HITACHI
SERVICE MANUAL

TY | No. 571EF-1

MX-W50
(US,CS,ES,VS,BK,SA,KS,ZS,EW)

SUPPLEMENT

TABLE: HTY-3302DH PLAN
TABLE: HTY-3602DH PLAN

CONTENTS

TABLE DES MATIERES

In this unit, a printed wiring board has been changed for operability and performance improvement purposes. This Service Manual contains the PWB, circuit and wiring diagrams after the modification. Use it together with the already released MX-W50 Service Manual (TY No. 571EF). The table below shows the serial Nos. from which the modification was introduced.

Color	Serial No.
BLACK	from 006381
WHITE	from 001731

The HTY-3302DH/3602DH mechanism is a partially modified version of the HTY-3300DH/3600DH mechanism.

Dans cet appareil, une plaquette de circuit imprimé a été modifiée dans le but de faciliter l'utilisation et d'améliorer les performances. Les sohémas de ce manuel d'entretien concernant les PCI, circuits et câblages tiennent compte de cette modification. Ce manuel doit être utilisé conjointement avec le manuel d'entretien MX-W50 (TY No. 571EF) déjà publié. Le tableau cidessous indique les numéros de série affectés par la modification.

Couleur	No. de série
NOIR	à partir de 006381
BLANC	à partir de 001731

Le mécanisme HTY-3302DH/3602DH est une version partiellement modifiée du mécanisme HTY-3300DH/3600DH.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

STEREO CASSETTE RECEIVER/COMPACT DISC PLAYER

November 1987 YOKOHAMA WORKS

SAFETY PRECAUTIONS

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety-related characteristics, always use genuine Hitachi replacement parts. Especially critical parts in the power circuit block should not be replaced with other makers. Critical parts are marked with ⚠ in the circuit diagram and printed wiring board.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

MAINTENANCE

■ Clean cabinet and panels when dirty

Clean off dirt on the surfaces with a dry cloth. Never use thinners, benzene or alcohol since these will damage the surface finish.

PRÉCAUTIONS DE SÉCURITÉ

Les précautions suivantes doivent être observées chaque fois qu'une réparation doit être faite.

1. Etant donné que de nombreux composants de l'appareil possèdent des caractéristiques relatives à la sécurité, utiliser uniquement des pièces de rechange d'origine Hitachi pour effectuer un remplacement. Ceci se rapporte notamment aux pièces critiques du bloc d'alimentation qui ne doivent en aucun cas être remplacées par celles d'autres fabricants. Les pièces critiques sont accompagnés du symbole ⚠ dans le plan de circuit et sur le plan de base.
2. Avant de retourner l'appareil répare au client le technicien doit procéder à un essai complet pour s'assurer qu'il ne présente aucun danger de chocs électriques.

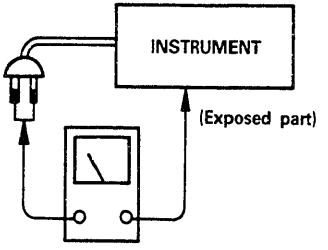
ENTRETIEN

■ Nettoyage du coffret et des panneaux lorsqu'ils sont sales

Enlever la poussière des surfaces de l'appareil avec un chiffon sec. Ne jamais utiliser de solvants, de benzine ou d'alcool car ils abîmeraient le fini des surfaces.

Check that exposed parts are acceptably insulated from the supply circuit before returning the instrument repaired to the customer.

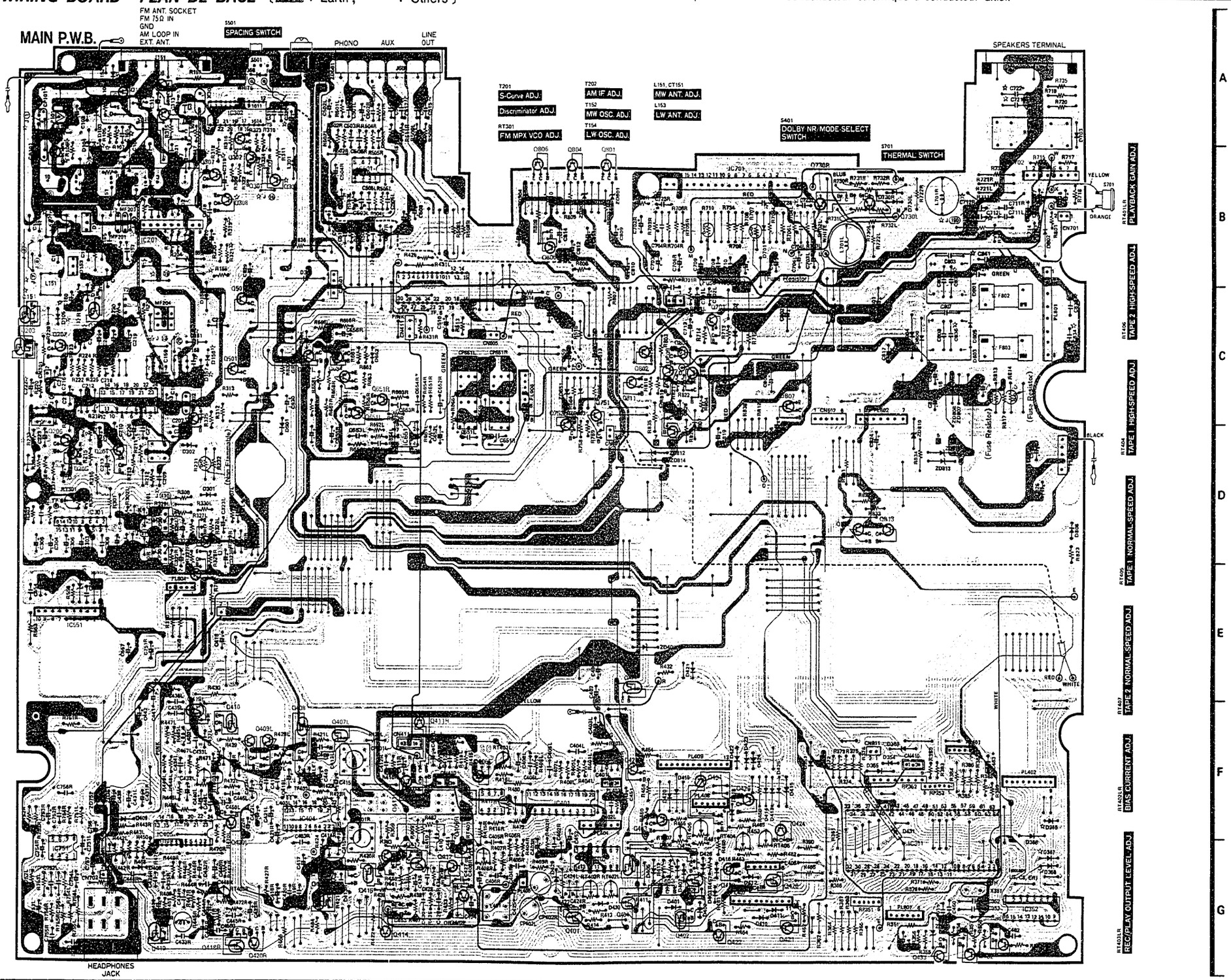
- **Checking method**
  Power switch is set to ON.
  Next, measure the resistance value between the both poles of attachment cup (Power supply plug) and the exposed parts (Parts such as Knob, Cover, etc. where the customer is easy to touch.) and check that the resistance value is 500 kohms or more.



