



Clarion Co., Ltd.

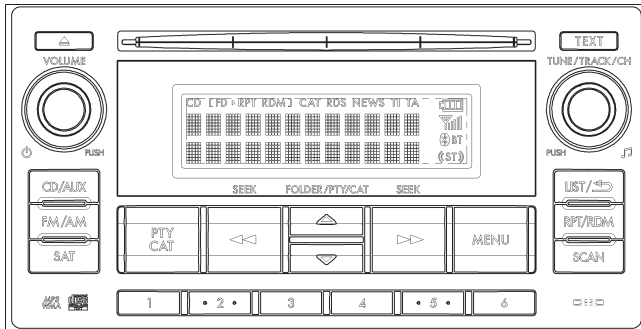
7-2, Shintoshin, Chuo-ku, Saitama-shi, Saitama 330-0081 Japan
 Service Dept.: 7-2, Shintoshin, Chuo-ku, Saitama-shi 330-0081 Japan
 Tel: +81-48-601-3705 FAX: +81-48-601-3804

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Service Manual



SUBARU Genuine
 FM/AM Radio Tuner
 1CD/MP3/WMA Player

Model **PF-3386A-A**
 (Genuine No. 86201F J620)
 (ID No. CM621UB)

LF

This product is a lead free model.

Lead free solder is used in PWB stamped LF mark.

Please keep the following conditions when you repair.

1. Use lead free solder.
 - * Koki's lead free solder S3X-55M 0.6mm (CLARION Parts No.642-0231-01)
 - * Koki's lead free solder S3X-55M 1.0mm (CLARION Parts No.642-0231-02)
2. Use a nitrogen solder system.
3. Do not use "General solder" and "Lead free solder" together.

1CD MECHANISM MODULE

Please refer to the service manual for 929-5036-80.

Mechanism No.	Manual No.
929-5036-80	298-6963-00

NOTES

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- * Specification and design are subject to change without notice for further improvement.

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To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc. is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots. If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

- ## 5. Cautions in soldering

Please do not spread liquid flux in soldering.

Please do not wash the soldering point after soldering.

- ## 6. Cautions in soldering for chip capacitors

Please solder the chip capacitors after pre-heating for replacement because they are very weak to heat.

Please do not heat the chip capacitors with a soldering iron directly.

- ## 7. Cautions in handling for chip parts.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc).

Please make an operation test after replacement.

- ## 8. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

9. Turn the unit OFF during disassembly and parts replacement.
Recheck all work before you apply power to the unit.

Cautions in checking that the optical pickup lights up.

The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical

diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

- ## 11. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

- ### 11-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

- ## 11-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

- ### 11-3. Cleaning the lens

Dust on the optical lens affects performance.

To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

CAUTION

Use of controls, adjustment, or performance of procedures other than those specified herein, may result in hazardous radiation exposure.

The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.

Clarion SUBARU

PART NO. 86201FJ620

MODEL NO. PF-3386A-A

12V NEG.GND.

AM: 530-1710 kHz

FREQUENCY RANGE: FM: 87.75-107.9MHz

MANUFACTURED: COE 0000000000 0000

Bluetooth QD ID: B016308

THIS DEVICE COMPLIES WITH PART 15 OF FCC RULES AND RSS-GEN OF IC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION OF THIS DEVICE.

THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003. Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.

THIS DEVICE COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE.

FCC ID: AX2PF3292

IC: 419C-PF3292

THIS PRODUCT INCLUDES TECHNOLOGY OWNED BY MICROSOFT CORPORATION AND CANNOT BE USED OR DISTRIBUTED WITHOUT A LICENSE FROM MSLGP.

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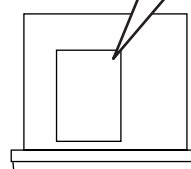
MADE IN CHINA

SERIAL NO.

PF3386AA 0000000

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Setplate

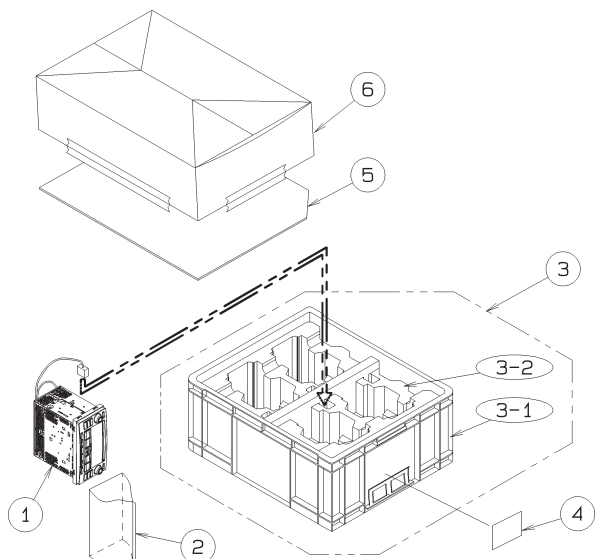


Top view of unit

COMPONENTS

PF-3386A-A

1.	Main unit	-----	1
2.	Poly bag	-----	1
3.	Container ASSY	-----	1/4
3-1.	Container	-----	1
3-2.	Packing	-----	1
4.	Label	-----	1/4
5.	Inner carton	-----	1/4
6.	Poly bag	-----	1/4



SPECIFICATION

SPECIFICATION ITEM	P. 1/9	(COVER)
	P. 2/9	MW
	P. 3/9	FM
	P. 4/9	CD
	P. 5/9	USB/iPod
	P. 6/9	AUX/ OTHER
	P. 7/9	Bluetooth(1)
	P. 8/9	Bluetooth(2)
	P. 9/9	Terminal connection
	P. /	
	P. /	
	P. /	
External unit	ECU UNIT	: SUBARU
	Steering wheel remote	: SUBARU
	USB/iPod	:
	AUX Audio unit	:
	Bluetooth unit	:
	Hedia Hub	: Dice
	SIRIUS-TUNER B/B	: EF-1327A-B
	XM-TUNER B/B	: EF-1247S-C
BU Current	less than 1.0mA	at 13.2V (after 60 sec.) JT
DC Offset voltage	All ch output : less than 150mV (load 4Ω)	Circuit for protection of damaging by a fire of SP(Soft)
CLOCK	—	Clock accuracy ± (S)
Tuner	[AM/FM]	80-2091-EH
	[]	
	[]	
Mech	[New YAMATO]	929-5036-80
	[]	
Original	PF-3292A-A	
Remark	From the original model	
	① SVC function CAN->Speed Pulse	
	② BRIGHT function CAN->Vehicle signal	
	③ Change of characteristic of EQ/LOUD	
	④ Change of AM frequency response	
	⑤ Change of gain (Standard output VOL. 27 setp -> VOL.25 step)	

FUNCTION		LW MW		MODEL	PF-3386A-A				
No.	(JT)	ITEM	UNIT	SPEC		CONDITIONS			
1		•FREQUENCY RANGE	KHz	530 ~ 1710		AUTO(10)KHz STEP, MANU(10)KHz STEP			
2		•IF	MHz	10.7 ± 0.03					
3	JT	•QUIETING SENS.	dB μ V	less than	39	at (600)(1000)(1400)KHz, S/N=20dB			
4		•IMAGE REJECTION	dB	more than	40	at (1400)KHz			
5		•IF REJECTION	dB	more than	45	at (600)KHz			
6		•SELECTIVITY	dB	more than	40	at (1000)KHz, ±(10)KHz de-tune			
7		•PASSAGE BAND WIDTH	KHz	7 ± 3		at (1000)KHz, Output 6dB down			
8		AGC	dB	more than	40	at (1000)KHz, ANT.IN 74dB μ V, 10dB down			
9		•STRONG SIG. DISTORTION	%	less than	3	at (1000)KHz, ANT.IN 120dB μ V			
10		•OVER MOD. DISTORTION	%	less than		at ()KHz, ANT.IN 74dB μ V, 80% MOD.			
11		FREQ. RESPONSE	TONE POS. BASS/TREB	dB	CENTER	MAX	MIN	at (1000)KHz, ANT.IN 74dB μ V 0dB=(1.41)V	
					70 Hz	-14 ± 5	±		±
					1 KHz	0	±		±
					4 KHz	-18 ± 6	±		±
12		•MAX POWER	W/mV	more than		at ()KHz, ANT.IN 74dB μ V, VOL:MAX			
13		•QUIETING OUTPUT POWER	W/mV	more than		at ()KHz, ANT.IN 74dB μ V, DIST:()%			
14		AUTO STOP SENS.	DX	dB μ V	35 ± 6	at (600)(1000)(1400)KHz			
			LO		55 ± 8	DX-LO sens.difference more than 10dB			
15		S/N	dB	more than	45	at (600)(1000)(1400)KHz ANT.IN 74dB μ V, 0dB=(1.41)V			
16		MODE BALANCE	MW	dB	-15 ± 3	0dB=(1.41)V = VOL(25)STEP (CD) Standard			
			FM		-18 ± 3	MW : (1K) Hz 30%MOD, ANT.IN 74dB μ V			
			CD		0	FM : (1K) Hz 22.5KHzDEV, ANT.IN 55dB μ V			
			USB/iPod		0 ± 3	CD : (1K) Hz 0dB			
			AUX		-5 ± 3	USB/iPod : (1K) Hz 0dB			
			BUS		0 ± 3	AUX : (1K) Hz 650mV, AUX VOL=(25)STEP			
						BUS : (1K) Hz 1.2V			
17		•NOISE LEVEL -20dB μ V IN	dB	±		at ()KHz, ANT.IN 74dB μ V → -20dB μ V			
18		•STEREO SEPARATION	dB	more than		at ()KHz, PILOT:()%			
19		•AM-ST IND.SENS.	dB μ V	less than		at ()KHz, PILOT:()%			
•TEST CONDITIONS (UNLESS OTHERWISE SPEC.) SUPPLY VOLTAGE : 13.2V DUMMY ANTENNA : 80pF LOAD RESISTANCE : 4 Ω STANDARD OUTPUT POWER : 0.5W •TONE, BASS/TREB POSITION : CENTER •BALANCE POSITION : CENTER •FADER POSITION : CENTER •MODULATION FREQUENCY : 1KHz •PERCENT MODULATION RATE : 30%									
•NOTE AUTO LOUD OFF (POWER-ON 1ch+6ch+SOUND) EQ THROUGH MODE(POWER-OFF 3ch+6ch+SOUND)									

FUNCTION		FM		MODEL	PF-3386A-A				
No.	(JT)	ITEM		UNIT	SPEC			CONDITIONS	
1		•FREQUENCY RANGE		MHz	87.75 ~ 107.9			AUTO(200)KHz STEP, MANU(200)KHz STEP	
2		•IF		MHz	10.7 ± 0.03				
3	JT	•QUIETING SENS.		dB μ V	less than	15	at (87.9)(98.1)(107.9)MHz, S/N=30dB		
4		•IMAGE REJECTION		dB	more than	40	at (107.9)MHz		
5		•IF REJECTION		dB	more than	65	at (87.9)MHz		
6		•LIMITING SENS.		dB μ V	less than	23	at (98.1)MHz, ANT.IN 55dB μ V, 3dB down		
7		•STRONG SIG. DISTORTION		%	less than	2	at (98.1)MHz, ANT.IN 120dB μ V		
8		•OVER MOD. DISTORTION		%	less than		at ()MHz, ANT.IN 55dB μ V, MOD. 100%		
9		FREQ. RESPONSE	TONE POS. BASS/TREB	dB	CENTER	MAX	MIN	at (98.1)MHz, ANT.IN 55dB μ V 0dB=(1.41)V	
			70 Hz		-6 ± 4	±	±		
			1 KHz		0	±	±		
			7 KHz		-17 ± 5	±	±		
10		LOUD EFFECT	Hz	dB	more than			at ()MHz, ANT.IN 55dB μ V	
			Hz		more than			0dB=()V	
11		•MAX POWER		W/mV	more than			at ()MHz, ANT.IN 55dB μ V, VOL:MAX	
12		•QUIETING OUTPUT POWER		W/mV	more than			at ()MHz, ANT.IN 55dB μ V, DIST:()%	
13		•STEREO SEPARATION		dB	more than	15	at (98.1)MHz, ANT.IN 65dB μ V		
14		•ST-IND SENS.		dB μ V	less than	15	at (98.1)MHz, NO MODULATION		
15		•SASC SENS.		dB μ V	40	±	5	at (98.1)MHz, MOD. 7KHz, ANT.IN 65dB μ V -(1)dB POINT	
16		•VOLUME TRACKING		dB	less than	3	at (98.1)MHz, ANT.IN 55dB μ V, 0dB=(1.41)V		
17		AUTO STOP SENS.	DX	dB μ V	29	±	6	at (87.9)(98.1)(107.9)MHz	
			LO			±	DX-LO sens.difference more than 10dB		
18		S/N		dB	more than	50	at (87.9)(98.1)(107.9)MHz ANT.IN 55dB μ V, 0dB=(1.41)V		
19		•NOISE LEVEL -20dB μ V IN		dB	-12	±	6	at (98.1)MHz, ANT.IN 55dB μ V → -20dB μ V	
•TEST CONDITIONS (UNLESS OTHERWISE SPEC.) •SUPPLY VOLTAGE : 13.2V •DUMMY ANTENNA : 75Ω •LOAD RESISTANCE : 4Ω •STANDARD OUTPUT POWER : 0.5W •TONE, BASS/TREB POSITION : CENTER •BALANCE POSITION : CENTER •FADER POSITION : CENTER •MODULATION FREQUENCY : 1KHz •PERCENT MODULATION RATE MONO 22.5 KHz DEV. ST L+R 20.25 KHz DEV. PILOT 7.5 KHz DEV.									
•NOTE AUTO LOUD OFF(POWER-ON 1ch+6ch+SOUND) EQ THROGH MODE(POWER-OFF 3ch+6ch+SOUND)									

FUNCTION		CD		MODEL	PF-3386A-A			
No.	(JT)	ITEM		UNIT	SPEC		CONDITIONS	
1		MAX POWER		W	more than	16	1KHz (2)TRACK, VOL:MAX	
2		INNER NOISE		mV	less than		-∞ ()TRACK, VOL:MAX	
3		RESIDUAL OUTPUT		mV	less than		1KHz ()TRACK, VOL:MIN/MIN+1step	
4		FREQUENCY RESPONSE	17 Hz		-3 ±	3	0dB=(1.41)V, 1KHz(2)TRACK	
			20 KHz		-1 ±	3	(17)Hz(3)TRACK P.TIME(: ~ :) (20K)Hz(7)TRACK P.TIME(: ~ :)	
5		TONE CONTROL	Hz	dB	BOOST ±		0dB=()V	
			Hz		CUT ±		()Hz()TRACK P.TIME(: ~ :) ()Hz()TRACK P.TIME(: ~ :)	
			Hz		BOOST ±			
			Hz		CUT ±			
6		LOUD EFFECT	Hz		more than		0dB=()V	
			Hz		more than		()Hz()TRACK P.TIME(: ~ :) ()Hz()TRACK P.TIME(: ~ :)	
7	JT	DISTORTION		%	less than	1.0	1KHz (2)TRACK	20KHz LPF
8		S/N		dB	more than	70	1KHz (2)TRACK	20KHz LPF (JIS -A)
					more than	→ -∞ (8)TRACK	No Filter	
9		SEPARATION		dB	more than	55	1KHz(9)TRACK/(11)TRACK	20KHz LPF
10		DYNAMIC RANGE		dB	more than		1KHz ()TRACK → 1KHz ()TRACK	20KHz LPF with total harmonic distortion meter
11		DE-EMPHASIS		dB		±	1kHz ()TRACK P.TIME(: ~ :) →16kHz()TRACK P.TIME(: ~ :)	
12		LINE OUT		mV	more than		1KHz ()TRACK, VOL:MAX	
13		SHORT ACCESS		S	less than	2.0	(1)TRACK→(2)TRACK DISC(TCD-782)	
14		LONG ACCESS		S	less than	4.5	(23)TRACK→(1)TRACK DISC(TCD-782)	
15		DISC CHANGE TIME		S	less than		DISC No.1 ()TRACK → DISC No.6 ()TRACK	
16		DISC CHANGE TIME		S	less than		MAGAZINE IN → DISC No.1 ()TRACK	
17		SERVO	ECCENTRIC CHECK SCRATCH CHECK VERTICAL DEVIATION CHECK	—	No Malfunction		A-BEX TCD-711R 70μm 1-TRACK A-BEX TCD-721R 0.6mm 3-TRACK A-BEX TCD-731R 1.0mm 15-TRACK	
18		QUIETING OUTPUT POWER		W	more than	12	1KHz (2)TRACK, DIST:(10)%	
19	JT	MP3 DISTORTION		%	less than	1.0	1KHz (3)FOLDER,(2)TRACK	20KHz LPF
•TEST CONDITIONS (UNLESS OTHERWISE SPEC.) • SUPPLY VOLTAGE : 13.2V • LOAD RESISTANCE : 4Ω • STANDARD OUTPUT POWER : 1.41V •TONE, BASS/TREB POSITION : CENTER •BALANCE POSITION : CENTER •FADER POSITION : CENTER •DISC : TCD-782 •DISC (MP3) : SCD-5606								
•NOTE AUTO LOUD OFF(POWER-ON 1ch+6ch+SOUND) EQ THROGH MODE(POWER-OFF 3ch+6ch+SOUND)								

FUNCTION		AUX/OTHER		MODEL		PF-3386A-A			
No.	(JT)	ITEM		UNIT	SPEC		CONDITIONS		
AUX									
1		AUX FREQUENCY RESPONSE	17 Hz	dB	-3 ± 3	INPUT(1k)Hz, (650m)V 0dB=(1.41)V			
			20 KHz		-1 ± 3				
2		AUX DISTORTION		%	less than 1.0		Push CD/AUX KEY -> AUX mode Release of AUX-MUTE: Connent AUX-ON terminal to GND		20KHz LPF
3		AUX S/N		dB	more than 70				JIS-A
4		AUX SEPARATION		dB	more than 55				20KHz LPF
OTHER									
5		BEEP OUTPUT LEVEL		mVp-p	180 ± 3dB		CD:INPUT(-∞)(8)TRACK Output : only FRONT Measure BEEP level while pushing FF key. With storage oscilloscope:PEAK-DET		
6		TONE CONTROL	TONE POS. BASS/TREB	dB	CUT	FLAT	BOOST	SIE-BUS:INPUT(1K)Hz, (1.2)V 0dB=(0.245)V	
			100 Hz		-12 ± 3	0 ± 3	12 ± 3		
			1 KHz		-12 ± 3	0	12 ± 3		
			10 KHz		-12 ± 3	0 ± 3	12 ± 3		
7		LOUD EFFECT	40 Hz	dB	11 ± 3		SIE-BUS:INPUT(1K)Hz, (1.2)V 0dB=VOL-(14)STEP		
			20 KHz		7 ± 3				
8		Fix-EQ	FRONT	dB	80Hz	6 ± 3	SIE-BUS:INPUT(1K)Hz, (1.2)V 0dB=(1.41)V FRONT-Lch 1KHz standard Measure FRONT-Lch/Rch, REAR-Lch/Rch		
					250Hz	-6 ± 3			
					1KHz	0 ± 3			
					6.5KHz	-10 ± 3			
					10KHz	-10 ± 3			
			REAR		130Hz	-4 ± 3			
					420Hz	-9 ± 3			
					1KHz	-3.5 ± 3			
					5.2KHz	8 ± 3			
					10KHz	7 ± 3			

