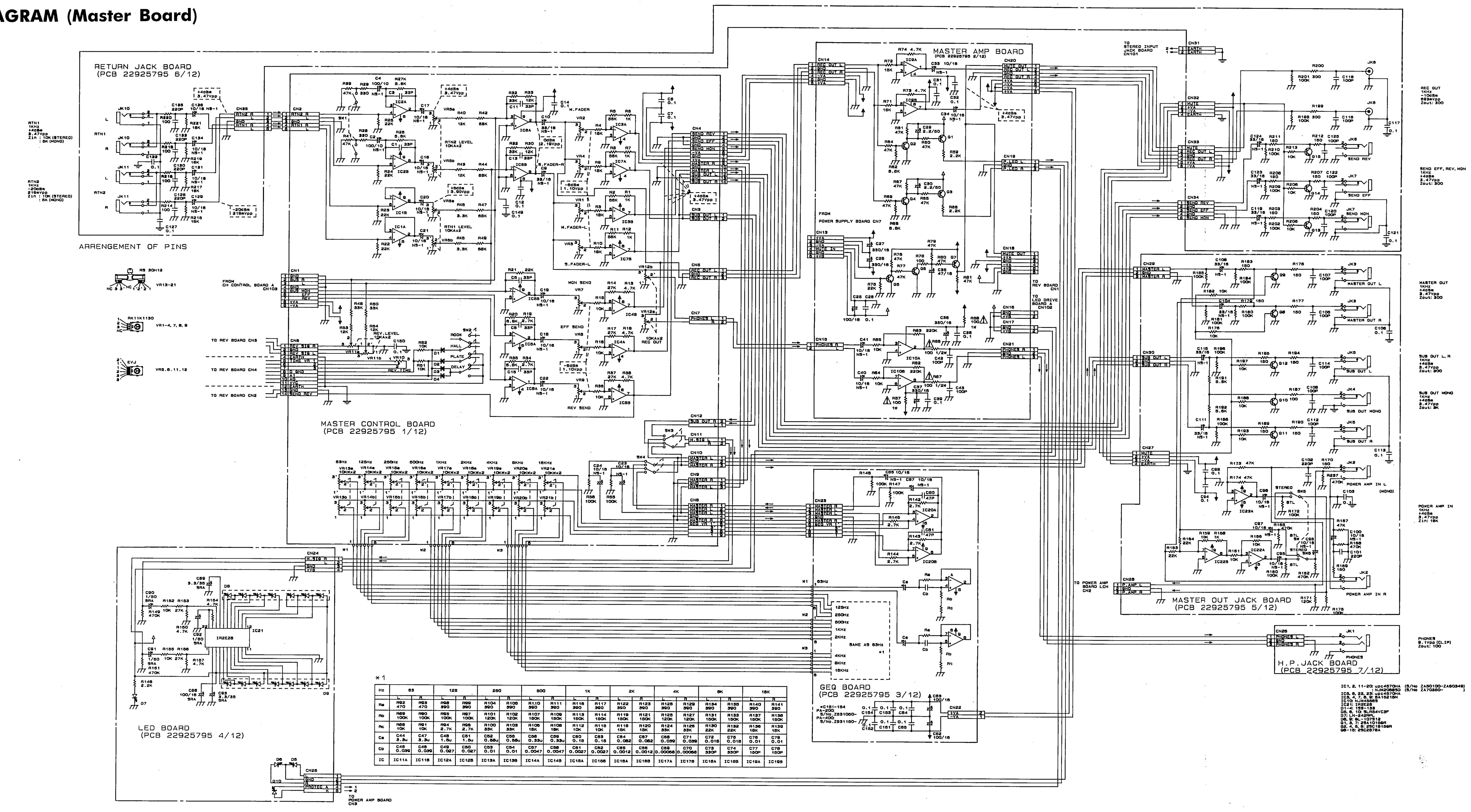
• Master Control Board	(pcb 2292579502 1/12)	• H. P. Jack Board	(pcb 2292579502 7/12)
• Master Amp Board	(pcb 2292579502 2/12)	• EQ Board	(pcb 2292579502 8/12)
• GEQ Board	(pcb 2292579502 3/12)	• XLR Board B	(pcb 2292579502 9/12)
• LED Board	(pcb 2292579502 4/12)	• XLR Board A	(pcb 2292579502 10/12)
• Master Out Jack Board	(pcb 2292579502 5/12)	• Spacer Board	(pcb 2292579502 11/12)
• Return Jack Board	(pcb 2292579502 6/12)	• Spacer Board	(pcb 2292579502 12/12)