Insulation tester (DC 500V)

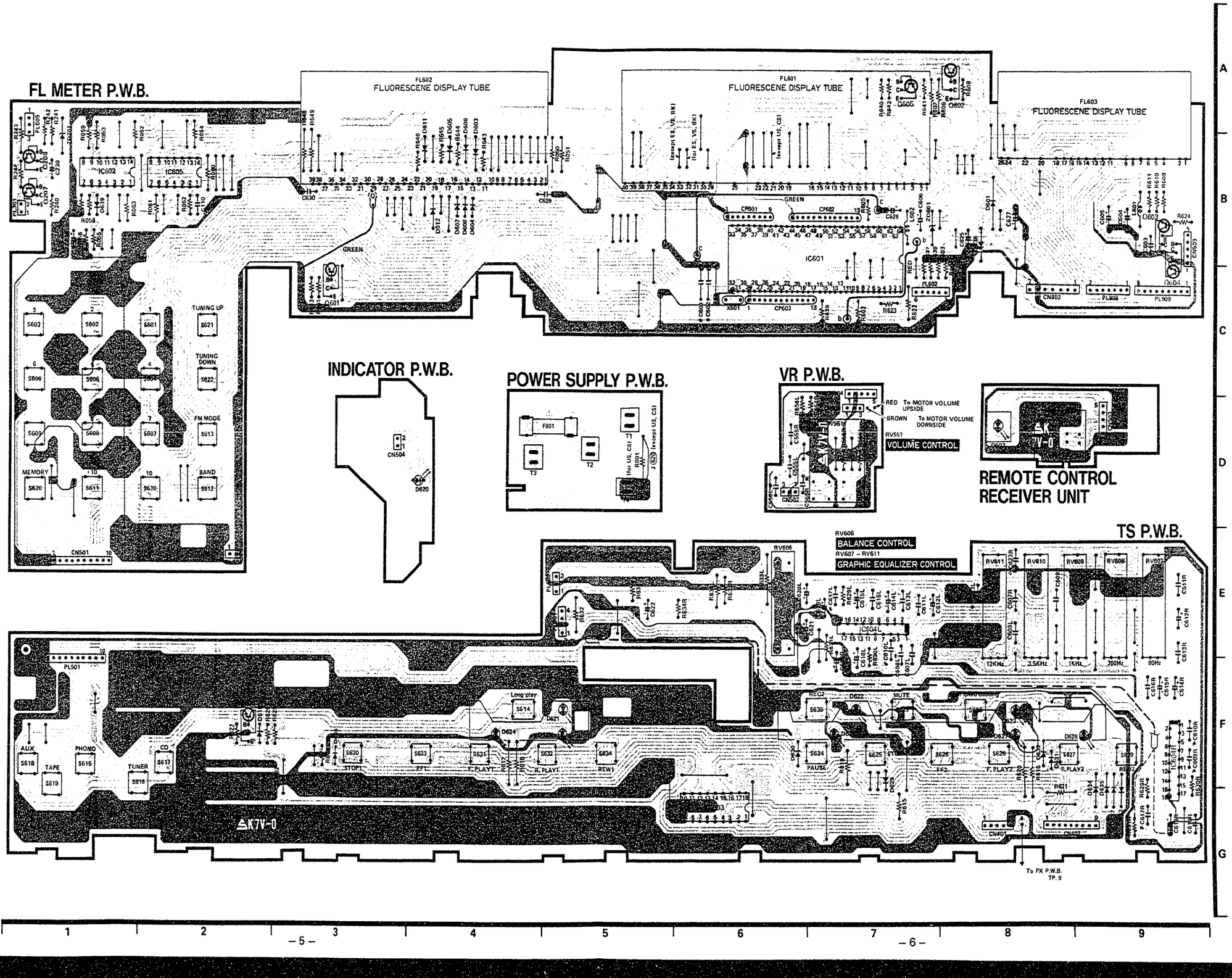
PRINTED WIRING BOARD · PLAN DE BACE [▬ : Earth , ▭ : Others]

The circuit symbol (☆) means difference for destination. (Refer to the table in page 21.)
Le symbol de circuit ☆) signifie qu'il s'agit des différence pour distination. (Consulter la table dans le page 21.)
※ : Axial lead cylindrical ceramic capacitor. ※ : Condensateur ceramique a conducteur axial.



PRINTED WIRING BOARD · PLAN DE BACE [: Earth , : Others]

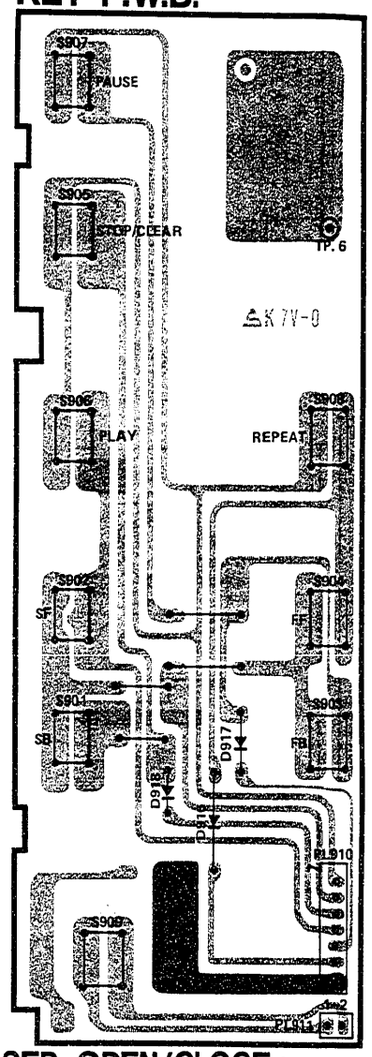
※ : Axial lead cylindrical ceramic capacitor. ※ : Condensateur ceramique a conducteur axial.



PRINTED WIRING BOARD · PLAN DE BACE [■ : Earth , ▨ : Others]

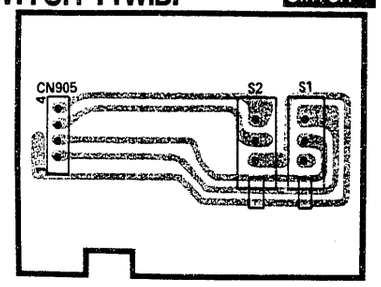
※ : Axial lead cylindrical ceramic capacitor. ※ : Condensateur ceramique a conducteur axial.

KEY P.W.B.