FUNCTION		Bluetooth(1)		MODEL		PF-3386A-A	
No.	(JT)	ITEM	UNIT	SPEC		CONDITIONS	
RF section							
1		Transmitting power	dBm	-1	± 5	Measurement CH:39CH Link:TestMode PacketType:DH5	
2		Frequency deviation	kHz	±	75	Measurement CH:39CH Link:TestMode PacketType:DH5	
3		Reception sensitivity(BER)	dBm	less than	-73	@BER0.1% Measurement CH:39CH Link:TestMode PacketType:DH5	
Receiving audio section							
4		Output audio level	mV	2000	± 500	INPUT TESTER SOC 1KHz 340mV vol11 Link:SCO PacketType:HV3 AirCode:CVSD	
5	Frequency response	300Hz	dB	-1	± 3	INPUT TESTER SOC 1KHz 340mV vol11 Link:SCO PacketType:HV3 AirCode:CVSD	
		3KHz	dB	-5	± 3		
6		Distortion	%	less than	5.0	INPUT TESTER SOC 1KHz 340mV vol11 Link:SCO PacketType:HV3 AirCode:CVSD	
7		S/N	dB	more than	45	INPUT TESTER SOC 1KHz 340mV JIS-A vol11 Link:SCO PacketType:HV3 AirCode:CVSD	
Transmission audio section							
8		Output audio level	mV	270	± 100	INPUT MIC terminal 1KHz 340mV Link:SCO PacketType:HV3 AirCode:CVSD	
9	Frequency response	300Hz	dB	-2	± 3	INPUT MIC terminal 1KHz 340mV Link:SCO PacketType:HV3 AirCode:CVSD	
		3KHz	dB	-7	± 3		
10		Distortion	%	less than	5.0 以下	INPUT MIC terminal 1KHz 340mV Link:SCO PacketType:HV3 AirCode:CVSD	
11		S/N	dB	more than	45 以上	INPUT MIC terminal 1KHz 340mV JIS-A Link:SCO PacketType:HV3 AirCode:CVSD	
•TEST CONDITIONS (UNLESS OTHERWISE SPEC.) • SUPPLY VOLTAGE : (13.2)V • LOAD RESISTANCE : (4)Ω RF section : Measure it at BTT54[DUT mode]. Measure it while radiated from the antenna. (Use shield box WAB-1280C or WAB4351C.) Receiving / Transmission audio section Measure it at BTT51[HF audio test mode]. *EQ-OFF Receiving audio : Measure output of Front Left SP. Transmission audio : Measure it with output of tester SCO. Use the tester of ANRITSU MT8852A. (OFFSET: WAB-1280C -34dB, WAB-4351C -23dB. The distance of the reference antenna and the set is 36cm.) (Receiving / Transmission audio section:RF output level -60dBm) The direction of the reference antenna of the shield box is the horizontal.							
•NOTE							

FUNCTION		Bluetooth(2)		MODEL	PF-3386A-A				
No.	(JT)	ITEM		単位 UNIT	SPEC		CONDITIONS		
Music transmission(A2DP)									
1		Output level		dB	0	±	3	CD : (1) KHz (2) TRACK, VOL (25) STEP standard PC : (1) KHz (2) TRACK	
2		S/N		dB	more than	70		PC : (1) KHz (2) TRACK → -∞ (8) TRACK 20KHz LPF	
3		Frequency response	17	Hz	dB	-3	±	3	PC : (1) KHz (2) TRACK standard (17) Hz (3) TRACK (20K) Hz (7) TRACK
			20	KHz	dB	-1	±	3	
4		Distortion		%	less than	1.0		PC : (1) KHz (2) TRACK 20KHz LPF	
5		Separation		dB	more than	55		PC : (1) KHz (9) TRACK / (1) KHz (11) TRACK 20KHz LPF	

•TEST CONDITIONS (UNLESS OTHERWISE SPEC.)

•SUPPLY VOLTAGE : 13.2V

•LOAD RESISTANCE : 4Ω

•STANDARD OUTPUT POWER : 1.41V

•TONE, BASS/TREB POSITION : CENTER

•BALANCE POSITION : CENTER

•FADER POSITION : CENTER

•DISC (MP3) : SCD-5606

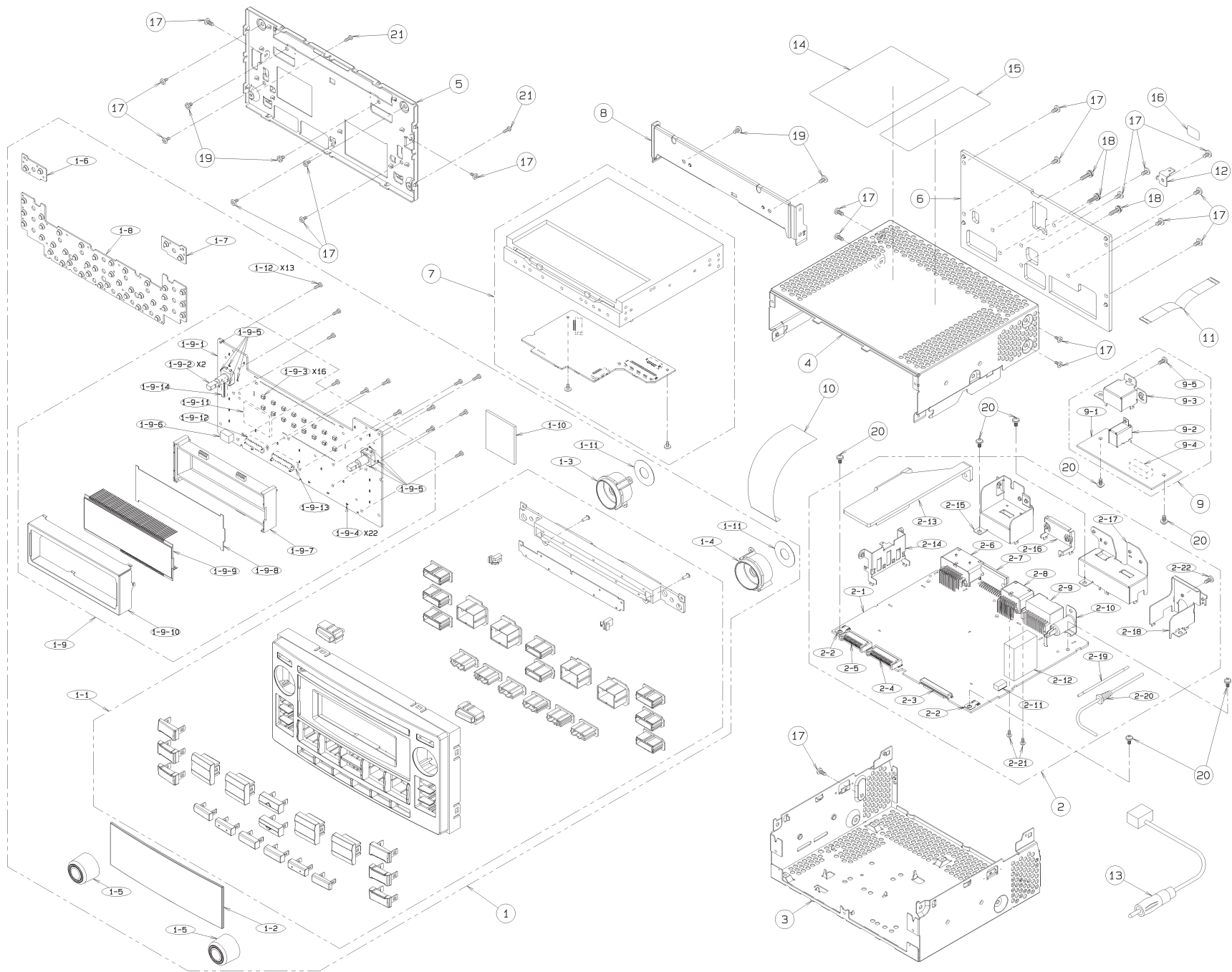
•PC VOL : MAX

Music transmission(A2DP) : Play SCD-5606 by PC, and measure it with Bluetooth transmitter.

•NOTE AUTO LOUD OFF(POWER-ON 1ch+6ch+SOUND)
EQ THROUGH MODE(POWER-OFF 3ch+6ch+SOUND)

FUNCTION	TERMINAL CONNECTION	MODEL	PF-3386A-A			
Vehicle connector			1	ILL+	11	BRIGHT
			2	ILL-	12	N.C
			3	ACC	13	S.R+2
			4	S.R+1	14	S.R-
			5	REAR-Lch(-)	15	REAR-Rch(-)
			6	REAR-Lch(+)	16	REAR-Rch(+)
			7	FRONT-Lch(-)	17	FRONT-Rch(-)
			8	FRONT-Lch(+)	18	FRONT-Rch(+)
			9	ANT-ON	19	SPEED PULSE
			10	GND	20	B/U
9 8 7 6 5 4 3 2 1 20 19 18 17 16 15 14 13 12 11 10						
AUX/MIC connector			1	MIC-IN	9	MIC-GND
			2	MIC+B	10	MIC-DET
			3	AUX-L(+)	11	AUX-LR(-)
			4	AUX-R(+)	12	AUX-ON
			5	N.C.(SUBW-CONT)	13	N.C.(SUBW-SHIELD)
			6	N.C.(SUBW(+))	14	N.C.(SUBW(-))
			7	MIC-SHIELD	15	N.C.
			8	N.C.	16	N.C.
8 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9						
SIE-BUS connector			1	NAVI(+)	11	NAVI(-)
			2	AUDIO-L(+)	12	AUDIO-LR(-)
			3	AUDIO-R(+)	13	N.C.
			4	N.C.	14	N.C.
			5	N.C.	15	N.C.
			6	BUS-ON	16	N.C.
			7	MUTE	17	RESET
			8	BUS(-)	18	BUS-GND
			9	BUS(+)	19	GND
			10	B/U	20	BUS-OFF
10 9 8 7 6 5 4 3 2 1 20 19 18 17 16 15 14 13 12 11						
USB connector			1	GND		
			2	VBUS+5V		
			3	DATA(+)		
			4	DATA(-)		
2 1 4 3						

EXPLODED VIEW / PARTS LIST



Oct.13.2011

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	-----	PANEL-ASSY	1	2-10	092-0702-50	ANT-RECEPT	1
1-1	940-8613-31	ESCUTCHEON-ASSY	1	2-11	076-0478-59	PLUG(9P)	1
1-2	373-1194-10	DIAL-CVR	1	2-12	880-2091E	TUNER	1
1-3	335-8802-00	ILLUMI RING(L)	1	2-13	313-2019-10	SUB HEAT SINK	1
1-4	335-8831-00	ILLUMI RING(R)	1	2-14	331-4414-00	TR HOLDER	1
1-5	380-5771-00	KNOB	2	2-15	331-4913-00	OUTLET HOLDER	1
1-6	345-6424-00	RUBBER SW(UP-L)	1	2-16	331-4678-00	IC-HOLDER	1
1-7	345-6426-00	RUBBER SW(UP-R)	1	2-17	331-4914-00	OUTLET HOLDER	1
1-8	345-6425-00	RUBBER SW(MID)	1	2-18	331-4915-00	OUTLET HOLDER	1
1-9	-----	SW-PWB-ASSY(3386A7-77)	1	2-19	800-0205-00	VINYL-COAT-WIRE	1
1-9-1	-----	SW-PWB(387500-039)	1	2-20	854-7862-50	EXTENSION LEAD	1
1-9-2	016-0018-24	VR W/SHAFT	2	2-21	778-3006-00	TAP-SCREW	2
1-9-3	001-7140-90	DIODE(WHITE)	16	2-22	714-2606-8B	MACHINE SCREW	1
1-9-4	001-7141-90	DIODE(RED)	22	3	311-1996-01	LOWER CASE	1
1-9-5	001-7094-92	DIODE(RED)	8	4	310-1920-01	UPPER CASE	1
1-9-6	060-8094-50	CERAMIC-ANT	1	5	309-1910-00	ES-PLATE	1
1-9-7	335-8827-00	LCD HOLDER	1	6	313-2096-00	HEAT SINK	1
1-9-8	335-8828-00	FILTER	1	7	929-5036-80	CD-MECH-MODULE	1
1-9-9	379-1450-63	LCD	1	8	331-4916-00	MECH-BRKT	1
1-9-10	331-4918-00	LCD-CVR	1	9	-----	SUB-PWB-ASSY(3293AH-79)	1
1-9-11	060-8120-92	BLUETOOTH MODUL	1	9-1		SUB-PWB(367401-039)	1
1-9-12	074-3055-20	OUTLET SOCKET(20P)	1	9-2	074-4049-50	OUTLET SOCKET	1
1-9-13	074-3055-24	OUTLET SOCKET(24P)	1	9-3	331-4917-00	OUTLET HOLDER	1
1-9-14	076-6000-65	PLUG(15P)	1	9-4	074-2506-10	OUTLET SOCKET	1
1-10	345-6488-00	PROTECTOR	1	9-5	714-2606-8B	MACHINE SCREW	1
1-11	347-8873-00	SHADE	2	10	816-4069-50	FLAT WIRE	1
1-12	716-0778-52	SPECIAL SCREW(2x8 TAP)	13	11	816-4068-50	FLAT WIRE	1
2	-----	MAIN-PWB-ASSY(3386A7-75)	1	12	331-3579-20	EARTH PLATE	1
2-1	-----	MAIN PWB(375400-039)	1	13	093-2195-00	ANT-JUMPER	1
2-2	073-0762-90	TERMINAL	2	14	276-0903-01	SETPLATE	1
2-3	074-2506-30	OUTLET SOCKET	1	15	290-0623-03	LABEL	1
2-4	076-3011-74	PLUG(24P)	1	16	290-0548-14	LABEL(QR-CODE)	1
2-5	076-3011-70	PLUG(20P)	1	17	714-2606-8B	MACHINE SCREW	20
2-6	074-4009-20	OUTLET SOCKET(TH18+2)	1	18	735-2614-1B	D-SEMS SCREW	3
2-7	051-2064-00	POWER IC	1	19	714-2603-89	MACHINE SCREW	4
2-8	074-1302-16	OUTLET SOCKET(TH16)	1	20	716-0878-50	SPECIAL SCREW(M2.6x5 IT)	7
2-9	074-0895-20	OUTLET SOCKET	1	21	716-0778-52	SPECIAL SCREW(2x8 TAP)	2

ELECTRICAL PARTS LIST

MAIN PWB(B1) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
ANT101	092-0702-50	ANT-RECEPT	C267	168-1042-78	16V 0.1uF K	C416	165-4763-15	6.3V 47uF
BL101	880-2091E	TUNER	C268	168-1042-78	16V 0.1uF K	C501	168-1042-78	16V 0.1uF K
C105	166-8201-50	82pF CH	C269	168-1042-78	16V 0.1uF K	C502	168-4722-55	4700pF K
C110	166-2201-50	22pF CH	C272	168-1022-55	1000pF K	C503	168-1042-78	16V 0.1uF K
C114	168-1042-78	16V 0.1uF K	C273	168-1022-55	1000pF K	C504	043-0603-90	16V 10uF
C115	165-1073-35	16V 100uF	C274	168-1022-55	1000pF K	C505	168-1042-78	16V 0.1uF K
C116	168-1022-55	1000pF K	C275	168-1022-55	1000pF K	C506	168-1052-78	16V 1uF K
C118	168-1022-55	1000pF K	C277	042-0643-58	6.3V 330uF	C508	043-0603-90	16V 10uF
C119	168-1022-55	1000pF K	C279	168-1042-78	16V 0.1uF K	C509	168-1042-78	16V 0.1uF K
C120	168-1042-78	16V 0.1uF K	C280	166-6811-50	680pF CH	C510	043-0603-90	16V 10uF
C121	165-1073-35	16V 100uF	C281	166-6811-50	680pF CH	C511	168-1052-78	16V 1uF K
C122	168-1042-78	16V 0.1uF K	C282	166-6811-50	680pF CH	C512	168-1022-55	1000pF K
C123	168-3342-58	0.33uF K	C283	166-6811-50	680pF CH	C513	042-1769-90	6.3V 220uF M
C201	178-2255-79	2.2uF	C284	042-1769-90	6.3V 220uF M	C514	043-0554-90	25V 10uF
C202	178-2255-79	2.2uF	C285	168-1042-78	16V 0.1uF K	C515	168-1042-78	16V 0.1uF K
C203	178-2255-79	2.2uF	C287	168-1022-55	1000pF K	C516	168-1042-78	16V 0.1uF K
C204	178-2255-79	2.2uF	C288	168-3342-58	0.33uF K	C517	168-3342-58	0.33uF K
C205	178-2255-79	2.2uF	C291	168-2212-55	220pF K	C518	168-1042-78	16V 0.1uF K
C206	178-2255-79	2.2uF	C292	168-1022-55	1000pF K	C519	166-1501-50	15pF CH
C207	178-2255-79	2.2uF	C301	168-1042-78	16V 0.1uF K	C520	165-4763-15	6.3V 47uF
C208	178-2255-79	2.2uF	C302	165-1073-35	16V 100uF	C521	042-1769-90	6.3V 220uF M
C209	178-1052-78	25V 1uF	C303	165-1073-35	16V 100uF	C522	168-1042-78	16V 0.1uF K
C210	178-1052-78	25V 1uF	C304	168-2732-55	16V 0.027uF K	C523	168-1042-78	16V 0.1uF K
C212	168-1042-78	16V 0.1uF K	C305	168-2732-55	16V 0.027uF K	C524	168-1052-78	16V 1uF K
C213	165-4753-55	35V 4.7uF	C306	168-2732-55	16V 0.027uF K	C525	168-1022-55	1000pF K
C214	168-1042-78	16V 0.1uF K	C307	168-2732-55	16V 0.027uF K	C526	168-1022-55	1000pF K
C215	168-1042-78	16V 0.1uF K	C308	168-1042-78	16V 0.1uF K	C527	168-1042-78	16V 0.1uF K
C216	168-1042-78	16V 0.1uF K	C311	166-5611-50	560pF CH	C528	168-3342-58	0.33uF K
C217	166-1007-50	10pF CH	C312	166-5611-50	560pF CH	C529	165-1073-35	16V 100uF
C218	166-1201-50	12pF CH	C313	166-2711-50	270pF CH	C531	168-1022-55	1000pF K
C219	168-1042-78	16V 0.1uF K	C315	166-2711-50	270pF CH	C601	165-4763-15	6.3V 47uF
C220	166-2201-50	22pF CH	C316	166-2201-50	22pF CH	C602	168-1042-78	16V 0.1uF K
C221	166-2201-50	22pF CH	C317	166-2201-50	22pF CH	C603	168-1022-55	1000pF K
C222	166-2201-50	22pF CH	C319	168-1042-78	16V 0.1uF K	C604	168-1042-38	50V 0.1uF K
C223	166-2201-50	22pF CH	C320	165-1073-35	16V 100uF	C605	043-0602-90	10uF
C224	166-2201-50	22pF CH	C321	166-2201-50	22pF CH	C606	165-1073-35	16V 100uF
C225	166-2201-50	22pF CH	C322	166-2201-50	22pF CH	C607	166-1501-50	15pF CH
C226	166-2201-50	22pF CH	C325	165-1073-35	16V 100uF	C608	168-1042-78	16V 0.1uF K
C227	166-2201-50	22pF CH	C328	166-5611-50	560pF CH	C609	166-3311-50	330pF CH
C228	166-2201-50	22pF CH	C331	166-5611-50	560pF CH	C610	166-4701-50	47pF CH
C229	166-2201-50	22pF CH	C332	166-2711-50	270pF CH	C612	165-1053-65	50V 1uF
C232	168-1022-55	1000pF K	C334	166-2711-50	270pF CH	C613	043-0542-00	25V 4.7uF
C233	168-1022-55	1000pF K	C353	168-2242-58	0.22uF K	C614	165-4763-15	6.3V 47uF
C234	168-1042-78	16V 0.1uF K	C354	168-2242-58	0.22uF K	C615	168-4742-78	0.47uF K
C235	165-4753-55	35V 4.7uF	C355	168-2242-58	0.22uF K	C616	168-1042-78	16V 0.1uF K
C236	168-1042-78	16V 0.1uF K	C356	168-2242-58	0.22uF K	C617	168-1022-55	1000pF K
C237	165-4753-55	35V 4.7uF	C357	168-1052-78	16V 1uF K	C618	168-1042-78	16V 0.1uF K
C238	168-5622-55	5600pF K	C358	166-1011-50	100pF CH	C619	168-1042-38	50V 0.1uF K
C239	168-5622-55	5600pF K	C359	166-1011-50	100pF CH	C620	165-1063-35	16V 10uF
C240	166-2201-50	22pF CH	C360	165-1063-35	16V 10uF	C621	165-1073-15	6.3V 100uF
C241	166-2201-50	22pF CH	C361	166-2201-50	22pF CH	C622	168-1042-78	16V 0.1uF K
C244	168-1042-78	16V 0.1uF K	C362	166-2201-50	22pF CH	C623	168-3342-58	0.33uF K
C245	178-1052-78	25V 1uF	C363	166-2201-50	22pF CH	C624	165-4763-15	6.3V 47uF
C246	178-1052-78	25V 1uF	C364	166-2201-50	22pF CH	C625	168-1042-78	16V 0.1uF K
C248	042-1769-90	6.3V 220uF M	C365	166-1011-50	100pF CH	C626	165-1073-35	16V 100uF
C250	165-2263-35	16V 22uF	C366	166-1011-50	100pF CH	C627	168-1042-78	16V 0.1uF K
C251	168-1042-78	16V 0.1uF K	C367	168-1052-78	16V 1uF K	C628	168-1042-78	16V 0.1uF K
C252	042-1769-90	6.3V 220uF M	C368	168-1052-78	16V 1uF K	C630	168-1042-38	50V 0.1uF K
C253	168-1042-78	16V 0.1uF K	C401	168-1032-55	0.01uF K	C631	165-4763-35	16V 47uF
C254	165-4753-55	35V 4.7uF	C402	168-1042-78	16V 0.1uF K	C633	165-1073-35	16V 100uF
C255	043-0552-90	6.3V 47uF M	C403	168-4752-98	4.7uF K	C634	168-1042-78	16V 0.1uF K
C256	168-1042-78	16V 0.1uF K	C404	165-1073-35	16V 100uF	C635	168-1042-38	50V 0.1uF K
C257	168-1042-78	16V 0.1uF K	C405	168-1032-55	0.01uF K	C636	165-1073-35	16V 100uF
C258	043-0552-90	6.3V 47uF M	C406	168-1032-55	0.01uF K	C637	043-8000-90	50V 0.1uF
C259	168-1042-78	16V 0.1uF K	C407	166-1007-50	10pF CH	C638	189-4783-12	6.3V 4700uF
C260	168-1052-78	16V 1uF K	C408	166-1007-50	10pF CH	C701	166-1007-50	10pF CH
C261	168-1042-78	16V 0.1uF K	C410	168-1042-78	16V 0.1uF K	C702	166-1007-50	10pF CH
C262	168-1042-78	16V 0.1uF K	C411	168-6822-55	6800pF K	C703	166-1007-50	10pF CH
C264	168-1042-78	16V 0.1uF K	C412	168-1032-55	0.01uF K	C704	166-1007-50	10pF CH
C265	168-1022-55	1000pF K	C413	168-1032-55	0.01uF K	C705	166-1007-50	10pF CH
C266	168-1042-78	16V 0.1uF K	C415	168-1042-78	16V 0.1uF K	C706	166-1007-50	10pF CH