NOTE: Replacement Master Board of PA-200 and that of PA-400 have dedicated wiring Assy, respectively, and cannot be substituted for each other.
注：PA-200 と PA-400 の補修用マスター基板は，ワイヤリングのため互換性がありません。



View from foil side

CIRCUIT DIAGRAM (Master Board)

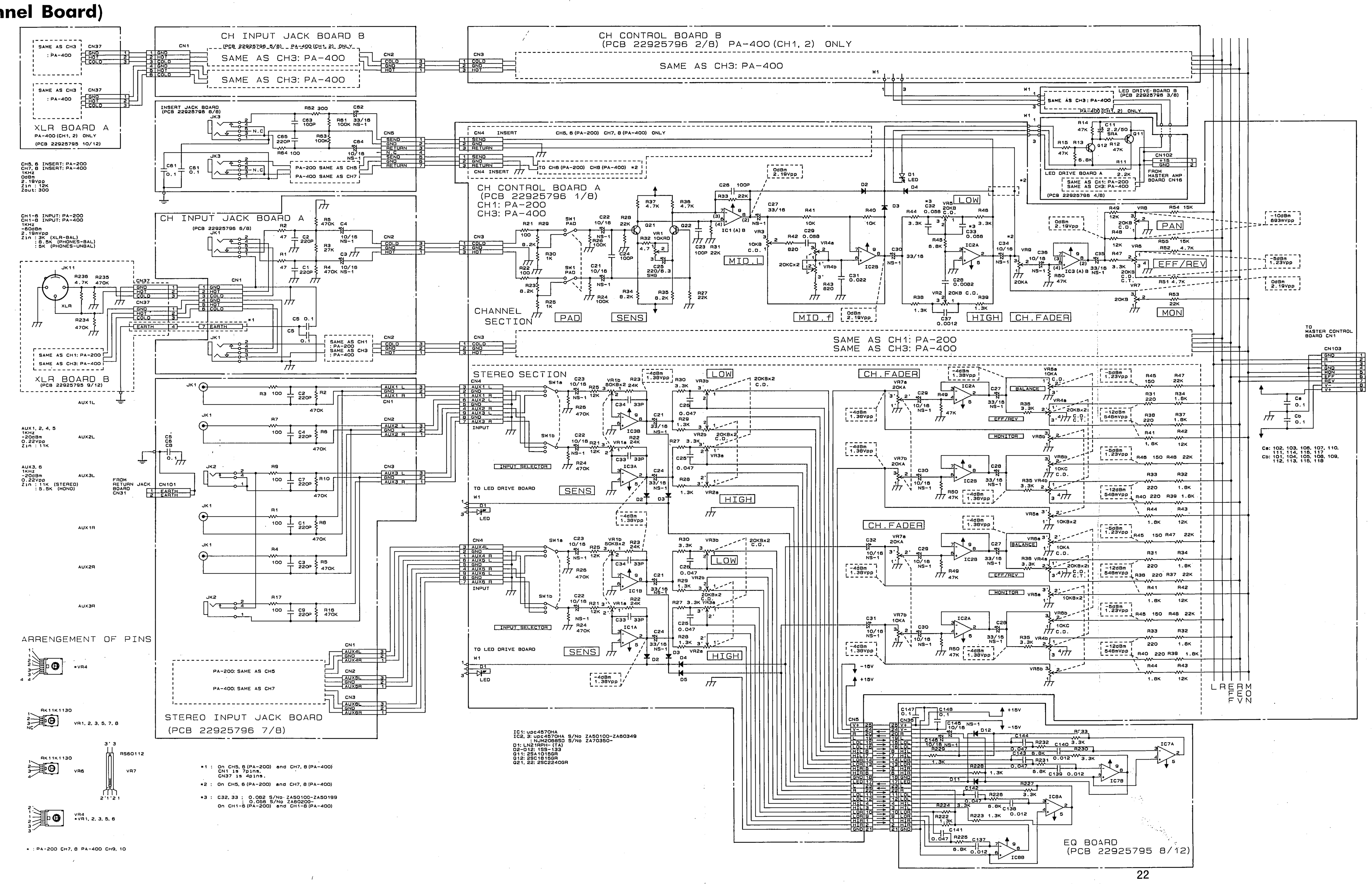


∗Signal lebels (dBm. Vpp) in circuit diagram are taken under conditions.
∗回路図内の信号レベル（dBm. Vpp）は下記のセッティング時のレベルです。

SETTING/設定

CHANNEL SECTION		MASTER SECTION	
SENS	: -60dBm	RETURN	
PAD	: OFF	RTN1	: 10 (MAX)
AUX SELECTOR	: Select it if necesary	RTN2	: 10 (MAX)
EQ (HIGH)	: center	SEND	
(MID)	: center	REV	: 8
(LOW)	: center	EFF	: 8
REV/EFF		MON	: 8
When REV circuit is checked	: REV 10 (MAX)	PHONES	: 10
When EFF circuit is checked	: EFF 10 (MAX)	RTN2-LEVEL	: Select this button according to INPUT LEVEL
MON	: 10 (MAX)	GEQ	: OFF
PAN	: center		
CH Faders	: 10 (MAX)	MASTER Faders	: 8
		SUBOUT Faders	: 8

CIRCUIT DIAGRAM (Channel Board)



*Signal lebels (dBm. Vpp) in circuit diagram are taken under conditions.
*回路図内の信号レベル（dBm. Vpp）は下記のセッティング時のレベルです。

SETTING/設定

CHANNEL SECTION		MASTER SECTION	
SENS	: -60dBm	RETURN	
PAD	: OFF	RTN1	: 10 (MAX)
AUX SELECTOR	: Select it if necesary	RTN2	: 10 (MAX)
EQ (HIGH)	: center	SEND	
(MID)	: center	REV	: 8
(LOW)	: center	EFF	: 8
REV/EFF		MON	: 8
When REV circuit is checked	: REV 10 (MAX)	PHONES	: 10