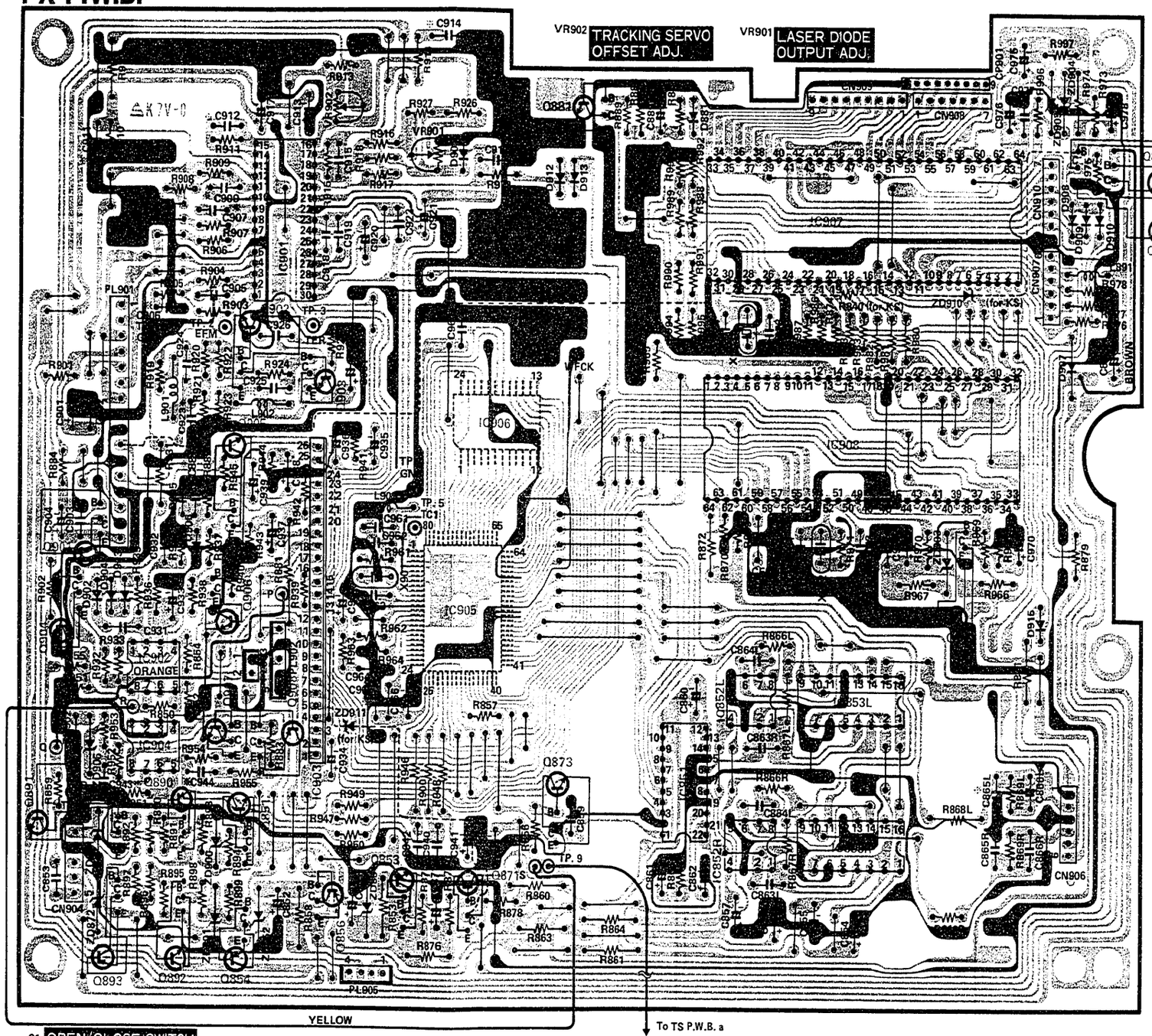


LASER, OPEN/CLOSE SWITCH P.W.B.

S909 OPERATE SWITCH



PX P.W.B.



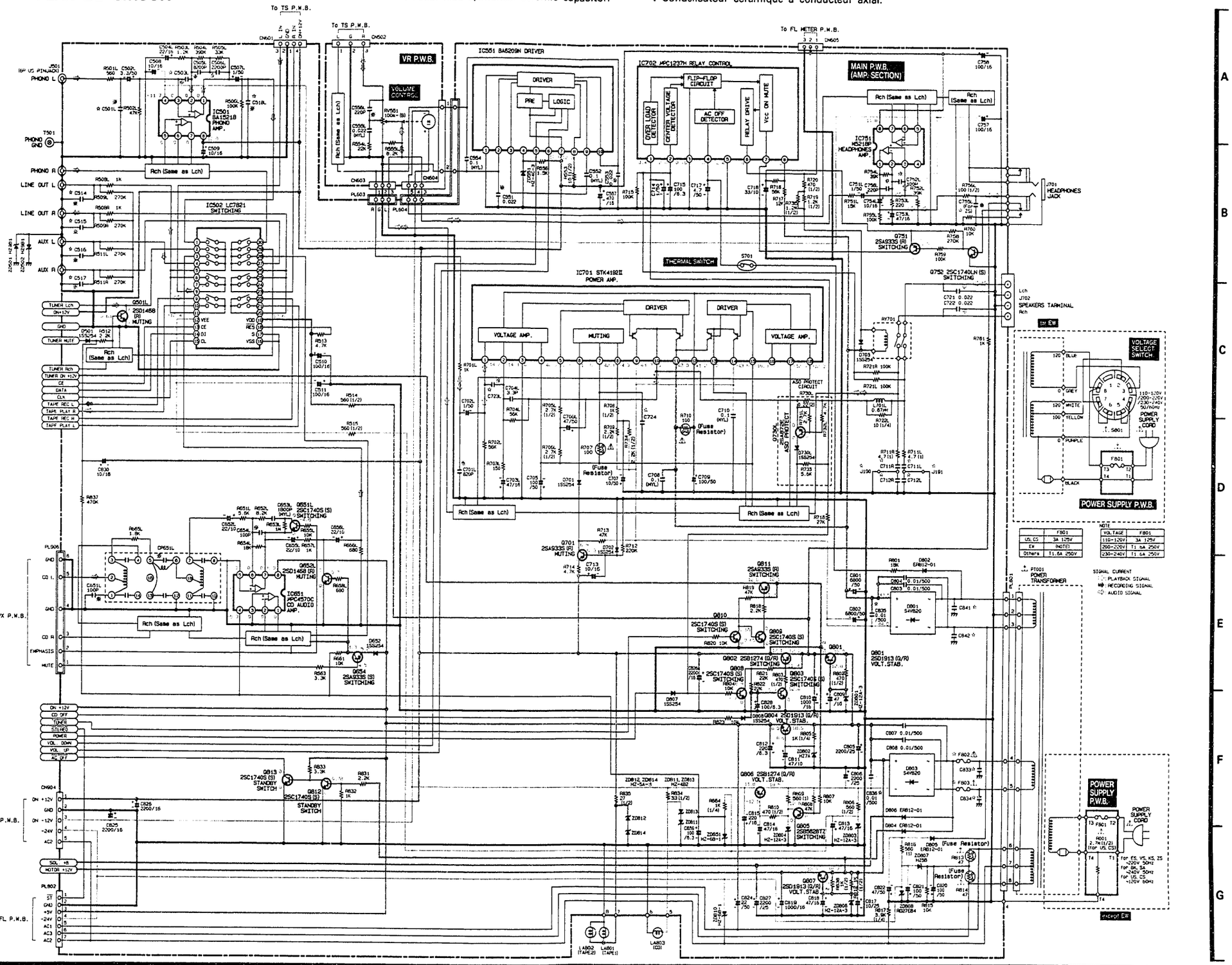
S1 OPEN/CLOSE SWITCH

S2 LASER SWITCH

CIRCUIT DIAGRAM
PLAN DE CIRCUIT

[: +B, : −B]

The circuit symbol (☆) means difference for destination. (Refer to the table in page 22~23.)
Le symbol de circuit (☆) signifie qu'il s'agit des différence pour distination. (Consulter la table dans le page 22~23.)
☆ : Axial lead cylindrical ceramic capacitor. ☆ : Condensateur ceramique a conducteur axial.