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C707	166-1007-50	10pF CH	IC201	-----	SAF7730HV/N332 (DSP)	L303	010-3104-54	600 ohm/100MHz
C708	166-1007-50	10pF CH			(Solder pad type)	L401	010-3407-66	22uH J
C709	043-8000-90	50V 0.1uF			(670650-051)	L402	010-3406-54	2.2uH J
C710	166-1007-50	10pF CH	IC204	051-3396-90	NJM2386ADL3-33-TE 1	L501	010-3100-68	3.3uH J
C711	166-1007-50	10pF CH				L502	010-3104-54	600 ohm/100MHz
C801	168-1042-78	16V 0.1uF K	IC301	051-3034-90	NJM4558V	L601	010-3108-53	330 ohm/100MHz
C804	168-1022-55	1000pF K	IC302	051-3019-90	NJM2060V	L602	010-3057-93	4.2uH
C806	168-1042-78	16V 0.1uF K	IC305	051-2064-00	TB2926HQ	L805	010-8026-00	210uH
C807	168-1032-55	0.01uF K	IC306	051-3019-90	NJM2060V	P401	076-0478-59	9P
C812	166-1007-50	10pF CH	IC401	-----	R5F64167PFB	Q104	192-4116-51	2SC4116 G,L
C813	165-1063-35	16V 10uF			(Software should be written on production)	Q201	125-7007-90	Si5441BDC-TI-E3
C814	043-8000-90	50V 0.1uF			(FLASH-MICON)	Q401	192-4116-51	2SC4116 G,L
C815	166-1007-50	10pF CH	IC402	051-5481-90	S-1009N30I-M5T1U	Q402	192-4116-51	2SC4116 G,L
C816	165-1053-65	50V 1uF	IC403	-----	S-24C16CI-T8T5U3	Q501	125-0021-91	DTA114EUA
C817	043-8000-90	50V 0.1uF			(Software should be written on production)	Q602	191-1197-50	2SB1197K Q,R
C818	042-1624-00	16V 4700uF			(E2P-ROM)	Q603	192-4116-51	2SC4116 G,L
C819	165-1063-35	16V 10uF			(942650-051)	Q604	191-1197-50	2SB1197K Q,R
C820	165-1073-35	16V 100uF	IC404	051-5441-08	BD4828G-TR	Q605	192-4116-51	2SC4116 G,L
C821	165-1063-35	16V 10uF	IC405	051-6600-58	HA12187FP	Q701	190-1586-00	2SA1586 O,Y,G
C824	166-1011-50	100pF CH	IC501	-----	AK4633VN	Q702	125-2027-91	DTC114EUA
C831	168-1042-78	16V 0.1uF K			(CODEC)	Q703	192-4116-51	2SC4116 G,L
C832	168-1022-55	1000pF K			(QFN-TYPE)	Q704	190-1586-00	2SA1586 O,Y,G
C833	168-1032-55	0.01uF K			(653190-051)	Q705	125-2027-91	DTC114EUA
C834	168-1042-78	16V 0.1uF K	IC502	051-3026-90	NJM4580V	Q706	192-4116-51	2SC4116 G,L
C835	168-1022-55	1000pF K	IC503	051-3718-90	NJM2864DL3-15	Q711	192-4116-51	2SC4116 G,L
C836	168-1042-78	16V 0.1uF K	IC504	051-3553-90	NJM2865F3-05	Q715	190-1586-00	2SA1586 O,Y,G
C837	042-4043-90	35V 4.7uF	IC505	051-3367-90	NJU7780U1-33-TE2	Q716	125-2027-91	DTC114EUA
C838	168-1022-55	1000pF K	IC506	051-3396-90	NJM2386ADL3-33-TE 1	Q801	192-4116-51	2SC4116 G,L
C839	165-1063-35	16V 10uF				Q804	125-2027-91	DTC114EUA
C840	168-1042-78	16V 0.1uF K	IC601	051-3333-00	NJM2396F05	Q805	190-1586-00	2SA1586 O,Y,G
C841	165-1073-35	16V 100uF	IC602	051-3397-90	NJM2386ADL3-09-TE 1	Q808	192-5810-00	2SC5810 TE12L
C843	168-1042-78	16V 0.1uF K				Q809	190-2071-00	2SA2071
CCT401	050-0140-54	1/32W 1k ohm x4J				Q810	192-4116-51	2SC4116 G,L
CCT402	050-0140-54	1/32W 1k ohm x4J	IC603	051-3616-90	LT3684EDD	Q811	125-0021-91	DTA114EUA
CCT403	050-0140-54	1/32W 1k ohm x4J	IC604	051-3333-00	NJM2396F05	Q812	125-2027-91	DTC114EUA
CCT404	050-0140-54	1/32W 1k ohm x4J	IC605	051-3719-90	NJM2886DL3-33	Q813	192-5886-00	2SC5886
D104	001-0516-90	MA111	IC606	051-3367-90	NJU7780U1-33-TE2	Q814	192-4116-51	2SC4116 G,L
D403	001-0535-90	MA729	IC607	051-3366-00	NJM2396F08	Q815	192-4116-51	2SC4116 G,L
D404	001-0516-90	MA111	IC608	051-3585-90	BD3571HFP	Q816	190-1586-00	2SA1586 O,Y,G
D405	001-4301-48	HZU 9.1B3	J401	076-3011-74	24P	Q817	125-0021-91	DTA114EUA
D406	001-4301-25	HZU4.7B1	J501	076-3011-70	20P	Q818	125-2027-91	DTC114EUA
D501	001-0516-90	MA111	J601	074-2506-30	30P	Q819	192-2873-00	2SC2873
D502	001-4320-50	EDZC6.8B	J701	074-0895-20	20P	Q820	192-2873-00	2SC2873
D602	001-2620-90	RB060L-40	J801	074-1302-16	16P	Q821	192-4116-51	2SC4116 G,L
D605	001-2403-90	M1F60	J802	074-4009-20	20P	Q822	190-2071-00	2SA2071
D701	001-4301-32	HZU 5.6B2	L103	010-2003-04	30uH	Q823	192-4116-51	2SC4116 G,L
D702	001-4301-32	HZU 5.6B2	L104	010-2279-50	4.7uH	Q824	192-4116-00	2SC4116
D705	001-4301-68	HZU18B1	L201	010-3104-54	600 ohm/100MHz	R101	119-0000-05	1/10W 0 ohm JW
D706	001-4301-68	HZU18B1	L202	010-3104-54	600 ohm/100MHz	R104	119-0000-05	1/10W 0 ohm JW
D801	001-2403-90	M1F60	L203	010-3104-54	600 ohm/100MHz	R109	119-0000-05	1/10W 0 ohm JW
D803	001-2403-90	M1F60	L204	010-3104-54	600 ohm/100MHz	R116	119-2741-15	1/10W 270k ohm
D804	001-4301-68	HZU18B1	L205	010-3104-54	600 ohm/100MHz	R117	033-1031-15	1/16W 10k ohm J
D807	001-4301-32	HZU 5.6B2	L206	010-3104-54	600 ohm/100MHz	R118	033-1031-15	1/16W 10k ohm J
D808	001-9210-50	AVR-M1608C270MTA AD	L207	010-3104-54	600 ohm/100MHz	R125	119-1011-15	1/10W 100 ohm
D810	001-0535-90	MA729	L208	010-3104-54	600 ohm/100MHz	R126	033-0000-05	1/16W 0 ohm
D811	001-0516-90	MA111	L209	010-3104-54	600 ohm/100MHz	R127	033-0000-05	1/16W 0 ohm
D812	001-9210-50	AVR-M1608C270MTA AD	L210	010-3104-54	600 ohm/100MHz	R128	119-1011-15	1/10W 100 ohm
D813	001-9210-50	AVR-M1608C270MTA AD	L211	010-3104-54	600 ohm/100MHz	R129	119-1011-15	1/10W 100 ohm
D814	001-9210-50	AVR-M1608C270MTA AD	L212	010-3104-54	600 ohm/100MHz	R130	033-0000-05	1/16W 0 ohm
D815	001-4301-46	HZU 9.1B1	L213	010-3104-54	600 ohm/100MHz	R131	033-0000-05	1/16W 0 ohm
D816	001-2403-90	M1F60	L214	010-3104-54	600 ohm/100MHz	R132	119-4731-15	1/10W 47k ohm
D817	001-4912-90	SM5S22A-HE3/2D	L215	010-3104-54	600 ohm/100MHz	R133	119-0000-05	1/10W 0 ohm JW
D818	001-2403-90	M1F60	L216	010-3104-54	600 ohm/100MHz	R201	119-1031-15	1/10W 10k ohm
D819	001-2403-90	M1F60	L217	010-3104-54	600 ohm/100MHz	R202	032-0140-51	1/10W 15k ohm F
D820	001-4301-44	HZU8.2B2	L218	010-3104-54	600 ohm/100MHz	R203	032-0140-51	1/10W 15k ohm F
D821	001-4301-32	HZU 5.6B2	L219	010-3104-54	600 ohm/100MHz	R204	032-0140-51	1/10W 15k ohm F
D822	001-4301-32	HZU 5.6B2	L220	010-3104-54	600 ohm/100MHz	R205	032-0140-51	1/10W 15k ohm F
D823	001-2403-90	M1F60	L221	010-3104-54	600 ohm/100MHz	R206	032-0140-51	1/10W 15k ohm F
D824	001-2403-90	M1F60	L226	010-3104-54	600 ohm/100MHz	R207	032-0140-51	1/10W 15k ohm F
IC101	051-3368-90	NJM2886DL3-05-TE1	L301	010-3104-54	600 ohm/100MHz	R208	032-0140-51	1/10W 15k ohm F
			L302	010-3104-54	600 ohm/100MHz	R209	032-0140-51	1/10W 15k ohm F
						R210	032-0140-51	1/10W 15k ohm F
						R211	032-0140-51	1/10W 15k ohm F
						R212	119-2201-15	1/10W 22 ohm