When EFF circuit is checked	: EFF 10 (MAX)	RTN2-LEVEL	: Select this button according to INPUT LEVEL
MON	: 10 (MAX)	GEQ	: OFF
PAN	: center		
CH Faders	: 10 (MAX)	MASTER Faders	: 8
		SUBOUT Faders	: 8

CHANNEL BOARD

ASSY 7117543002 : PA-200 (pcb 2292579602)
ASSY 7117443002 : PA-400

REPLACEMENT（補修用）

CHANNEL BOARD
ASSY 7117543002 : PA-200
ASSY 7117443002 : PA-400

◆ Channel Board consists of the following 8PCBs.
◆ チャンネル基板は，下記の８点から成ります

- Channel Control Board A (pcb 2292579602 1/8)
- Channel Control Board B (pcb 2292579602 2/8)
- LED Drive Board A (pcb 2292579602 3/8)
- LED Drive Board B (pcb 2292579502 4/8)
- Channel Input Jack Board B (pcb 2292579602 5/8)
- Channel Input Jack Board A (pcb 2292579602 6/8)
- Stereo Input Jack Board (pcb 2292579602 7/8)
- Insert Jack Board (pcb 2292579602 8/8)

NOTE: Replacement Channel Board of PA-200 and that of PA-400 have dedicated wiring Assy, respectively, and cannot be substituted for each other.
注：PA-200 と PA-400 の補修用チャンネル基板は，ワイヤリングのため互換性がありません。

■Defference between replacement Channel Board of PA-200 and that of PA-400.
PA-200 と PA-400 の補修用チャンネル基板の違い
(In addition to wiring difference) PA-200 Channel Board lacks some components on Channel Control Board B, which are found on PA-400's.
PA-200 補修用チャンネル基板には，一部，部品が実装されていません
(Channel Control Board B 上)