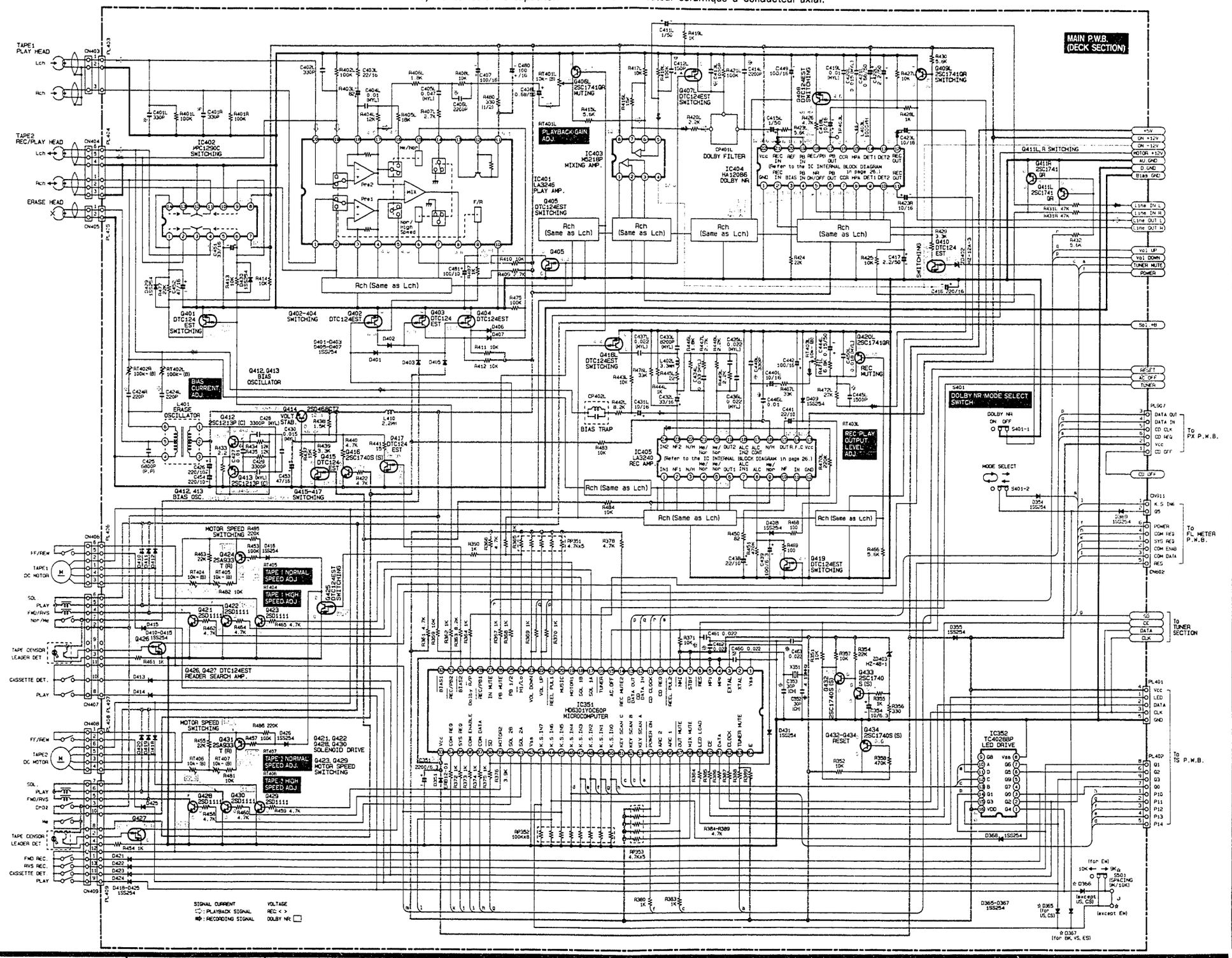
	FB01
US, CS	3A 125V
EK	(NOTE)
Others	T1.6A 250V

NOTE	
VOLTAGE	FB01
110~120V	3A 125V
200~220V	T1.6A 250V
230~240V	T1.6A 250V

CIRCUIT DIAGRAM
PLAN DE CIRCUIT

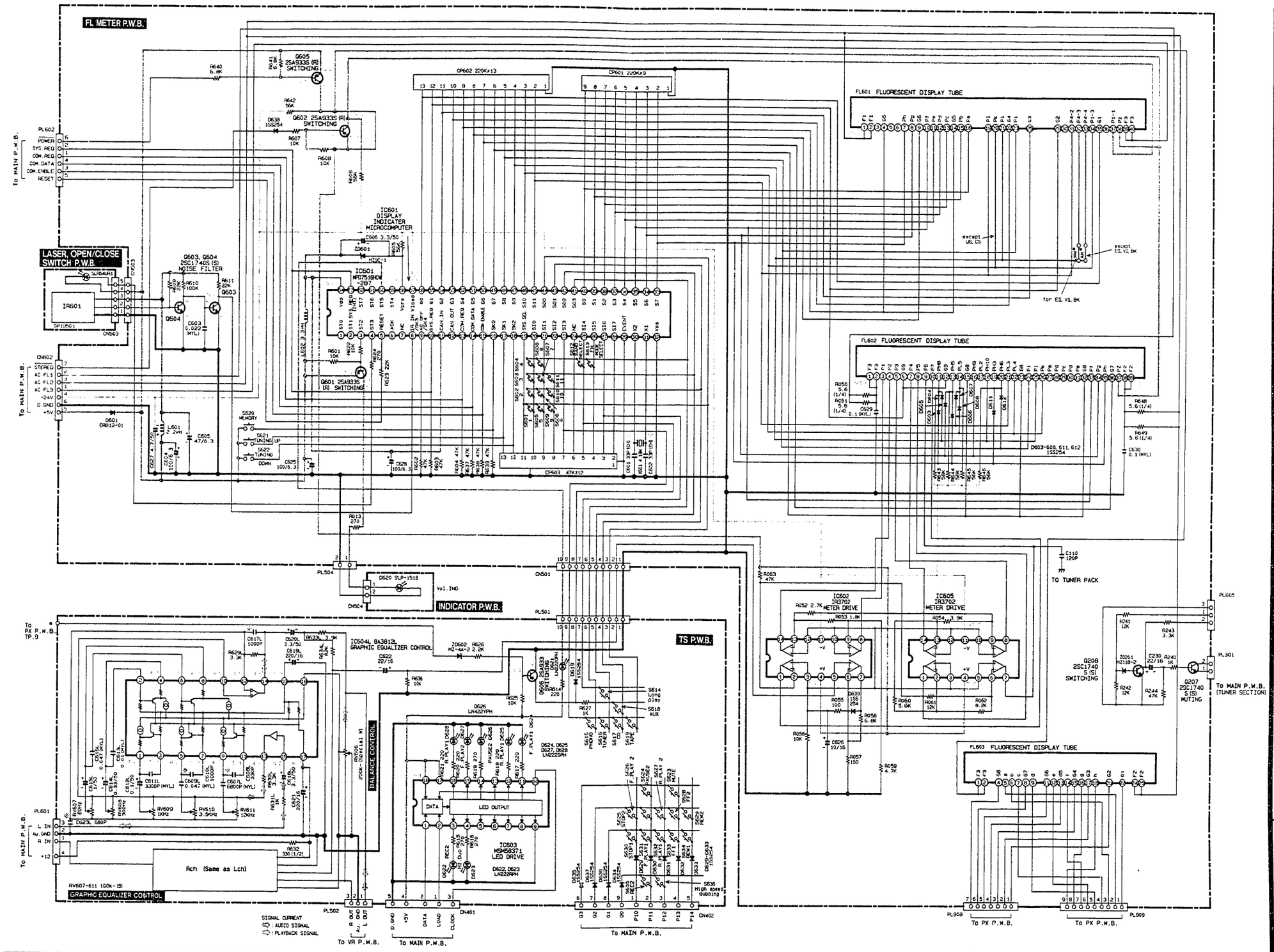
〔▨ : +B, ▨ : −B〕

The circuit symbol (⁂) means difference for destination. (Refer to the table in page 22~23.)
Le symbol de circuit (⁂) signifie qu'il s'agit des différence pour distination. (Consulter la table dans le page 22~23.)
⁂ : Axial lead cylindrical ceramic capacitor. ⁂ : Condensateur ceramique a conducteur axial.