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R213	119-1011-15	1/10W 100 ohm	R353	119-1031-15	1/10W 10k ohm	R485	033-4721-15	1/16W 4.7k ohm J
R214	033-1031-15	1/16W 10k ohm J	R354	119-1031-15	1/10W 10k ohm	R486	033-4721-15	1/16W 4.7k ohm J
R215	033-1021-15	1/16W 1k ohm J	R355	119-1531-15	1/10W 15k ohm	R487	119-4731-15	1/10W 47k ohm
R216	119-3921-15	1/10W 3.9k ohm	R356	119-1531-15	1/10W 15k ohm	R488	119-3321-15	1/10W 3.3k ohm
R217	032-0140-89	1/10W 47k ohm F	R357	119-1031-15	1/10W 10k ohm	R489	119-1831-15	1/10W 18k ohm
R218	032-0140-51	1/10W 15k ohm F	R358	119-1031-15	1/10W 10k ohm	R501	119-1011-15	1/10W 100 ohm
R219	032-0140-51	1/10W 15k ohm F	R359	119-1031-15	1/10W 10k ohm	R502	119-1011-15	1/10W 100 ohm
R220	119-3921-15	1/10W 3.9k ohm	R360	119-1031-15	1/10W 10k ohm	R503	119-2201-15	1/10W 22 ohm
R221	032-0140-89	1/10W 47k ohm F	R361	119-3331-15	1/10W 33k ohm	R504	119-2201-15	1/10W 22 ohm
R222	032-0140-89	1/10W 47k ohm F	R410	033-1021-15	1/16W 1k ohm J	R505	119-2201-15	1/10W 22 ohm
R223	032-0140-89	1/10W 47k ohm F	R411	119-3321-15	1/10W 3.3k ohm	R506	119-2201-15	1/10W 22 ohm
R224	033-0000-05	1/16W 0 ohm	R412	119-4721-15	1/10W 4.7k ohm	R507	119-1011-15	1/10W 100 ohm
R225	033-0000-05	1/16W 0 ohm	R413	119-4721-15	1/10W 4.7k ohm	R508	119-0000-05	1/10W 0 ohm JW
R226	119-3921-15	1/10W 3.9k ohm	R414	033-0000-05	1/16W 0 ohm	R509	119-1031-15	1/10W 10k ohm
R227	119-3921-15	1/10W 3.9k ohm	R415	033-1021-15	1/16W 1k ohm J	R510	119-1031-15	1/10W 10k ohm
R228	033-1021-15	1/16W 1k ohm J	R416	119-3321-15	1/10W 3.3k ohm	R511	119-0000-05	1/10W 0 ohm JW
R231	032-0140-50	1/10W 10k ohm F	R417	119-4721-15	1/10W 4.7k ohm	R514	119-1031-15	1/10W 10k ohm
R233	032-0140-50	1/10W 10k ohm F	R418	033-0000-05	1/16W 0 ohm	R515	119-1031-15	1/10W 10k ohm
R234	032-0140-50	1/10W 10k ohm F	R421	119-0000-05	1/10W 0 ohm JW	R517	119-0000-05	1/10W 0 ohm JW
R235	032-0140-50	1/10W 10k ohm F	R422	119-0000-05	1/10W 0 ohm JW	R518	119-0000-05	1/10W 0 ohm JW
R236	032-0140-50	1/10W 10k ohm F	R423	119-3331-15	1/10W 33k ohm	R519	119-1031-15	1/10W 10k ohm
R237	032-0140-50	1/10W 10k ohm F	R424	033-1021-15	1/16W 1k ohm J	R520	119-2031-15	1/10W 20k ohm
R238	032-0140-50	1/10W 10k ohm F	R425	119-3321-15	1/10W 3.3k ohm	R521	119-4731-15	1/10W 47k ohm
R239	032-0140-50	1/10W 10k ohm F	R427	033-1021-15	1/16W 1k ohm J	R522	119-2031-15	1/10W 20k ohm
R240	033-1031-15	1/16W 10k ohm J	R428	119-3321-15	1/10W 3.3k ohm	R524	119-0000-05	1/10W 0 ohm JW
R241	033-1031-15	1/16W 10k ohm J	R429	033-1021-15	1/16W 1k ohm J	R525	119-0000-05	1/10W 0 ohm JW
R242	119-1011-15	1/10W 100 ohm	R430	033-4731-15	1/16W 47k ohm J	R527	119-2201-15	1/10W 22 ohm
R243	119-1011-15	1/10W 100 ohm	R432	033-4731-15	1/16W 47k ohm J	R529	119-1031-15	1/10W 10k ohm
R244	119-0000-05	1/10W 0 ohm JW	R433	033-1021-15	1/16W 1k ohm J	R530	119-0000-05	1/10W 0 ohm JW
R246	033-4731-15	1/16W 47k ohm J	R434	033-4731-15	1/16W 47k ohm J	R532	033-4731-15	1/16W 47k ohm J
R247	033-1031-15	1/16W 10k ohm J	R436	033-1021-15	1/16W 1k ohm J	R604	116-0000-05	1/4W 0 ohm JW
R248	119-1021-15	1/10W 1k ohm	R437	033-4731-15	1/16W 47k ohm J	R605	116-0000-05	1/4W 0 ohm JW
R249	119-1021-15	1/10W 1k ohm	R438	033-4721-15	1/16W 4.7k ohm J	R606	033-4731-15	1/16W 47k ohm J
R250	119-1021-15	1/10W 1k ohm	R439	032-0140-72	1/10W 470 ohm F	R610	033-0000-05	1/16W 0 ohm
R251	119-1021-15	1/10W 1k ohm	R440	033-0000-05	1/16W 0 ohm	R611	032-0140-80	1/10W 18k ohm F
R256	119-1001-15	1/10W 10 ohm	R441	033-4721-15	1/16W 4.7k ohm J	R612	119-0000-05	1/10W 0 ohm JW
R273	033-4731-15	1/16W 47k ohm J	R442	032-0140-72	1/10W 470 ohm F	R613	032-0140-00	1/10W 56k ohm F
R274	119-0000-05	1/10W 0 ohm JW	R443	033-0000-05	1/16W 0 ohm	R614	119-2231-15	1/10W 22k ohm
R275	119-0000-05	1/10W 0 ohm JW	R444	033-1031-15	1/16W 10k ohm J	R615	032-0140-69	1/10W 16k ohm F
R276	119-0000-05	1/10W 0 ohm JW	R445	119-1021-15	1/10W 1k ohm	R616	033-0000-05	1/16W 0 ohm
R277	119-0000-05	1/10W 0 ohm JW	R446	033-4721-15	1/16W 4.7k ohm J	R617	033-0000-05	1/16W 0 ohm
R278	119-0000-05	1/10W 0 ohm JW	R447	119-1011-15	1/10W 100 ohm	R618	116-0000-05	1/4W 0 ohm JW
R279	119-0000-05	1/10W 0 ohm JW	R448	119-1011-15	1/10W 100 ohm	R619	033-4731-15	1/16W 47k ohm J
R280	119-0000-05	1/10W 0 ohm JW	R449	033-4721-15	1/16W 4.7k ohm J	R620	033-1021-15	1/16W 1k ohm J
R281	119-2201-15	1/10W 22 ohm	R450	033-4721-15	1/16W 4.7k ohm J	R621	033-1031-15	1/16W 10k ohm J
R282	119-1011-15	1/10W 100 ohm	R451	119-1011-15	1/10W 100 ohm	R622	033-1031-15	1/16W 10k ohm J
R301	119-0000-05	1/10W 0 ohm JW	R452	119-1011-15	1/10W 100 ohm	R623	119-3321-15	1/10W 3.3k ohm
R302	119-1031-15	1/10W 10k ohm	R453	033-4721-15	1/16W 4.7k ohm J	R624	119-0000-05	1/10W 0 ohm JW
R303	119-1031-15	1/10W 10k ohm	R454	033-1021-15	1/16W 1k ohm J	R625	033-1021-15	1/16W 1k ohm J
R304	119-1031-15	1/10W 10k ohm	R455	033-4731-15	1/16W 47k ohm J	R626	033-1031-15	1/16W 10k ohm J
R305	119-1031-15	1/10W 10k ohm	R457	119-1031-15	1/10W 10k ohm	R627	033-1031-15	1/16W 10k ohm J
R308	119-1031-15	1/10W 10k ohm	R461	033-0000-05	1/16W 0 ohm	R628	119-3321-15	1/10W 3.3k ohm
R309	119-1031-15	1/10W 10k ohm	R462	033-0000-05	1/16W 0 ohm	R629	116-0000-05	1/4W 0 ohm JW
R315	119-4741-15	1/10W 470k ohm	R463	033-0000-05	1/16W 0 ohm	R631	119-0000-05	1/10W 0 ohm JW
R316	119-4741-15	1/10W 470k ohm	R465	119-1231-15	1/10W 12k ohm	R632	032-0231-52	1W 33 ohm
R317	119-4741-15	1/10W 470k ohm	R466	033-1031-15	1/16W 10k ohm J	R633	032-0231-52	1W 33 ohm
R318	119-4741-15	1/10W 470k ohm	R467	119-4721-15	1/10W 4.7k ohm	R701	119-0000-05	1/10W 0 ohm JW
R322	119-8211-15	1/10W 820 ohm	R468	119-3331-15	1/10W 33k ohm	R702	119-0000-05	1/10W 0 ohm JW
R323	119-1021-15	1/10W 1k ohm	R469	119-3331-15	1/10W 33k ohm	R703	119-2231-15	1/10W 22k ohm
R325	119-1031-15	1/10W 10k ohm	R470	119-4731-15	1/10W 47k ohm	R704	119-2231-15	1/10W 22k ohm
R327	119-1031-15	1/10W 10k ohm	R471	119-1011-15	1/10W 100 ohm	R705	119-1041-15	1/10W 100k ohm
R333	119-0000-05	1/10W 0 ohm JW	R472	119-4731-15	1/10W 47k ohm	R706	119-1021-15	1/10W 1k ohm
R334	119-0000-05	1/10W 0 ohm JW	R473	119-1011-15	1/10W 100 ohm	R707	033-1021-15	1/16W 1k ohm J
R335	119-0000-05	1/10W 0 ohm JW	R474	032-0140-06	1/10W 100 ohm F	R708	033-4731-15	1/16W 47k ohm J
R336	119-0000-05	1/10W 0 ohm JW	R475	032-0140-06	1/10W 100 ohm F	R709	033-4731-15	1/16W 47k ohm J
R340	119-1031-15	1/10W 10k ohm	R476	032-0140-82	1/10W 150k ohm F	R710	119-4731-15	1/10W 47k ohm
R341	119-2221-15	1/10W 2.2k ohm	R477	032-0148-50	1/10W 100k ohm D	R711	119-1021-15	1/10W 1k ohm
R342	119-2221-15	1/10W 2.2k ohm	R478	119-3331-15	1/10W 33k ohm	R712	119-2231-15	1/10W 22k ohm
R343	119-2221-15	1/10W 2.2k ohm	R479	119-1041-15	1/10W 100k ohm	R713	119-2231-15	1/10W 22k ohm
R344	119-2221-15	1/10W 2.2k ohm	R480	033-4731-15	1/16W 47k ohm J	R714	033-1021-15	1/16W 1k ohm J
R345	119-1531-15	1/10W 15k ohm	R481	033-0000-05	1/16W 0 ohm	R715	119-1041-15	1/10W 100k ohm
R346	119-1531-15	1/10W 15k ohm	R482	119-5621-15	1/10W 5.6k ohm	R716	033-4731-15	1/16W 47k ohm J
R351	119-1031-15	1/10W 10k ohm	R483	033-0000-05	1/16W 0 ohm	R718	033-4731-15	1/16W 47k ohm J
R352	119-1031-15	1/10W 10k ohm	R484	119-1021-15	1/10W 1k ohm	R720	119-1021-15	1/10W 1k ohm

REF No.	PART No.	DESCRIPTION
R725	033-1021-15	1/16W 1k ohm J
R727	033-4731-15	1/16W 47k ohm J
R729	033-4731-15	1/16W 47k ohm J
R730	119-4731-15	1/10W 47k ohm
R731	119-1021-15	1/10W 1k ohm
R735	119-2231-15	1/10W 22k ohm
R736	119-2231-15	1/10W 22k ohm
R742	116-1211-15	1/4W 120 ohm
R744	116-1211-15	1/4W 120 ohm
R801	033-4731-15	1/16W 47k ohm J
R802	119-1531-15	1/10W 15k ohm
R804	119-3931-15	1/10W 39k ohm
R805	119-4721-15	1/10W 4.7k ohm
R812	033-0000-05	1/16W 0 ohm
R813	033-1031-15	1/16W 10k ohm J
R820	119-0000-05	1/10W 0 ohm JW
R821	119-2221-15	1/10W 2.2k ohm
R822	033-1031-15	1/16W 10k ohm J
R824	119-1021-15	1/10W 1k ohm
R828	119-1021-15	1/10W 1k ohm
R839	032-0092-56	1/8W 22k ohm F

REF No.	PART No.	DESCRIPTION
R840	032-0092-31	1/8W 150k ohm F
R841	117-1031-15	1/8W 10k ohm
R842	116-2221-15	1/4W 2.2k ohm
R843	119-3321-15	1/10W 3.3k ohm
R844	032-0092-51	1/8W 1k ohm F
R845	116-5621-15	1/4W 5.6k ohm
R846	033-1031-15	1/16W 10k ohm J
R847	116-2221-15	1/4W 2.2k ohm
R848	119-1221-15	1/10W 1.2k ohm
R849	116-4721-15	1/4W 4.7k ohm
R850	116-1021-15	1/4W 1k ohm
R851	033-4731-15	1/16W 47k ohm J
R853	119-2231-15	1/10W 22k ohm
R854	116-1821-15	1/4W 1.8k ohm
R855	117-1821-15	1/8W 1.8k ohm
R856	119-3331-15	1/10W 33k ohm
R858	119-3321-15	1/10W 3.3k ohm
R859	033-1031-15	1/16W 10k ohm J
R860	119-2221-15	1/10W 2.2k ohm
R861	116-4721-15	1/4W 4.7k ohm
R864	116-1831-15	1/4W 18k ohm

REF No.	PART No.	DESCRIPTION
R865	116-5611-15	1/4W 560 ohm
R866	119-1031-15	1/10W 10k ohm
R867	116-2221-15	1/4W 2.2k ohm
R868	119-3321-15	1/10W 3.3k ohm
R869	116-2221-15	1/4W 2.2k ohm
R870	033-4721-15	1/16W 4.7k ohm J
R871	033-4721-15	1/16W 4.7k ohm J
R872	116-2201-15	1/4W 22 ohm
R873	116-2201-15	1/4W 22 ohm
R874	119-4731-15	1/10W 47k ohm
R875	119-1531-15	1/10W 15k ohm
R876	119-3931-15	1/10W 39k ohm
R878	116-4721-15	1/4W 4.7k ohm
SUP102	060-8057-90	CSA20-141N-T
TH802	002-0318-21	THERMISTOR
TM501	073-0762-90	TERMINAL
TM601	073-0762-90	TERMINAL
X201	061-3537-90	41.6MHz
X401	061-3541-90	10.00MHz
PWB	039-3754-00	PWB(WITHOUT COMPONENTS)

SW PWB(B2) section

REF No.	PART No.	DESCRIPTION
ANT1101	060-8094-50	YMA1250-S100706
C1001	168-1022-55	1000pF K
C1002	168-1042-78	16V 0.1uF K
C1003	168-1042-78	16V 0.1uF K
C1004	168-1042-78	16V 0.1uF K
C1005	178-1052-78	25V 1uF
C1006	166-5101-50	51pF CH
C1101	166-1021-50	1000pF CH
C1102	168-1042-78	16V 0.1uF K
C1103	043-0616-90	6.3V 33uF
C1104	168-1042-78	16V 0.1uF K
C1105	168-2212-55	220pF K
D1001	001-7141-90	VFHR1111C-48Y2A-T R RED
D1002	001-7141-90	VFHR1111C-48Y2A-T R RED
D1003	001-7141-90	VFHR1111C-48Y2A-T R RED
D1004	001-7141-90	VFHR1111C-48Y2A-T R RED
D1005	001-7141-90	VFHR1111C-48Y2A-T R RED
D1006	001-7141-90	VFHR1111C-48Y2A-T R RED
D1007	001-7141-90	VFHR1111C-48Y2A-T R RED
D1008	001-7141-90	VFHR1111C-48Y2A-T R RED
D1009	001-7141-90	VFHR1111C-48Y2A-T R RED
D1010	001-7141-90	VFHR1111C-48Y2A-T R RED
D1011	001-7141-90	VFHR1111C-48Y2A-T R RED
D1012	001-7141-90	VFHR1111C-48Y2A-T R RED
D1013	001-7141-90	VFHR1111C-48Y2A-T R RED
D1014	001-7141-90	VFHR1111C-48Y2A-T R RED
D1015	001-7141-90	VFHR1111C-48Y2A-T R RED
D1016	001-7141-90	VFHR1111C-48Y2A-T R RED
D1017	001-7094-92	VFR1112H-6A83A2
D1018	001-7094-92	VFR1112H-6A83A2
D1019	001-7141-90	VFHR1111C-48Y2A-T R RED
D1020	001-7094-92	VFR1112H-6A83A2
D1021	001-7094-92	VFR1112H-6A83A2

REF No.	PART No.	DESCRIPTION
D1024	001-7141-90	VFHR1111C-48Y2A-T R RED
D1025	001-7094-92	VFR1112H-6A83A2
D1026	001-7094-92	VFR1112H-6A83A2
D1030	001-7141-90	VFHR1111C-48Y2A-T R RED
D1031	001-7094-92	VFR1112H-6A83A2
D1032	001-7094-92	VFR1112H-6A83A2
D1033	001-7141-90	VFHR1111C-48Y2A-T R RED
D1034	001-7140-90	SMLZ14WBECW1(A) WHITE
D1035	001-7140-90	SMLZ14WBECW1(A) WHITE
D1036	001-7141-90	VFHR1111C-48Y2A-T R RED
D1037	001-7140-90	SMLZ14WBECW1(A) WHITE
D1038	001-7140-90	SMLZ14WBECW1(A) WHITE
D1039	001-7141-90	VFHR1111C-48Y2A-T R RED
D1040	001-7140-90	SMLZ14WBECW1(A) WHITE
D1041	001-7140-90	SMLZ14WBECW1(A) WHITE
D1042	001-7140-90	SMLZ14WBECW1(A) WHITE
D1043	001-7140-90	SMLZ14WBECW1(A) WHITE
D1044	001-7140-90	SMLZ14WBECW1(A) WHITE
D1045	001-7140-90	SMLZ14WBECW1(A) WHITE
D1046	001-7140-90	SMLZ14WBECW1(A) WHITE
D1047	001-7140-90	SMLZ14WBECW1(A) WHITE
D1048	001-7140-90	SMLZ14WBECW1(A) WHITE
D1049	001-7140-90	SMLZ14WBECW1(A) WHITE
D1050	001-7140-90	SMLZ14WBECW1(A) WHITE
D1051	001-7140-90	SMLZ14WBECW1(A) WHITE
IC1001	051-6642-08	LC75700T
IC1002	051-6104-00	NJU6626FG1-03
IC1101	-----	BLUETOOTH MODU LE

REF No.	PART No.	DESCRIPTION
		(PAD-TYPE) (812092-060)
IC1102	052-7100-91	SST25VF032B
J1001	074-3055-24	SOCKET(24P)
J1101	076-6000-65	15P
J1102	074-3055-20	SOCKET(20P)
L1001	010-3406-66	22uH J
L1002	010-3406-66	22uH J
LCD1	379-1450-63	LCD INDICATOR
R1001	116-3321-15	1/4W 3.3k ohm
R1002	116-1821-15	1/4W 1.8k ohm
R1003	116-2221-15	1/4W 2.2k ohm
R1004	116-1821-15	1/4W 1.8k ohm
R1005	116-2221-15	1/4W 2.2k ohm
R1006	116-1821-15	1/4W 1.8k ohm
R1007	116-2221-15	1/4W 2.2k ohm
R1008	116-2221-15	1/4W 2.2k ohm
R1009	116-2221-15	1/4W 2.2k ohm
R1010	116-1821-15	1/4W 1.8k ohm
R1011	119-1031-15	1/10W 10k ohm
R1012	116-2221-15	1/4W 2.2k ohm
R1013	116-2721-15	1/4W 2.7k ohm
R1014	119-3931-15	1/10W 39k ohm
R1015	116-3321-15	1/4W 3.3k ohm
R1016	116-2721-15	1/4W 2.7k ohm
R1017	119-1021-15	1/10W 1k ohm
R1018	116-2221-15	1/4W 2.2k ohm
R1019	116-2721-15	1/4W 2.7k ohm
R1020	116-2221-15	1/4W 2.2k ohm
R1021	116-2721-15	1/4W 2.7k ohm
R1022	116-2221-15	1/4W 2.2k ohm
R1023	119-1211-15	1/10W 120 ohm
R1026	116-3321-15	1/4W 3.3k ohm
R1027	119-1211-15	1/10W 120 ohm
R1030	116-3321-15	1/4W 3.3k ohm
R1031	119-1211-15	1/10W 120 ohm
R1034	119-1211-15	1/10W 120 ohm
R1037	119-1211-15	1/10W 120 ohm
R1041	119-1211-15	1/10W 120 ohm
R1043	119-1211-15	1/10W 120 ohm
R1044	119-1211-15	1/10W 120 ohm
R1045	119-0000-05	1/10W 0 ohm JW
R1046	119-0000-05	1/10W 0 ohm JW
R1047	119-1211-15	1/10W 120 ohm
R1049	119-1211-15	1/10W 120 ohm
R1050	119-0000-05	1/10W 0 ohm JW
R1051	119-0000-05	1/10W 0 ohm JW
R1054	119-1211-15	1/10W 120 ohm
R1055	119-1211-15	1/10W 120 ohm
R1059	119-1211-15	1/10W 120 ohm