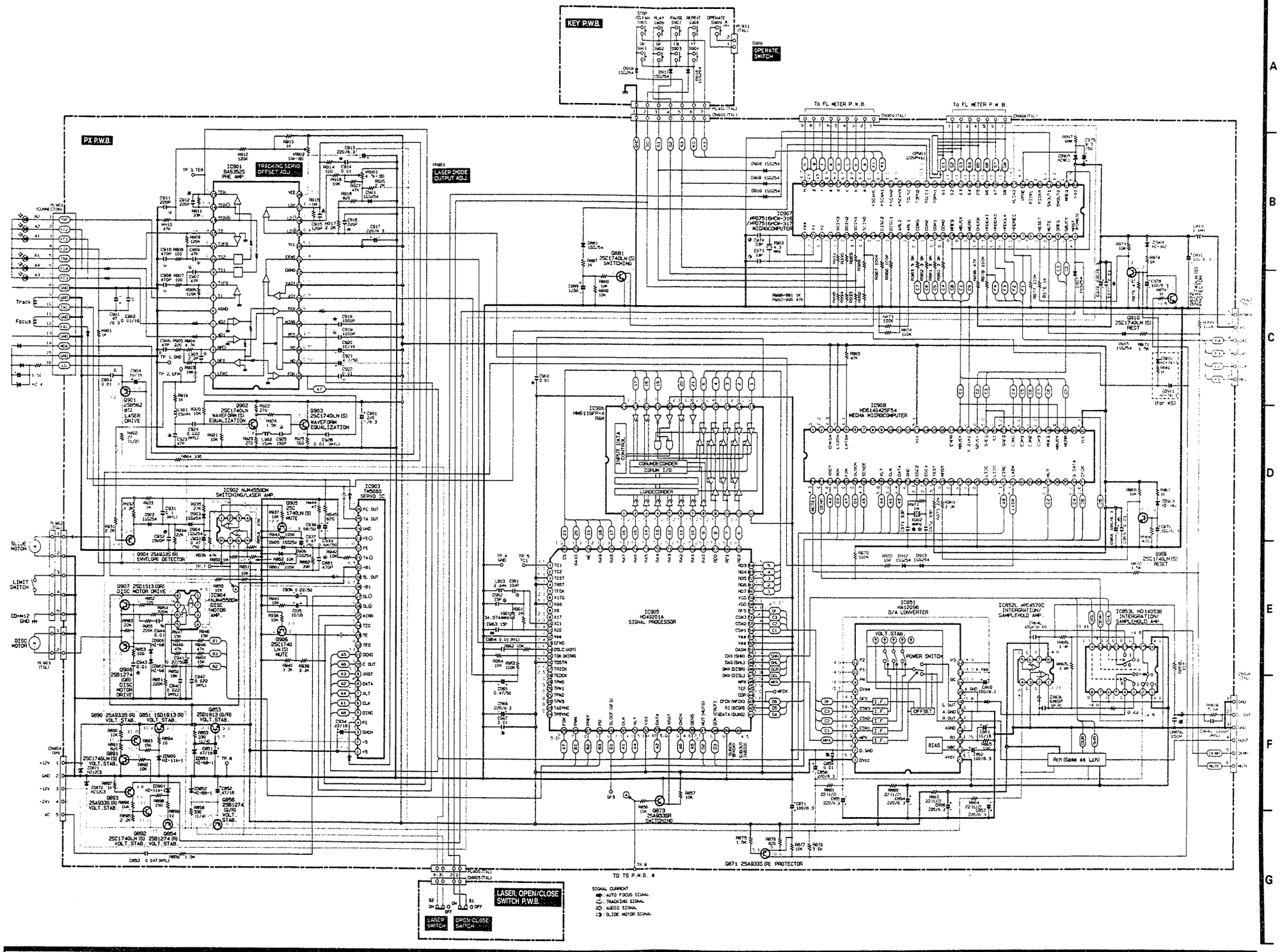
CIRCUIT DIAGRAM
PLAN DE CIRCUIT

: Axial lead cylindrical ceramic capacitor. : Condensateur ceramique a conducteur axial.



CIRCUIT DIAGRAM
PLAN DE CIRCUIT

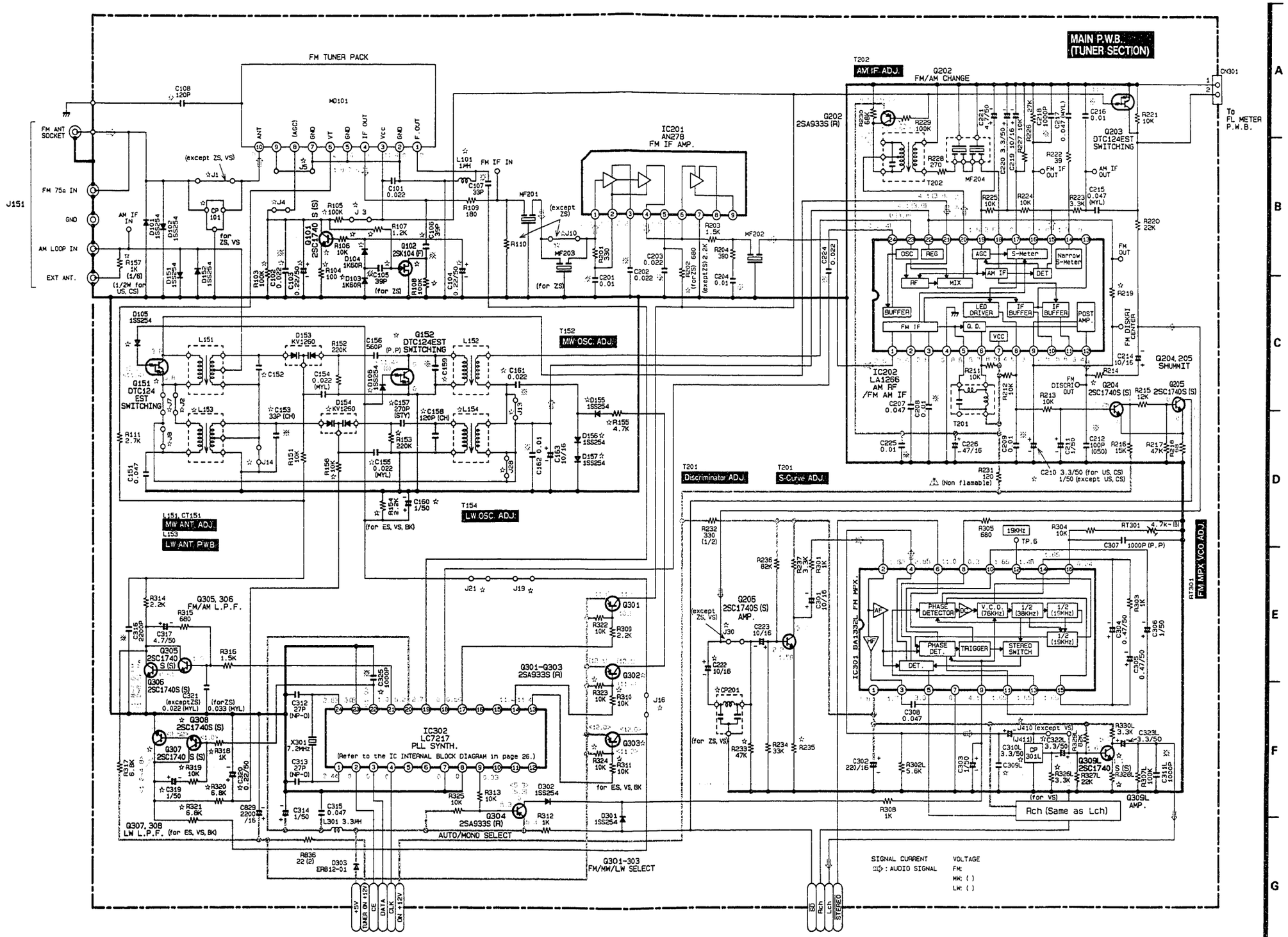
※ : Axial lead cylindrical ceramic capacitor.　※ : Condensateur ceramique a conducteur axial.