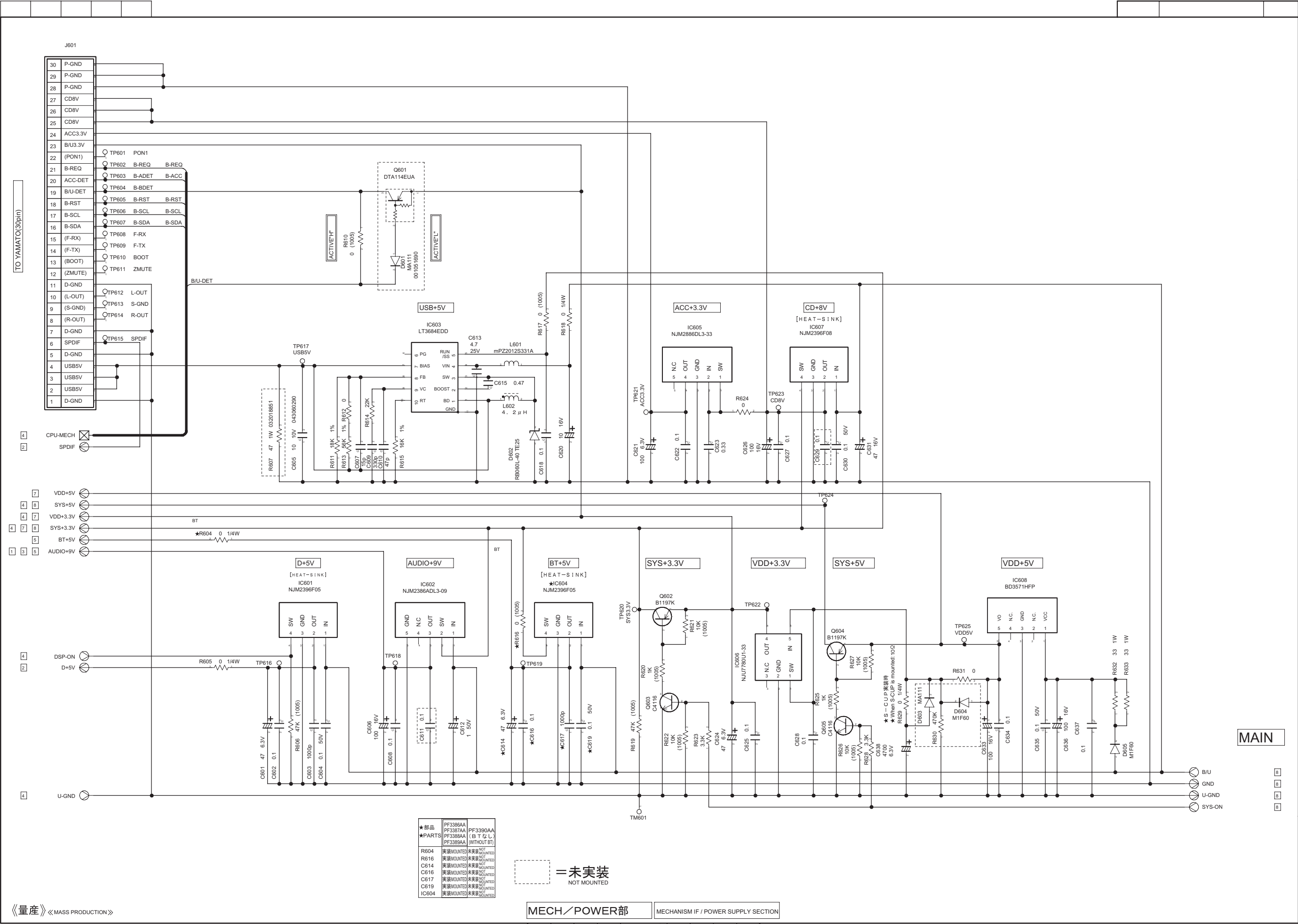
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R1061	119-1211-15	1/10W 120 ohm	R1117	119-1031-15	1/10W 10k ohm	R1140	119-1011-15	1/10W 100 ohm
R1065	119-1021-15	1/10W 1k ohm	R1118	119-1011-15	1/10W 100 ohm	R1141	119-1011-15	1/10W 100 ohm
R1066	119-1021-15	1/10W 1k ohm	R1119	119-1031-15	1/10W 10k ohm	R1142	119-1011-15	1/10W 100 ohm
R1067	119-1021-15	1/10W 1k ohm	R1120	119-1011-15	1/10W 100 ohm	R1143	119-1011-15	1/10W 100 ohm
R1068	119-1021-15	1/10W 1k ohm	R1121	119-1011-15	1/10W 100 ohm	R1144	119-1011-15	1/10W 100 ohm
R1070	119-2221-15	1/10W 2.2k ohm	R1122	119-1011-15	1/10W 100 ohm	R1145	119-2201-15	1/10W 22 ohm
R1071	119-1211-15	1/10W 120 ohm	R1123	119-1011-15	1/10W 100 ohm	R1146	119-2201-15	1/10W 22 ohm
R1072	119-1211-15	1/10W 120 ohm	R1124	119-1011-15	1/10W 100 ohm	R1148	119-0000-05	1/10W 0 ohm JW
R1101	119-1031-15	1/10W 10k ohm	R1125	119-1011-15	1/10W 100 ohm	R1149	119-1011-15	1/10W 100 ohm
R1104	119-4721-15	1/10W 4.7k ohm	R1126	119-1011-15	1/10W 100 ohm	R1150	119-0000-05	1/10W 0 ohm JW
R1105	119-1031-15	1/10W 10k ohm	R1127	119-1011-15	1/10W 100 ohm	R1151	119-0000-05	1/10W 0 ohm JW
R1106	119-1011-15	1/10W 100 ohm	R1128	119-1011-15	1/10W 100 ohm	R1152	119-0000-05	1/10W 0 ohm JW
R1107	119-1011-15	1/10W 100 ohm	R1129	119-1011-15	1/10W 100 ohm	R1154	119-0000-05	1/10W 0 ohm JW
R1108	119-1011-15	1/10W 100 ohm	R1130	119-1011-15	1/10W 100 ohm	R1155	119-0000-05	1/10W 0 ohm JW
R1109	119-1031-15	1/10W 10k ohm	R1131	119-1011-15	1/10W 100 ohm	R1156	119-0000-05	1/10W 0 ohm JW
R1110	119-1011-15	1/10W 100 ohm	R1132	119-1011-15	1/10W 100 ohm	TH1001	002-0315-00	TN10-3U153JT
R1111	119-1031-15	1/10W 10k ohm	R1133	119-1011-15	1/10W 100 ohm	TH1002	002-0315-01	THERMISTOR
R1112	119-1011-15	1/10W 100 ohm	R1134	119-0000-05	1/10W 0 ohm JW	VR1001	016-0018-24	ROTALY ENCODER
R1113	119-1031-15	1/10W 10k ohm	R1135	119-1011-15	1/10W 100 ohm	VR1002	016-0018-24	ROTALY ENCODER
R1114	119-1011-15	1/10W 100 ohm	R1136	119-1011-15	1/10W 100 ohm	VR1003	012-6009-57	22k ohm B VR
R1115	119-1031-15	1/10W 10k ohm	R1137	119-1031-15	1/10W 10k ohm	PWB	039-3875-00	PWB(WITHOUT COMPONENTS)
R1116	119-1011-15	1/10W 100 ohm	R1139	119-1011-15	1/10W 100 ohm			

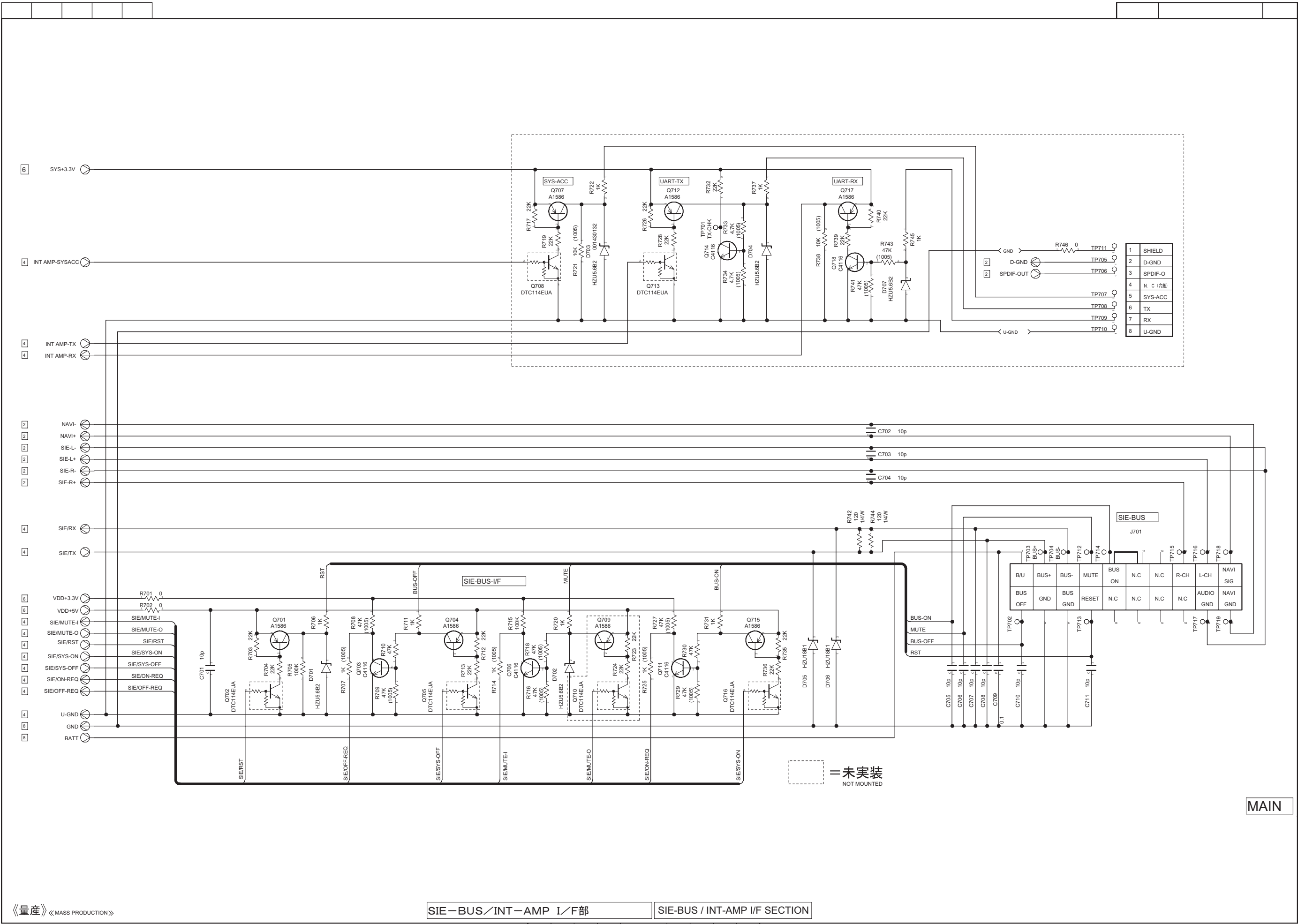
SUB PWB(B3) section

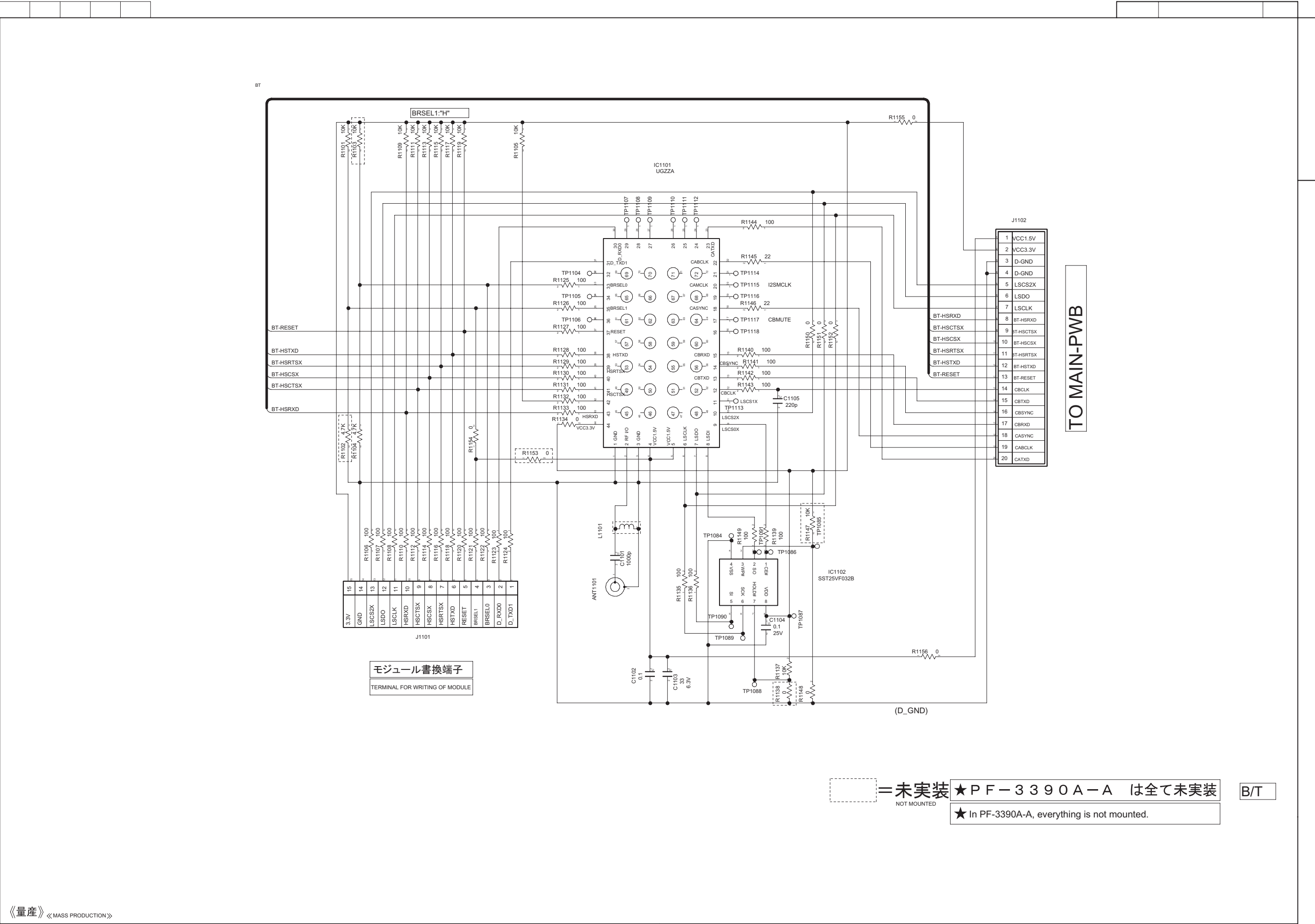
REF No.	PART No.	DESCRIPTION
J1201	074-4049-50	4P
J1202	074-2506-10	10P
PWB	039-3674-01	PWB(WITHOUT COMPONENTS)

MEMO







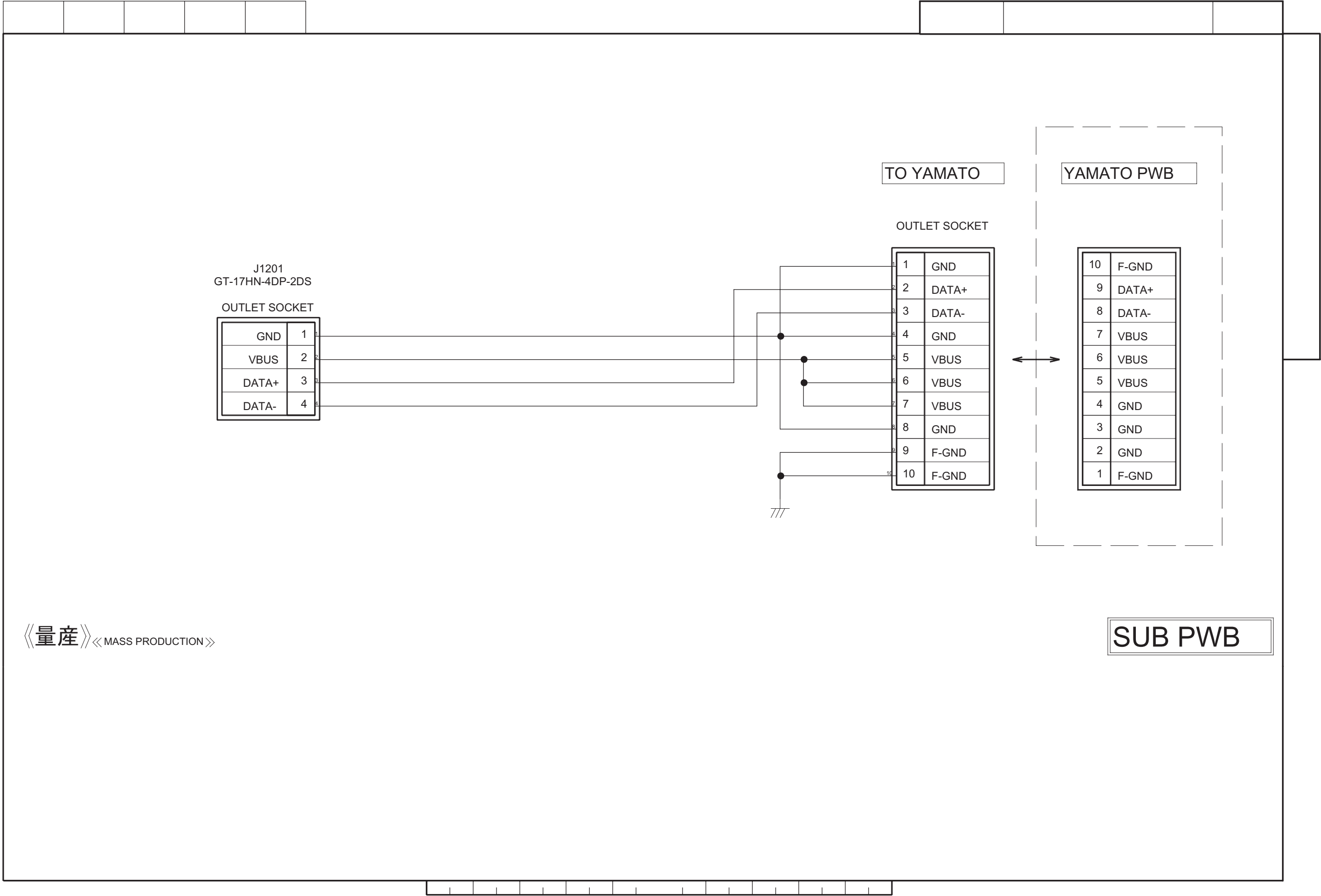


NOT MOUNTED

★PF-3390A-A は全て未実装

★ In PF-3390A-A, everything is not mounted.

B/T

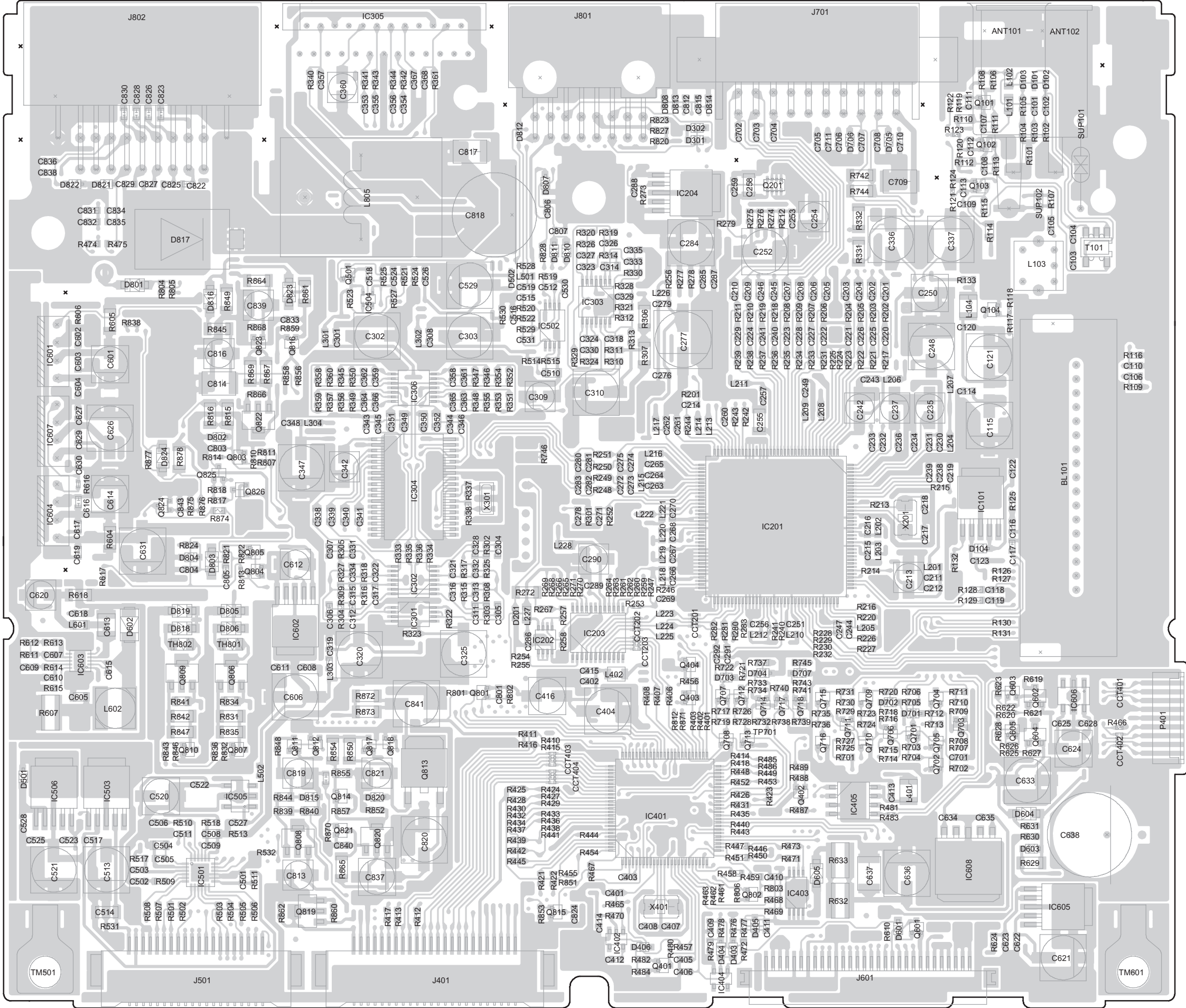


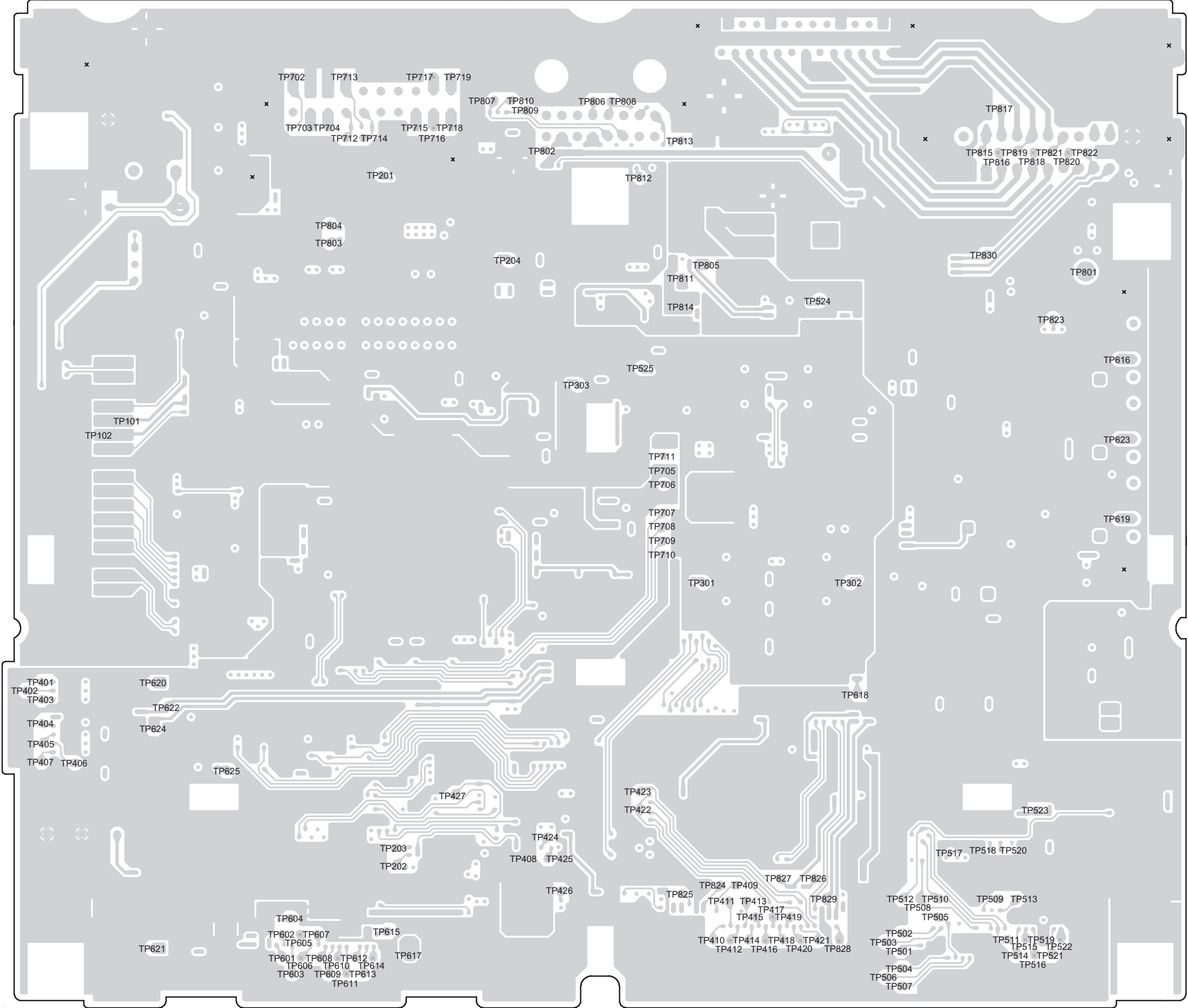
《量産》《MASS PRODUCTION》

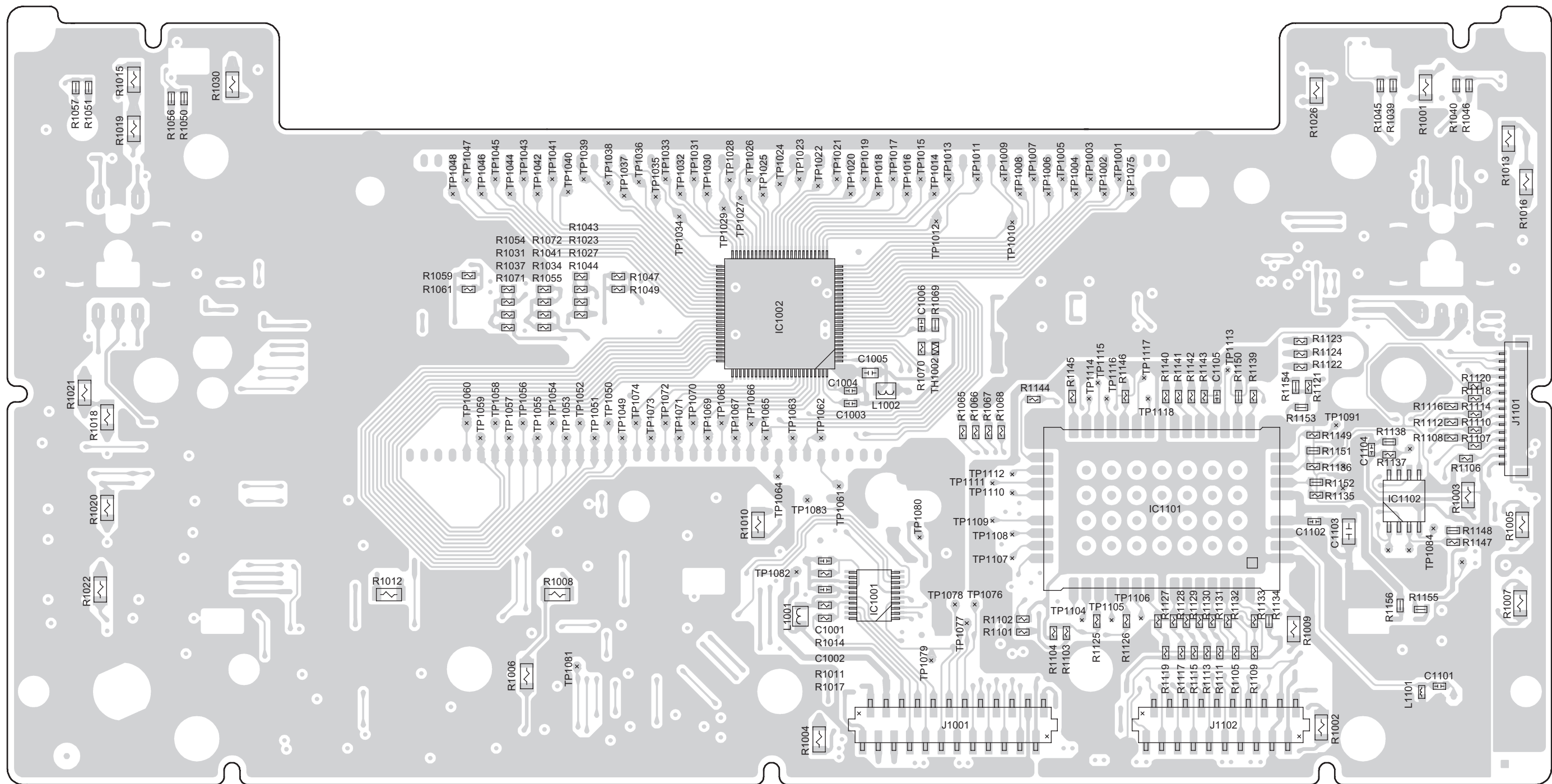
SUB PWB

PRINTED WIRING BOARD

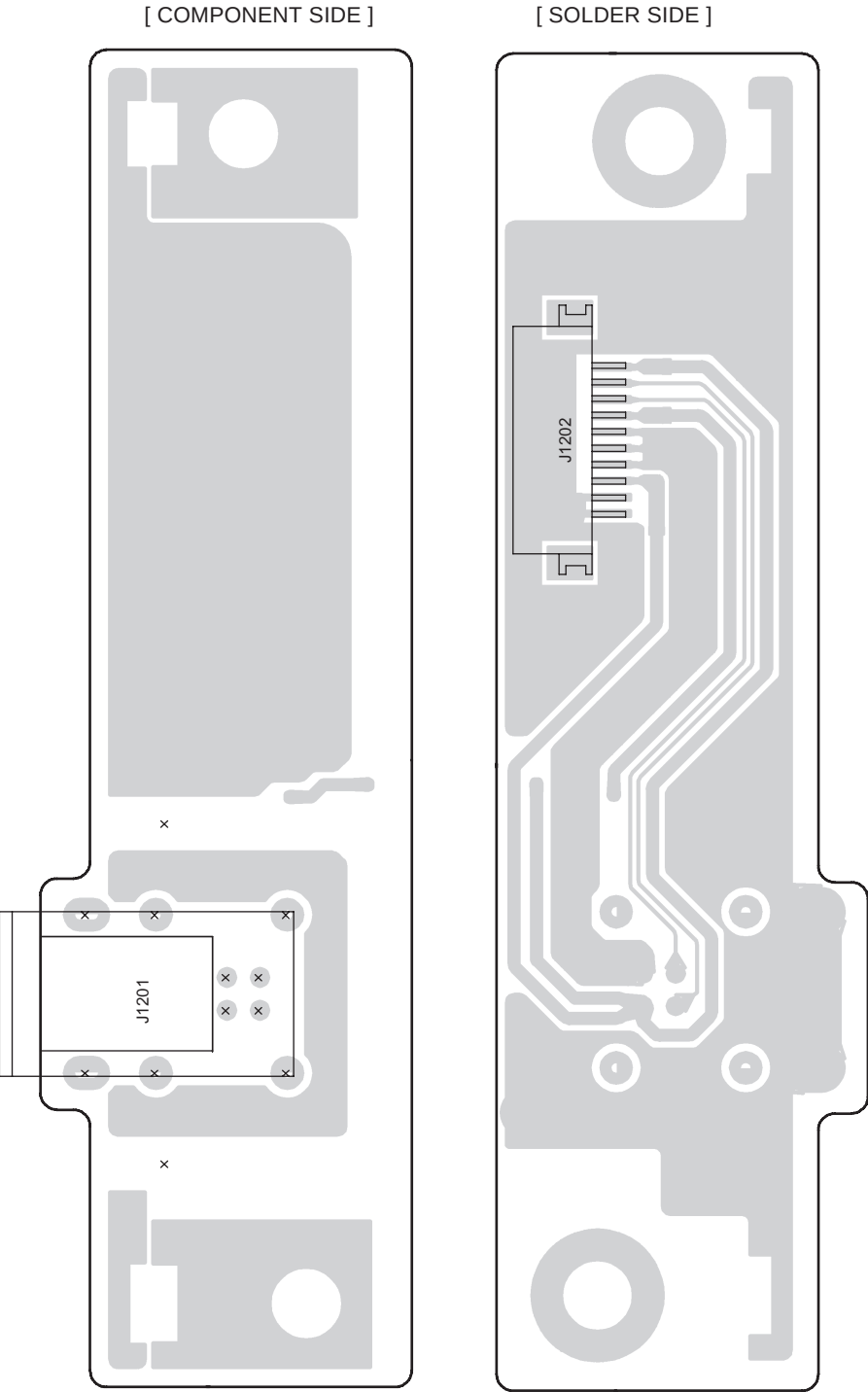
MAIN PWB(B1) section 1/2
[COMPONENT SIDE]





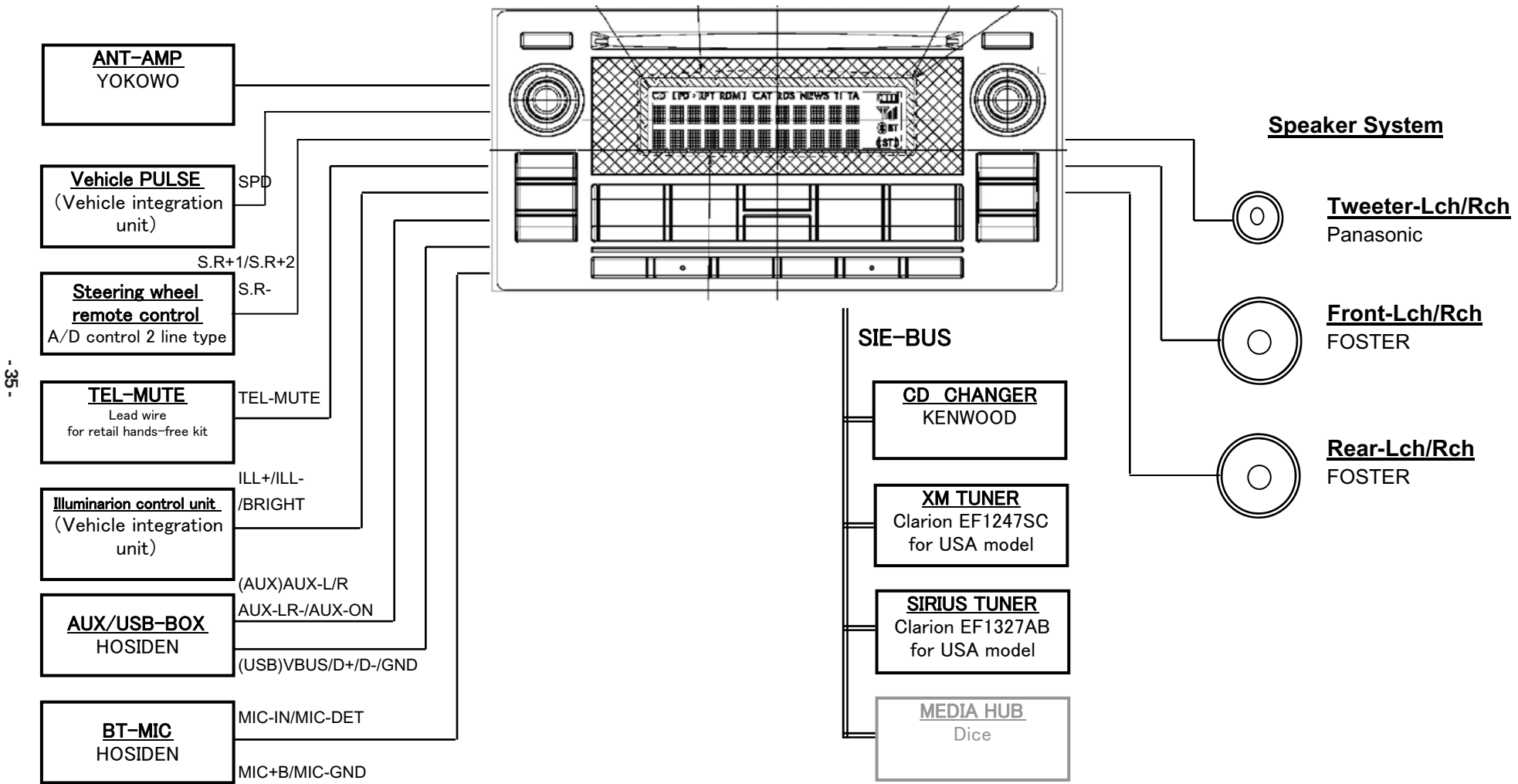






RADIO ASSY

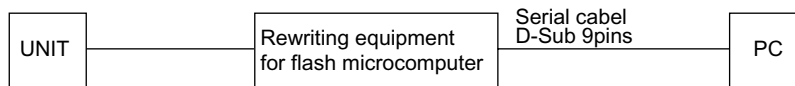
PF3386AA(NAM)/PF3387AA(EUR-RH)/PF3388AA(EUR-LH)/PF3389AA(AUS)/PF3390AA(EXP)



ADJUSTMENTS

1. Procedure for rewriting of EEPROM

1) Wiring



* Make "CNVSS" of the switch of the flash rewriting equipment "OPEN".

2) Installation of software for rewriting EEPROM

Install the software of rewriting in PC.

3) Start of software

- 3-1) Turn on the power supply of the unit.
Click "SUBARU_ZR1_ADJ_DSP_V307.exe" to open the software.
- 3-2) Select "EUROPE" of "AREA"
Click "Open Comm.PORT".
Click "Initialization of JIGU".
Click "Incoming connection".
- 3-3) Clear "AUTO at EEPROM Write" of "CheckSUM".
- 3-4) Click "EEPROM Page Read" of "EEPROM".
The parameter value on "ROM DATA MAP" is read.

4) Rewriting of EEPROM

- 4-1) Click "prn FILE LOAD" of "Prn File".
Select a necessary prn file.
- 4-2) Select a necessary check box on the right side of "ROM DATA MAP".
Do not select the line of "00", "D0" and all "FF".
The line from 10 to 70 is a parameter for the tuner.
Use it only when it is necessary.
- 4-3) Click "EEPROM Write in a checked line" of "EEPROM".
The selected parameter is rewritten.
- 4-4) Click "EEPROM Page Read" of "EEPROM" again.
Check the rewriting.
- 4-5) Close the software.

"Open Comm.PORT" "Initialization of JIGU" "Incoming connection"

The screenshot shows the 'Adjustment system for SUBARU ZR1' software. Key elements include:

- Top Bar:** Title 'Adjustment system for SUBARU ZR1', version 'Y4-S024-307-2006121', and 'Production-Engi...'.
- Navigation:** 'MENU Log' and 'Settings' tabs. A sequence of buttons: 'Open Comm. PORT' → 'Initialization of JIG' → 'Incoming connection'.
- Area Selection:** 'AREA' dropdown with options: USA, JAPAN, EUROPE (selected), OTHER. A 'RESET' button is next to it.
- Adjustment Panels:** Multiple panels for 'FM IF-Count', 'MW IF-Count', 'LW IF-Count', 'FM S-Meter', 'MW S-Meter', 'LW S-Meter', and 'Separation' (upper/lower). Each has an 'Adjustment' field and a 'Check' button.
- ROM DATA MAP:** A table with columns for address (00 to FF) and data. A red circle highlights the 'ROM DATA MAP' tab. A red arrow points to the 'prn FILE LOAD' button.
- EEPROM Section:** Includes 'prn FILE LOAD', 'prn FILE Save', 'CheckSUM' (with 'AUTO at EEPROM Write' checkbox), 'EEPROM Page Read', and 'EEPROM write in a checked line'.
- Bottom Status:** 'com1 Open, 19200, 8, 1' and 'Com Buffer = 8'.