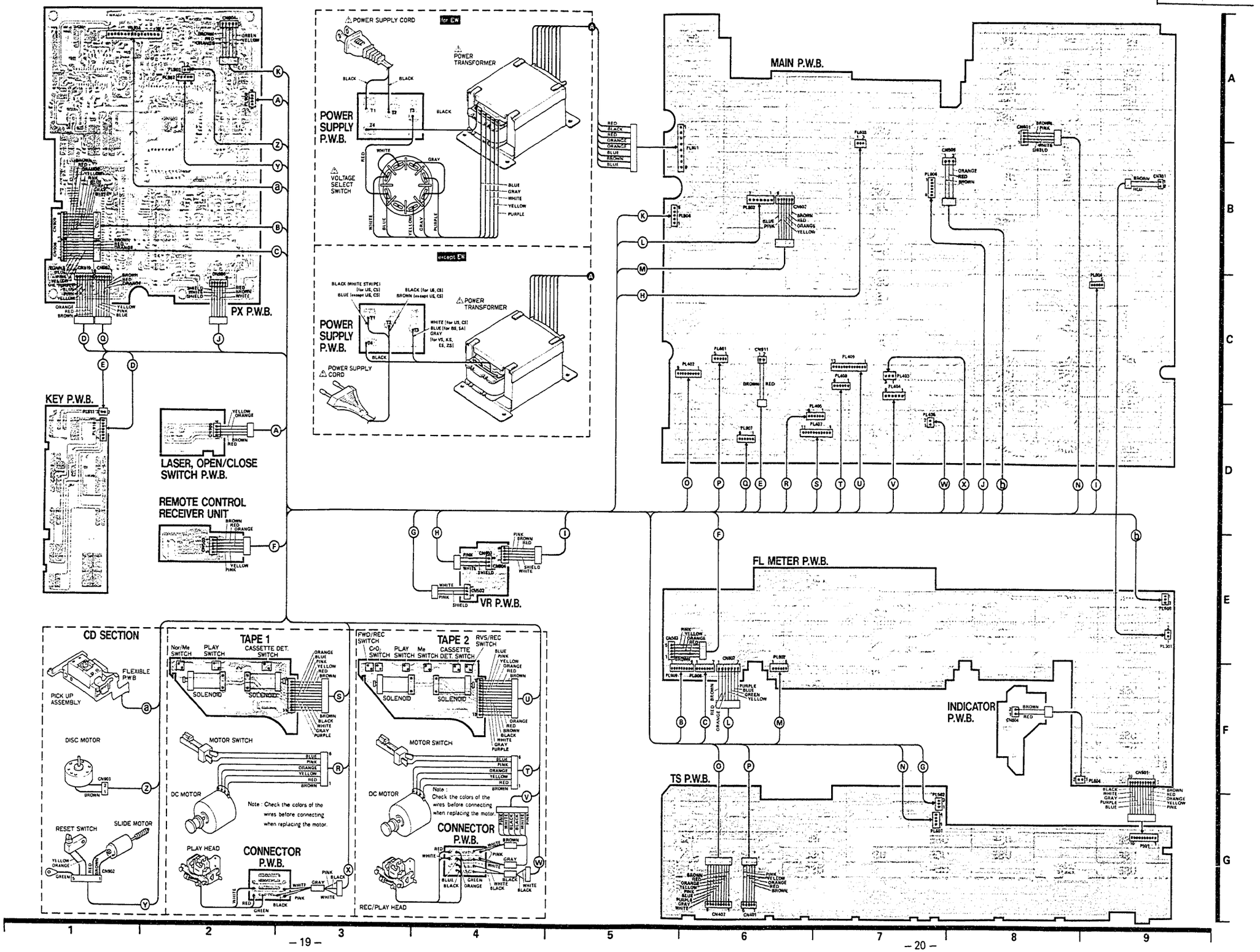
CIRCUIT DIAGRAM
PLAN DE CIRCUIT

[: +B, : −B]

The circuit symbol (☆) means difference for destination. (Refer to the table in page 22~23.)
Le symbol de circuit (☆) signifie qu'il s'agit des différence pour distination. (Consulter la table dans le page 22~23.)
☆ : Axial lead cylindrical ceramic capacitor. ☆ : Condensateur ceramique a conducteur axial.



WIRING DIAGRAM · SCHÉMA DE CÂBLAGE



DIFFERENCE FOR DESTINATION (for MAIN P.W.B)
DIFFÉRENCE EN FONCTION DU PAYS DE DESTINATION (pour la plaquette principal)

MX-W50 MX-W50

☆No.	ES	VS	BK	KS	ZS	SA	US, CS	EW
C102—C106	—	—	—	—	USE	—	—	—
C153	USE	USE	USE	—	—	—	—	—
C155	USE	USE	USE	—	—	—	—	—
C157, 158	USE	USE	USE	—	—	—	—	—
C160, 161	USE	USE	USE	—	—	—	—	—
C222	—	USE	—	—	USE	—	—	—
C319, 320	USE	USE	USE	—	—	—	—	—
C322LR	—	USE	—	—	—	—	—	—
C325	USE	USE	USE	—	—	—	—	—
C514—517	—	—	—	—	USE	—	—	—
C518LR	—	—	—	—	USE	—	—	—
C712LR	—	—	USE	—	—	—	—	—
C723LR, 724	—	—	—	—	USE	—	—	—
C755LR	—	—	—	—	USE	—	—	—
C833—836	—	—	—	—	USE	—	—	—
C841, 842	—	—	—	—	USE	—	—	—
R103—108	—	—	—	—	USE	—	—	—
R110	USE	USE	USE	USE	—	USE	USE	USE
R153—156	USE	USE	USE	—	—	—	—	—
R233	—	USE	—	—	USE	—	—	—
R310, 311	USE	USE	USE	—	—	—	—	—
R318, 319	USE	USE	USE	—	—	—	—	—
R320, 321	USE	USE	USE	—	—	—	—	—
R323, 324	USE	USE	USE	—	—	—	—	—
R326LR	—	USE	—	—	—	—	—	—
Q101, 102	—	—	—	—	USE	—	—	—
Q151, 152	USE	USE	USE	—	—	—	—	—
Q302, 303	USE	USE	USE	—	—	—	—	—
Q307, 308	USE	USE	USE	—	—	—	—	—
D103, 104	—	—	—	—	USE	—	—	—
D105, 106	USE	USE	USE	—	—	—	—	—
D154—157	USE	USE	USE	—	—	—	—	—
D365	—	—	—	—	—	—	USE	—
D366	USE	USE	USE	USE	USE	USE	—	USE
D367	USE	USE	USE	—	—	—	—	—
L101	USE	USE	USE	USE	—	USE	USE	USE
L153, 154	USE	USE	USE	—	—	—	—	—
CP101, 201	—	USE	—	—	USE	—	—	—
CP301LR	—	USE	—	—	—	—	—	—
MF203	—	—	—	—	USE	—	—	—
S501	—	—	—	—	—	—	—	USE
US pin cord	—	—	—	—	USE	—	—	—
Jumper ①	USE	—	USE	USE	—	USE	USE	USE
Jumper ⑦, ⑧	—	—	—	USE	USE	USE	USE	USE
Jumper ③, ④, ⑤	—	—	—	—	USE	—	—	—
Jumper ②	USE	USE	USE	—	—	—	—	—
Jumper ⑩	USE	USE	USE	USE	—	USE	USE	USE
Jumper ⑬, ⑭	—	—	—	USE	USE	USE	USE	USE
Jumper ⑯	USE	USE	USE	—	—	—	—	—
Jumper ⑲	USE	USE	USE	—	—	—	—	—
Jumper ㉑	USE	USE	USE	—	—	—	—	—
Jumper ㉘	USE	USE	USE	—	—	—	—	—
Jumper ㉚	USE	—	USE	USE	—	USE	USE	USE
Jumper ㊱, ㊲	USE	—	USE	USE	USE	USE	USE	USE
Jumper ㊴, ㊵	USE	USE	—	USE	USE	USE	USE	USE

(for CIRCUIT DIAGRAM) (pour le schéma des circuits)

☆No.	ES	VS	BK	KS	ZS	SA	US, CS	EW
C102	—	—	—	—	0.022 μ F	—	—	—
C103	—	—	—	—	0.22 μ F/50V	—	—	—
C104	—	—	—	—	0.22 μ F/50V	—	—	—
C105	—	—	—	—	39PF	—	—	—
C106	—	—	—	—	39PF	—	—	—
C152	5.6PF(CH)	5.6PF(CH)	5.6PF(CH)	8.2PF(CH)	8.2PF(CH)	8.2PF(CH)	3.9PF(CH)	3.9PF(CH)
C153	33PF(CH)	33PF(CH)	33PF(CH)	—	—	—	—	—
C155	0.022 μ F	0.022 μ F	0.022 μ F	—	—	—	—	—
C157	270PF	270PF	270PF	—	—	—	—	—
C158	120PF(CH)	120PF(CH)	120PF(CH)	—	—	—	—	—
C159	18PF(CH)	18PF(CH)	18PF(CH)	22PF(CH)	22PF(CH)	22PF(CH)	18PF(CH)	18PF(CH)
C160	1 μ F/50V	1 μ F/50V	1 μ F/50V	—	—	—	—	—
C161	0.022 μ F	0.022 μ F	0.022 μ F	—	—	—	—	—
C210	1 μ F/50V	1 μ F/50V	1 μ F/50V	1 μ F/50V	1 μ F/50V	—	3.3 μ F/50V	—
C222	—	10 μ F/16V	—	—	10 μ F/16V	—	—	—
C309LR	0.012 μ F	0.022 μ F	0.012 μ F	0.012 μ F	0.012 μ F	0.012 μ F	0.018 μ F	0012 μ F
C319	1 μ F/50V	1 μ F/50V	1 μ F/50V	—	—	—	—	—
C320	0.22 μ F/50V	0.22 μ F/50V	0.22 μ F/50V	—	—	—	—	—
C321	0.022 μ F	0.022 μ F	0.022 μ F	0.022 μ F	0.033 μ F	0.022 μ F	0.022 μ F	0.022 μ F
C322LR	—	3.3 μ F/50V	—	—	—	—	—	—
C325	1000PF	1000PF	1000PF	—	—	—	—	—
C501LR	150PF	150PF	150PF	150PF	2200PF	150PF	150PF	150PF
C503LR	100PF	100PF	100PF	100PF	470PF	100PF	100PF	100PF
C514	—	—	—	—	1000PF	—	—	—
C515	—	—	—	—	1000PF	—	—	—
C516	—	—	—	—	220PF	—	—	—
C517	—	—	—	—	220PF	—	—	—
C518LR	—	—	—	—	680PF	—	—	—
C711LR	0.047 μ F	0.047 μ F	0.1 μ F	0.047 μ F	0.047 μ F	0.047 μ F	0.047 μ F	0.047 μ F
C712LR	—	—	0.1 μ F	—	—	—	—	—
C723LR	—	—	—	—	0.01 μ F	—	—	—
C724	—	—	—	—	0.01 μ F	—	—	—
C755LR	—	—	—	—	1000PF	—	—	—
C833	—	—	—	—	0.022 μ F	—	—	—
C834	—	—	—	—	0.022 μ F	—	—	—
C835, 836	—	—	—	—	0.01 μ F	—	—	—
C841	—	—	—	—	0.022 μ F	—	—	—
C842	—	—	—	—	0.022 μ F	—	—	—
R001	—	—	—	—	—	—	2.7MΩ	—
R103	—	—	—	—	100KΩ	—	—	—
R104	—	—	—	—	100Ω	—	—	—
R105	—	—	—	—	100KΩ	—	—	—
R106	—	—	—	—	10KΩ	—	—	—
R107	—	—	—	—	1.2KΩ	—	—	—
R108	—	—	—	—	100KΩ	—	—	—
R110	220Ω	220Ω	220Ω	220Ω	—	220Ω	220Ω	220Ω
R153	220KΩ	220KΩ	220KΩ	—	—	—	—	—
R154	2.2KΩ	2.2KΩ	2.2KΩ	—	—	—	—	—
R155	4.7KΩ	4.7KΩ	4.7KΩ	—	—	—	—	—
R156	10KΩ	10KΩ	10KΩ	—	—	—	—	—
R157	1KΩ(1/6W)	1KΩ(1/6W)	1KΩ(1/6W)	1KΩ(1/6W)	1KΩ(1/6W)	1KΩ(1/6W)	1KΩ(1/2W)	1KΩ(1/6W)
R202	2.2KΩ	2.2KΩ	2.2KΩ	2.2KΩ	680Ω	2.2KΩ	2.2KΩ	2.2KΩ
R214	10KΩ	10KΩ	10KΩ	10KΩ	10KΩ	10KΩ	22KΩ	10KΩ
R219	33KΩ	33KΩ	33KΩ	33KΩ	33KΩ	33KΩ	15KΩ	33KΩ
R233	—	47KΩ	—	—	47KΩ	—	—	—
R235	1.2KΩ	1.2KΩ	1.2KΩ	1.2KΩ	1.2KΩ	1.2KΩ	1.5KΩ	1.2KΩ
R310	10KΩ	10KΩ	10KΩ	—	—	—	—	—
R311	10KΩ	10KΩ	10KΩ	—	—	—	—	—