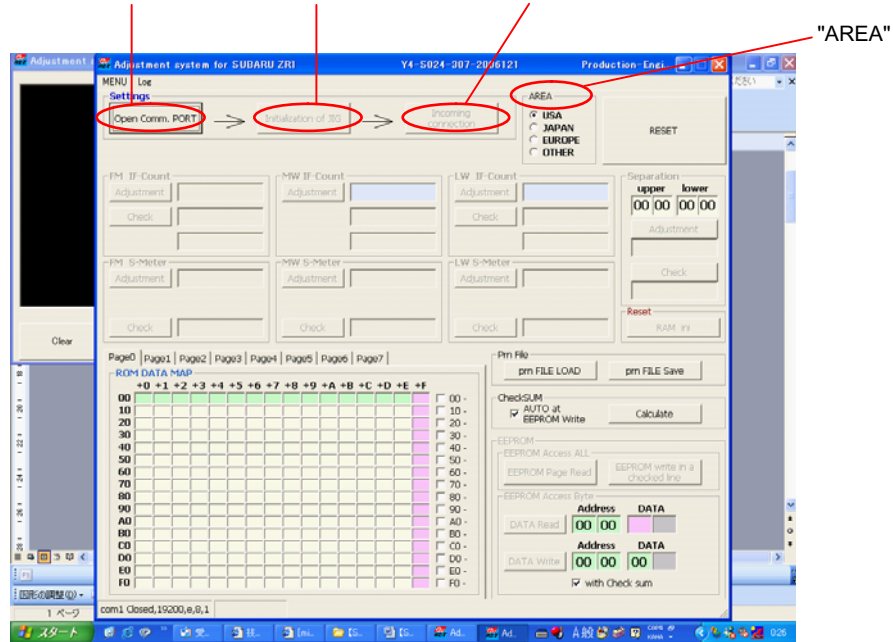
"ROM DATA MAP"

2. Procedure for adjustment of DSP tuner alignment

1) Setting

- 1-1) Set two switches of the equipment of rewriting for microcomputer to OPEN.
Connect the equipment of rewriting to the unit and PC.
- 1-2) Turn on the unit.
Open "SUBARU_ZR1_ADJ_DSP_V307.exe" of PC.
- 1-3) Select the destination of "AREA".
Click "Open Comm, PORT".
Click "Initialization of JIG".
Click "Incoming connection".
- 1-4) Adjust it as follows two minutes later.

"Open Comm.PORT" "Initialization of JIGU" "Incoming connection"



2) Adjustment of FM

2-1) FM IF-Count (FM IF Correction)

Input the following signal.

98.1MHz(83MHz), MONO, NON-MOD, SG OUT:60dBu

Click "Adjustment".

2-2) FM S-Meter (FM S-Meter adjustment)

Input the following signal.

98.1MHz(83MHz), MONO, 1kHz 22.5kHz MOD, SG OUT:20dBu

Click "Adjustment".

3) Adjustment of AM

3-1) MW LW IF-Count (MW LW IF Correction)

Input the following signal.

Use AM-ANT dummy, 1000k(999k), MONO, NON-MOD, SG OUT:60dBu

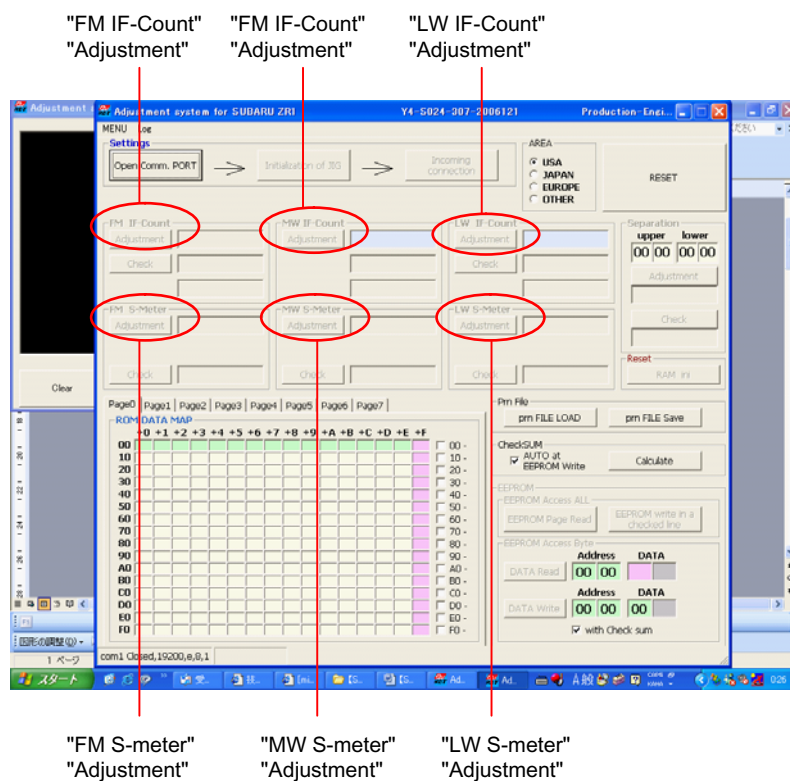
Click "Adjustment".

3-2) MW LW S-Meter (MW LW S-Meter adjustment)

Input the following signal.

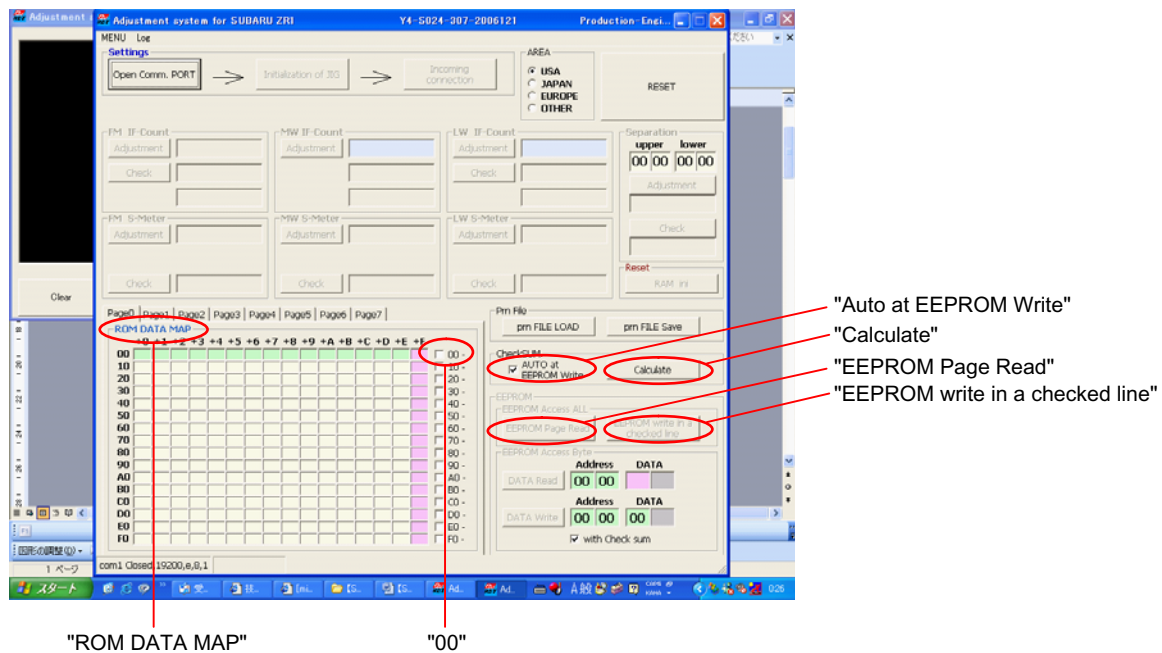
Use AM-ANT dummy, 1000k(999k), MONO, 400Hz 30% MOD, SG OUT:60dBu

Click "Adjustment".



4) Writing

- 4-1) Click "EEPROM Page Read".
"ROM DATA MAP" is displayed.
- 4-2) Select top of "00" of "ROM DATA MAP".
- 4-3) Clear "AUTO at EEPROM Write" of "CheckSUM".
Click "Calculate".
- 4-4) Click "EEPROM Write in a checked line" to write EEPROM-IC.



5) Close

- 5-1) Close the software of "SUBARU_ZR1_ADJ_DSP_V307.exe".
- 5-2) Turn off the unit.
- 5-3) Take off the equipment of rewriting of microcomputer.

3. Procedure for adjustment of FM separation

1. Connect the rewriting equipment of flash to the unit.
Turn on the unit.
2. Open the EEPROM rewriting software of "SUBARU_ZR1_ADJ_DSP_V307.exe".
3. Select the destination of "AREA".
Click "Open Comm.PORT".
Click "Initialization of JIG".
Click "Incoming connection".
4. Clear the check box of "AUTO at EEPROM Write" of "SUM".
5. Click "EEPROM Page Read".
The written parameter of EEPROM is read.
(The parameter of separation is saved in address of 10 and 11.)
6. Set "upper/lower" of "Separation" as follows.
upper ...0600 lower ...0520
7. Set the SG signal as follows.
98.1MHz(JPN=83.0MHz), ST30%MOD, MOD FREQ 1kHz, Output 65dBuV, Modulation MAIN
Set the standard output to 1.4V with volume.
Set the modulation to "RIGHT".
8. Click "Adjustment" of "Separation".
The adjustment starts.
When the adjustment finished, the parameter appears on the bottom of "Adjustment".
9. Click "EEPROM Page Read".
Check the parameter on the address of "10" and "11".
10. Turn off the ACC.
Turn on the ACC.
Measure the separation at ST30%. (Separation = about 25dB)

"Open Comm.PORT" "Initialization of JIGU" "Incoming connection" "AREA"

"Separation" "upper / lower"

"Separation" "Adjustment"

"AUTO at EEPROM Write"

"EEPROM Page Read"

	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F
00	FF	FF	FF	FF	E2	84	DB	0F	E4	E2	49	E7	0F	C1	11	
10	05	60	85	51	85	51	42	42	FD	FD	FA	5C	5F	01	30	75
20	06	D8	0F	88	04	7F	02	14	0F	57	0E	C0	00	C0	41	43
30	02	B7	05	E2	0F	6A	0F	18	00	8B	03	01	0F	80	FF	5D
40	07	F8	00	03	00	CC	02	8F	5C	01	99	60	00	12	FF	C6
50	01	36	0F	EE	00	51	FF	02	4B	0F	30	04	18	02	F9	27
60	00	70	00	49	00	00	04	60	80	00	00	32	04	00	00	D3
70	01	12	00	08	00	CC	FF	02	0B	0F	66	04	18	02	F9	7F
80	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
90	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
A0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
B0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
C0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
D0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
E0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F0	01	00	02	02	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	F8

4. Procedure for adjustment of LCD frame frequency

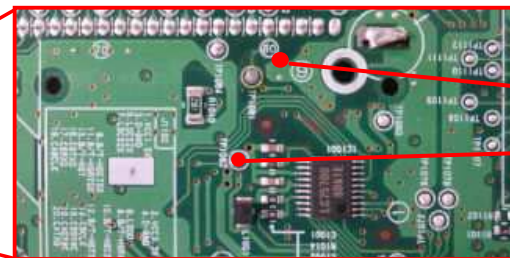
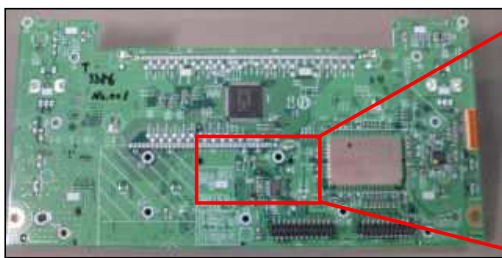
- * Adjust LCD frame frequency when the display of LCD flickers or the LCD or LCD driver IC was replaced.
- * Adjust it in the condition of about 25°C.

1) Turn on the power supply of the unit pushing the power button.



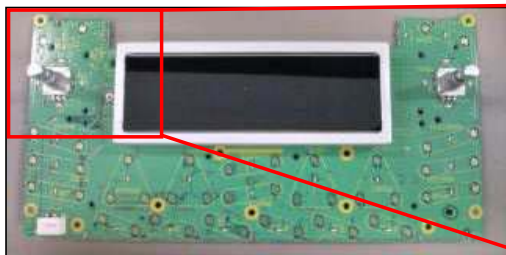
POWER button

2) Connect the line of HOT and GND of the frequency counter to the test point. (Do not use a probe.)



HOT
TP1061(COM1)
GND
TP1082(U-GND)

3) Adjust a frame frequency by VR.



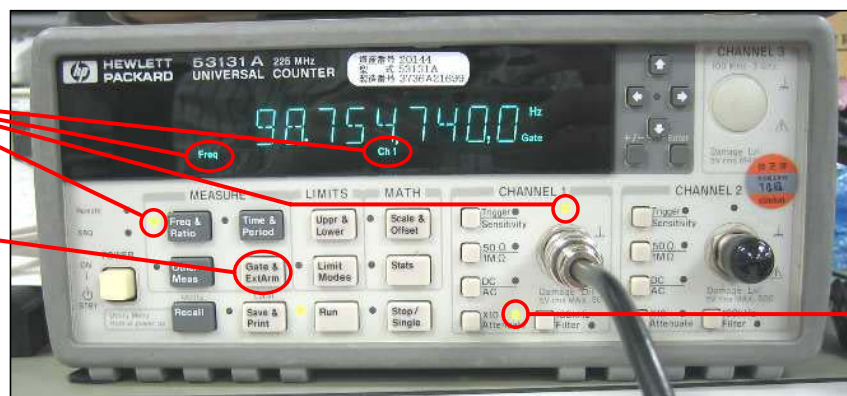
VR1003
for frame frequency

4) Adjust it to 97.0Hz(+0.5Hz/-1.0Hz) by the frequency counter(HEWLETT PACKARD 53131A is specified).

- * Adjust it in the condition of the ambient temperature(PWB) from +10°C to +40°C.

FREQ.:1ch

GATE TIME:0.100S



X 10
Attenuate

EXPLANATION OF IC

IC401 R5F64167PFB Microcomputer

[NOTE] When these IC are exchanged, it is necessary to write the program because the program is not written in this IC.

Please note that the ROM data vary for each model program.

Terminal Description for : PF-3386A-A

pin 1: ILL PULSE :IN: ILL-pulse input.

pin 2: TUN+5V ON :O: 5V Power supply ON signal output.
H = ON.

pin 3: VDC OUT : - : A decoupling capacitor for internal voltage should be connected between VDC IN and VDC OUT.

pin 4: NU : - : Not in use.

pin 5: VDC IN : - : A decoupling capacitor for internal voltage should be connected between VDC IN and VDC OUT.

pin 6: NSD :I/O: This pin is to communicate with a debugger.

pin 7: CNVSS :IN: CPU motion selection signal input. L = Normal, H = Flash writing mode.

pin 8: TEST : - : For the Test.

pin 9: NU : - : Not in use.

pin 10: RESET# :IN: Reset signal input.

pin 11: X out :O: The crystal connection.

pin 12: GND : - : Ground.

pin 13: X in :IN: The crystal connection.

pin 14: VDD +3.3V : - : +3.3V positive voltage supply.

pin 15: NMI :IN: Nonmaskable interrupt.

pin 16: ACC DET# :IN: ACC detection signal input.

pin 17: B/U DET# :IN: Backup voltage ON signal input.

pin 18: RBDS CK :IN: RBDS clock input.

pin 19: RBDS DATA :IN: RBDS data input.

pin 20: NU : - : Not in use.

pin 21: NU : - : Not in use.

pin 22: NU : - : Not in use.

pin 23: NU : - : Not in use.

pin 24: AMP ON :O: Audio power amplifier ON signal output.

pin 25: AMP MUTE :O: Muting signal output to the internal power amplifier.

pin 26: BT+1.5V ON :O: 1.5V Power supply ON signal output. H = ON.

pin 27: DSP EEP SCK :O: Clock pulse output to EEP-ROM.

pin 28: DSP EEP SDA :I/O: EEP serial data input/output.

pin 29: TEST TX :O: Serial data output for the test.

pin 30: TEST RX :IN: Serial data input for the test.

pin 31: ANT ON :O: Antenna ON signal output.

pin 32: BT RESET :O: Bluetooth reset signal output.

pin 33: BOLERO SDA :I/O: I2C serial data for BOLERO.

pin 34: BOLERO CK :O: I2C serial Clock output for BOLERO.

pin 35: BOLERO RESET: IN : Reset signal input from BOLERO.

pin 36: NU : - : Not in use.

pin 37: BOLEROREQ :IN: BOLERO request input.

pin 38: NU : - : Not in use.

pin 39: BOLERO SYS ACC: IN : SYS ACC signal input from BOLERO.

pin 40: NU : - : Not in use.

pin 41: NU : - : Not in use.

pin 42: DSP WDOG :IN: Initial setting terminal for DSP IC.

pin 43: DSP RESET :O: Reset pulse output to the DSP IC.

pin 44: ILL ON# :IN: Illumination ON signal input.

pin 45: TUN-SDA :I/O: I2BUS serial data input/output for the tuner pack.

pin 46: TUN-SCL :O: I2BUS serial clock output for the tuner

pack.

pin 47: BT HSRTSX :IN: UART/SIO, Receive flow control, L = Active, H = Inactive

pin 48: BT HSCTSX :O: UART/SIO Transmit flow control, L = Active, H = Inactive

pin 49: Sie-BUS TX :O: Sie-BUS TX serial data output.

pin 50: Sie-BUS RX :IN: Sie-BUS RX serial data input.

pin 51: NU : - : Not in use.

pin 52: NU : - : Not in use.

pin 53: NU : - : Not in use.

pin 54: ILL out :O: The illumination level output.

pin 55: SPEED PULSE :IN: Speed pulse input.

pin 56: NU : - : Not in use.

pin 57: NU : - : Not in use.

pin 58: NU : - : Not in use.

pin 59: NU : - : Not in use.

pin 60: VDD +3.3V : - : +3.3V positive voltage supply.

pin 61: BT HSCSX :O: UART/SIO Transmit flow control.

pin 62: GND : - : Ground.

pin 63: B/L ON :O: Back light ON signal output.

pin 64: VLCD ON :O: LCD power supply on signal output.

pin 65: TEL MUTE :IN: Telephone mute signal input.

pin 66: S IE MUTE IN :IN: S IE-BUS Mute request signal input.

pin 67: S IE MUTE OUT: O : S IE-BUS Mute request signal output.

pin 68: S IE RESET :O: S IE-BUS Reset signal output.

pin 69: S IE SYS ON :O: S IE-BUS System On request output.

pin 70: S IE SYS OFF :O: S IE-BUS System Off request output.

pin 71: S IE ON REQ :IN: S IE-BUS System On request input.

pin 72: S IE OFF REQ :IN: S IE-BUS System Off request input.

pin 73: SYS ON :O: System ON signal output.

pin 74: DSP ON :O: DSP ON signal output.

pin 75: VOL1 R :IN: Volume control pulse input from the rotary encoder.

pin 76: VOL2 R :IN: Volume control pulse input from the rotary encoder.

pin 77: LCD CSB# :O: Chip select signal output to the LCD driver.

pin 78: LCD SCK# :O: Serial data clock output to the LCD driver.

pin 79: LCD DATA :O: The srial data output to the LCD driver.

pin 80: LCD KEY RESET#: IN : Key reset signal input from the LCD driver.

pin 81: KEY DI :IN: Serial data input from the Key scan IC.

pin 82: KEY CE :O: Chip enable output to the Key scan IC.

pin 83: KEY CK :O: Clock pulse output for the key scan IC.

pin 84: KEY DO :O: Serial data output to the Key scan IC.

pin 85: VOL1 L# :IN: Volume control pulse input from the rotary encoder.

pin 86: VOL2 L# :IN: Volume control pulse input from the rotary encoder.

pin 87: TONE/POWER SW : IN : TONE/POWER switch signal input.

pin 88: NU : - : Not in use.

pin 89: CD EJECT SW#:IN: CD eject switch signal input.

pin 90: POWER/TONE SW : IN : POWER/TONE switch signal input.

pin 91: S REMOCON1 :IN: Remote control key signal input

pin 92: S REMOCON2 :IN: Remote control key signal input

pin 93: NU : - : Not in use.

pin 94: A VSS : - : Analog ground.

pin 95: AUX ON :IN: AUX ON flag input.

pin 96: VREF :IN: Reference voltage input.

pin 97: A VCC : - : Positive voltage supply for the internal analog section.