☆No.	ES	VS	BK	KS	ZS	SA	US, CS	EW
R318	1KΩ	1KΩ	1KΩ	—	—	—	—	—
R319	10KΩ	10KΩ	10KΩ	—	—	—	—	—
R320	6.8KΩ	6.8KΩ	6.8KΩ	—	—	—	—	—
R321	6.8KΩ	6.8KΩ	6.8KΩ	—	—	—	—	—
R323	10KΩ	10KΩ	10KΩ	—	—	—	—	—
R324	10KΩ	10KΩ	10KΩ	—	—	—	—	—
R326LR	—	3.3KΩ	—	—	—	—	—	—
R328LR	1.5KΩ	560Ω	1.5KΩ	1.5KΩ	1.5KΩ	1.5KΩ	1.5KΩ	1.5KΩ
Q101	—	—	—	—	2SC1740S(S)	—	—	—
Q102	—	—	—	—	2SK104(F)	—	—	—
Q151	DTC124EST	DTC124EST	DTC124EST	—	—	—	—	—
Q152	DTC124EST	DTC124EST	DTC124EST	—	—	—	—	—
Q302	2SA933S(R)	2SA933S(R)	2SA933S(R)	—	—	—	—	—
Q303	2SA933S(R)	2SA933S(R)	2SA933S(R)	—	—	—	—	—
Q307	2SC1740S(S)	2SC1740S(S)	2SC1740S(S)	—	—	—	—	—
Q308	2SC1740S(S)	2SC1740S(S)	2SC1740S(S)	—	—	—	—	—
D103	—	—	—	—	1K60R	—	—	—
D104	—	—	—	—	1K60R	—	—	—
D105	1SS254	1SS254	1SS254	—	—	—	—	—
D106	1SS254	1SS254	1SS254	—	—	—	—	—
D154	KV1260	KV1260	KV1260	—	—	—	—	—
D155	1SS254	1SS254	1SS254	—	—	—	—	—
D156	1SS254	1SS254	1SS254	—	—	—	—	—
D157	1SS254	1SS254	1SS254	—	—	—	—	—
D365	—	—	—	—	—	—	1SS254	—
D366	1SS254	1SS254	1SS254	1SS254	1SS254	1SS254	—	1SS254
D367	1SS254	1SS254	1SS254	—	—	—	—	—
L101	USE	USE	USE	USE	—	USE	USE	USE
L153	USE	USE	USE	—	—	—	—	—
L154	USE	USE	USE	—	—	—	—	—
CP101	—	USE	—	—	USE	—	—	—
CP201	—	USE	—	—	USE	—	—	—
CP301LR	—	USE	—	—	—	—	—	—
MF203	—	—	—	—	USE	—	—	—
S501	—	—	—	—	—	—	—	USE
F802	T2A	T2A	T2A	T2A	T2A	T2A	2A—125V	T2A
F803	T2A	T2A	T2A	T2A	T2A	T2A	2A—125V	T2A
Jumper ①	USE	—	USE	USE	—	USE	USE	USE
Jumper ②, ⑧	②	②	②	⑧	⑧	⑧	⑧	⑧
Jumper ③	—	—	—	—	USE	—	—	—
Jumper ④	—	—	—	—	USE	—	—	—
Jumper ⑤	—	—	—	—	USE	—	—	—
Jumper ⑦	—	—	—	USE	USE	USE	USE	USE
Jumper ⑩	USE	USE	USE	USE	—	USE	USE	USE
Jumper ⑬, ㉘	㉘	㉘	㉘	⑬	⑬	⑬	⑬	⑬
Jumper ⑭	—	—	—	USE	USE	USE	USE	USE
Jumper ⑯	USE	USE	USE	—	—	—	—	—
Jumper ⑲	USE	USE	USE	—	—	—	—	—
Jumper ㉑	USE	USE	USE	—	—	—	—	—
Jumper ㉚	USE	—	USE	USE	—	USE	USE	USE
Jumper ㊱	USE	—	USE	USE	USE	USE	USE	USE
Jumper ㊲	USE	—	USE	USE	USE	USE	USE	USE
Jumper ㊴	USE	USE	—	USE	USE	USE	USE	USE
Jumper ㊵	USE	USE	—	USE	USE	USE	USE	USE

PEPLACEMENT PARTS LIST
TABLEAU DES PIÈCES

After change			Before change		
SYMBOL No.	PART No.	DESCRIPTION	SYMBOL No.	PART No.	DESCRIPTION
		CAPACITORS			
C110	0240034	CC 120PF ±5% 50V	C110	0248686	CD 120PF ±5% 50V
C151	0209175	CD 0.047 μF +80% −20% 50V	C151	0244175	CD 0.047 μF +80% −20% 50V
C230	0252423	EL 22 μF ±20% 16V	C230		Not used
C309LR	1275032	MF 0.018 μF ±10% 50V [for US, CS]	C309LR	1275032	MF 0.018 μF ±10% 50V [for US, CS]
	1275031	MF 0.012 μF ±10% 50V [except US, CS, VS]		1275031	MF 0.012 μF ±10% 50V [except US, CS]
	1275013	MF 0.022 μF ±10% 50V [for VS]			
C315	0209175	CD 0.047 μF +80% −20% 50V	C315	0244175	CD 0.047 μF +80% −20% 50V
C422L	1252460	EL 2.2 μF ±20% 50V	C422L	0252460	EL 2.2 μF ±20% 50V
C450R	1275032	MF 0.018 μF ±10% 50V	C450R	0275032	MF 0.018 μF ±10% 50V
C454	1252415	EL 220 μF ±20% 10V	C454	0252415	EL 220 μF ±20% 10V
C480	1252426	EL 100 μF ±20% 16V	C480	0252426	EL 100 μF ±20% 16V
C481	0252414	EL 100 μF ±20% 10V	C481		Not used
C655L	0252411	EL 22 μF ±20% 10V	C655L	1252411	EL 22 μF ±20% 10V
C841	0209773	CD 0.022 μF ±20% 50V [for ZS]	C841	0244173	CD 0.022 μF +80% −20% 50V [for ZS]
C842	0209773	CD 0.022 μF ±20% 50V [for ZS]	C842	0244173	CD 0.022 μF +80% −20% 50V [for ZS]
C853	0275015	MF 0.047 μF ±10% 50V	C853		Misprint of parts number
		RESISTORS			
R240	0113615	CF 1KΩ ±5% SRD1/6P	R240		Not used
R241	0113641	CF 12KΩ ±5% SRD1/6P	R241		Not used
R242	0113641	CF 12KΩ ±5% SRD1/6P	R242		Not used
R243	0113627	CF 3.3KΩ ±5% SRD1/6P	R243		Not used
R244	0113655	CF 47KΩ ±5% SRD1/6P	R244		Not used
R376	0113629	CF 3.9KΩ ±5% SRD1/6P	R376	0113615	CF 1kΩ ±5% SRD1/6P
R487	0113615	CF 1KΩ ±5% SRD1/6P	R487		Not used
R836	1119155	ME 22Ω ±10% RN2B	R836		Misprint of resistor's kind
R840	0113615	CF 1KΩ ±5% SRD1/6P [for KS]	R840		Not used
		TRANSISTORS			
Q207	2318303	2SC1740S(S)	Q207		Not used
Q208	2318303	2SC1740S(S)	Q208		Not used
		DIODES			
D431	2398611	1SS254	D431		Not used
ZD201	2337555	HZ11B2	ZD201		Not used
ZD751	2337524	HZ9B1	ZD751		Not used
ZD752	2337524	HZ9B1	ZD752		Not used
ZD910	2337541	HZ-7A-1 [for KS]	ZD901		Not used
ZD911	2337541	HZ-7A-1 [for KS]	ZD911		Not used
		VARIABLE RESISTORS			
RV551	0189117	100kΩ-(B) (with motor)	RV551	0189114	100kΩ-(B) (with motor)
		MISCELLANEOUS			
J701	2678496	Headphones jack	J701	2677593	Headphones jack
MD101	2425731	Tuner pack [for ZS]	MD101		Misprint of parts number

Modifications of the HTY-3300DH/3600DH mechanism
Modifications du mécanism HTY-3300DH/3600DH

After change			Before change		
SYMBOL No.	PART No.	DESCRIPTION	SYMBOL No.	PART No.	DESCRIPTION
		CABINET CHASSIS			
28	2589345	HTY-3602DH cassette mecha assy (TAPE 2)	28	2589341	HT-3600DH cassette mecha assy (TAPE 2)
31	2589346	HTY-3302DH cassette mecha assy (TAPE 1)	31	2589342	HT-3300 cassette mecha assy (TAPE 1)
		CASSETTE CHASSIS			
3	4846832	Mechanism base assy	3	4846831	Mechanism base assy
33	4846742	PLAY gear arm	33	4846741	PLAY gear arm
52	4845942	P roller RA spring	52	4845941	P roller RA spring

There is interchangeability between parts before and after the modification for the parts mentioned above. However, the Mechanism base assy and the PLAY gear arm should be replaced together.

L'interchangeabilité des pièces, avant et aprés madification, est maintenue pour les pièces mentionnées ci-dessus. Cependant le "Mechanism base assy" et le "PLAY gear arm" doivent toujours être remplacés ensemble.

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