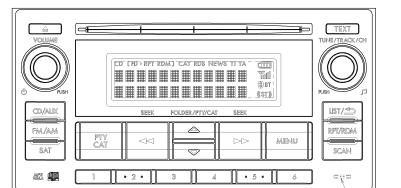
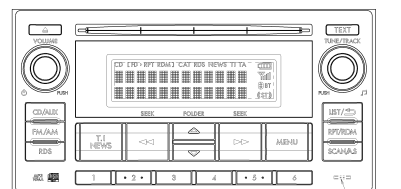
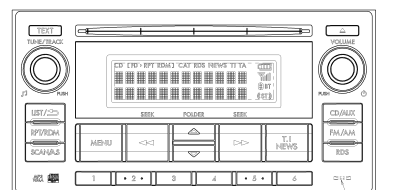
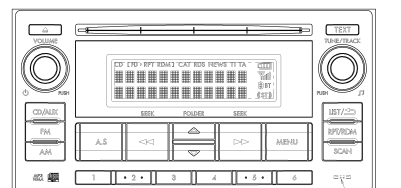
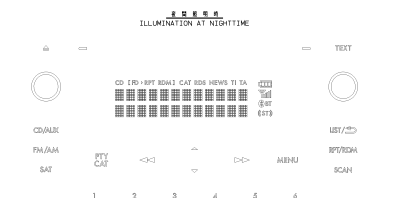
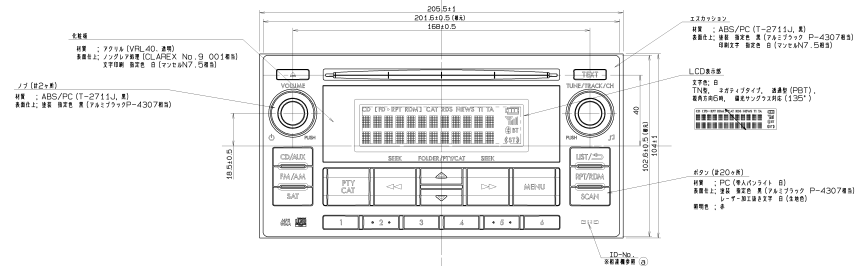
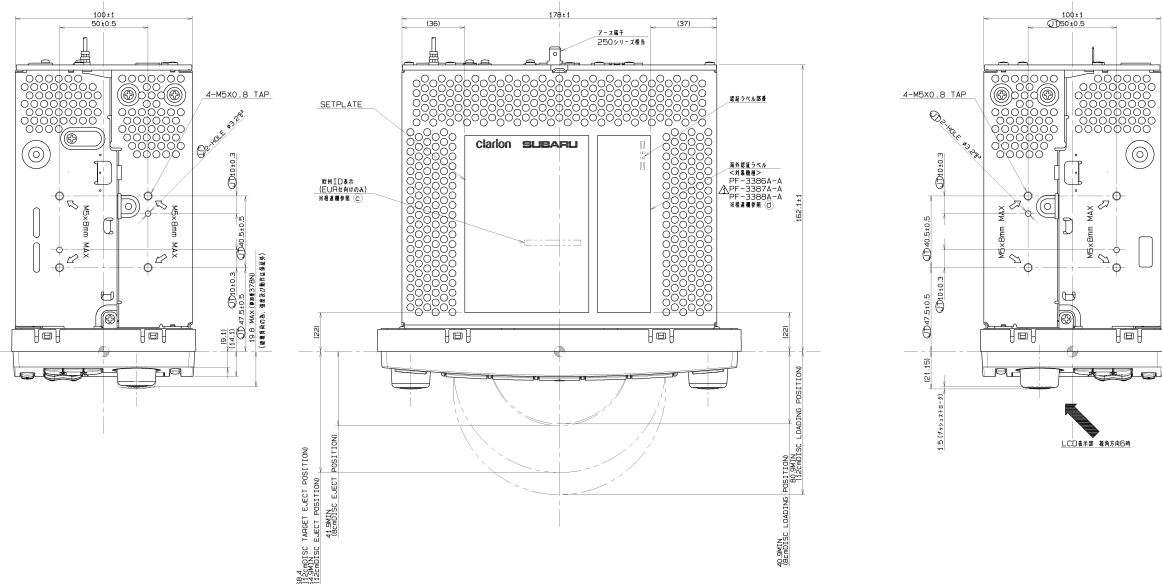
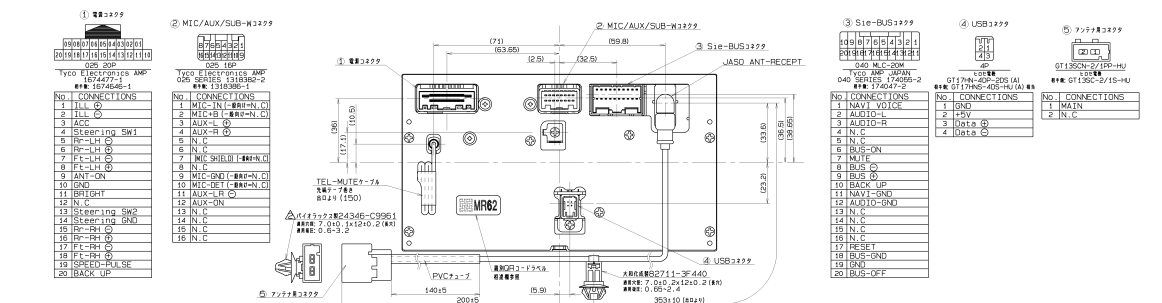
pin 98: B/T RX :IN: BT module UART data input.

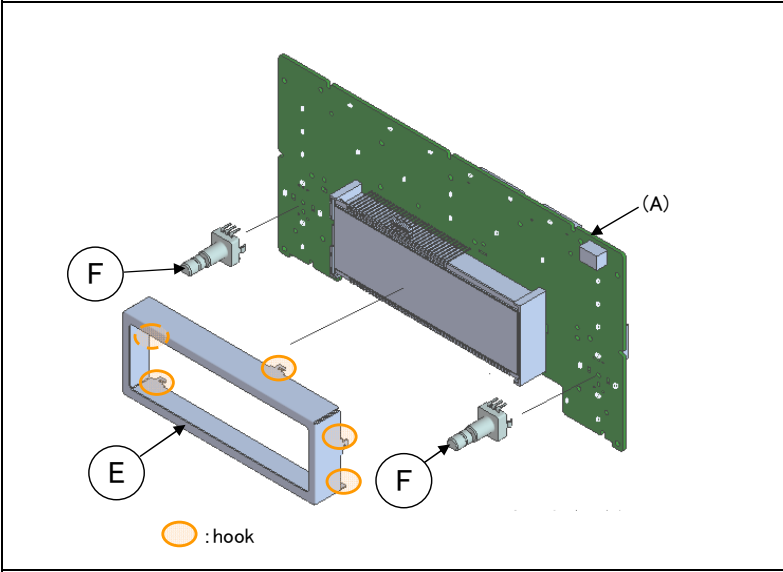
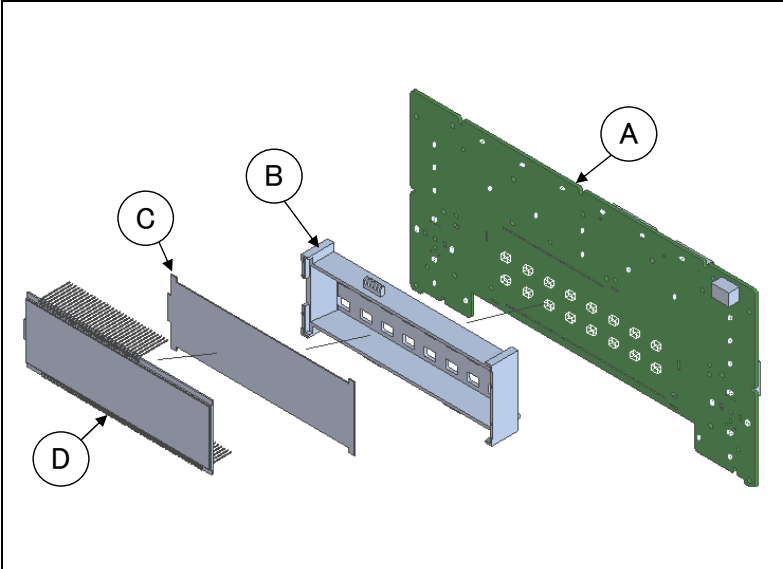
pin 99: B/T TX :O: BT module UART data output.

pin100: MIC DET :IN: MIC connection detection.

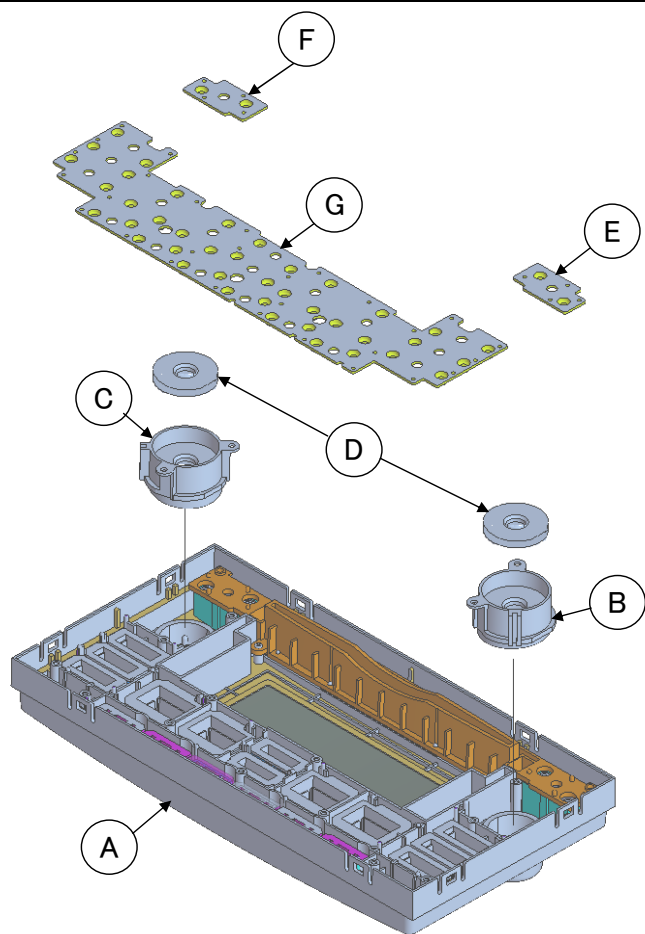
SERVICE MATERIAL
for PF-3386A-A

SERVICE MATERIAL
for PF-3386A-A (OUTSIDE VIEW)

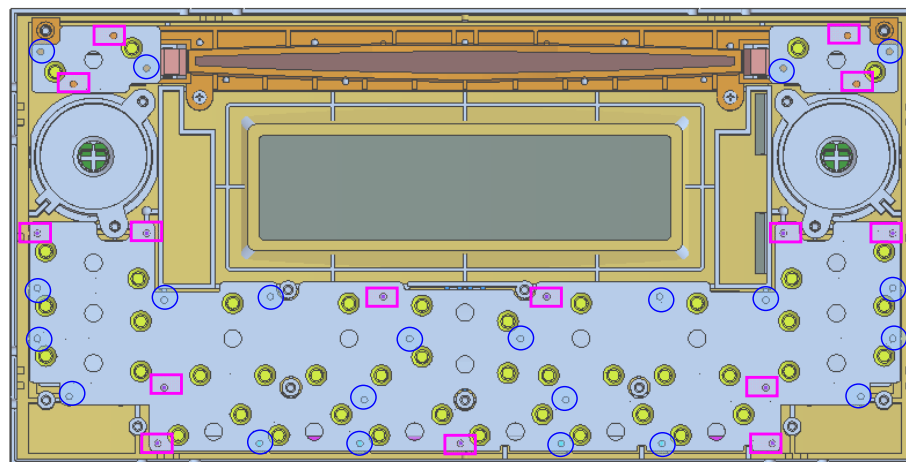


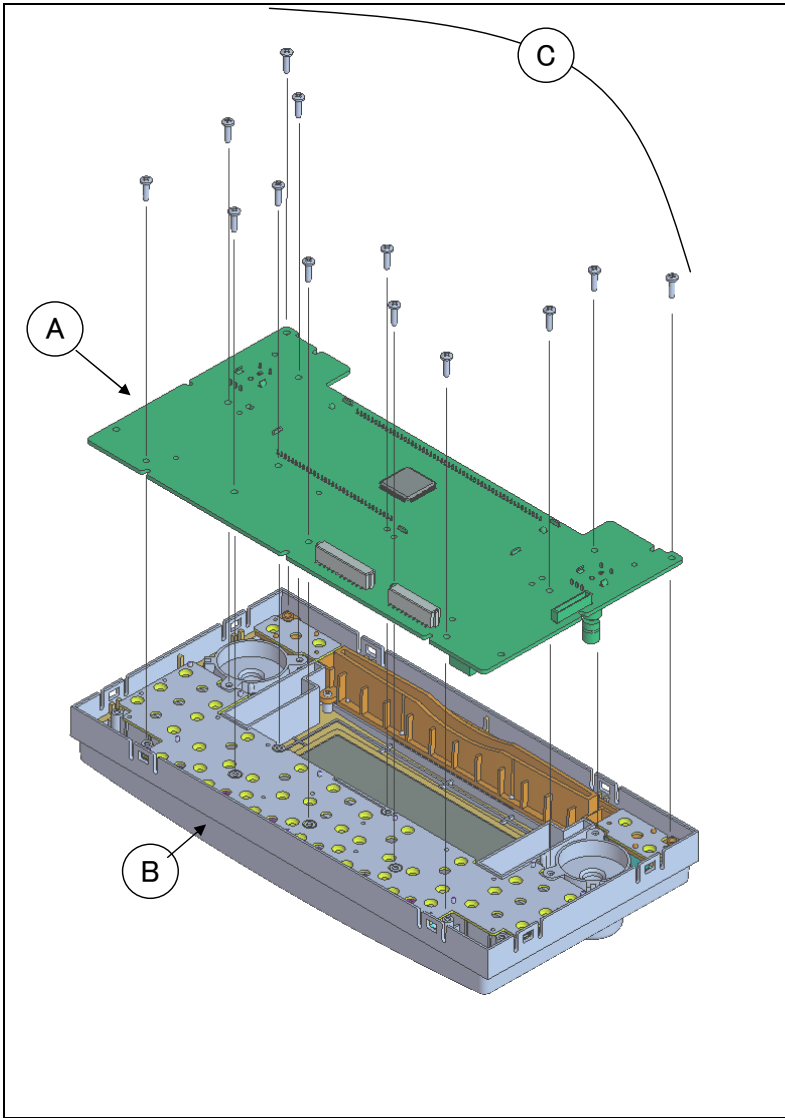


A	-	1	(3386B9-77)
B	335-8827-00	1	
C	335-8828-00	1	
D	379-1450-63	1	
E	331-4918-00	1	
F	016-0018-24	2	

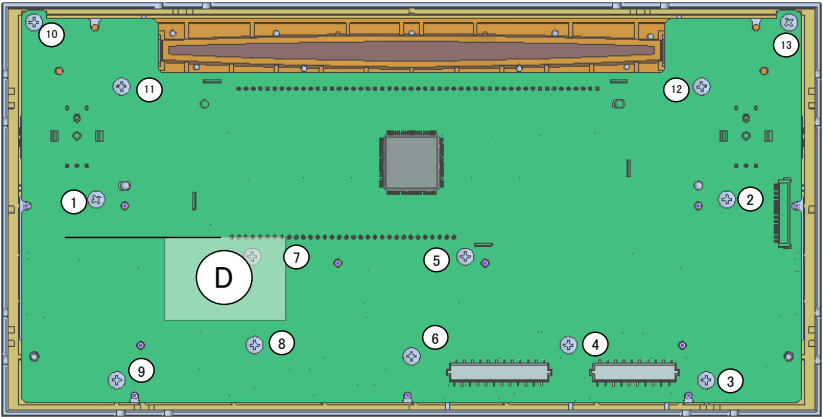


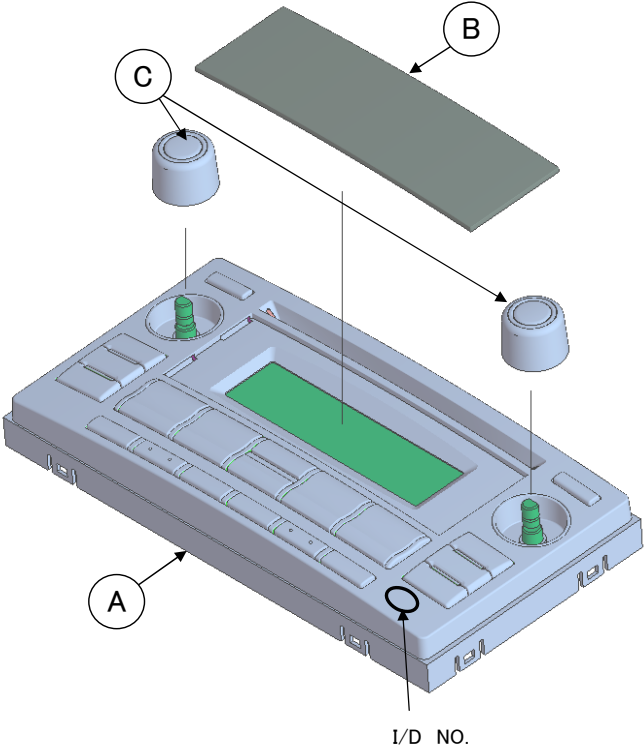
A	940-8613-31	1	
B	335-8802-00	1	
C	335-8831-00	1	
D	347-8873-00	2	
E	345-6424-00	1	
F	345-6425-00	1	
G	345-6426-00	1	





	A	-----	1	(0.3+/-0.06N m)
	B	-----	1	
	C	716-0778-52	13	
	D	345-6488-00	1	





A

1

B

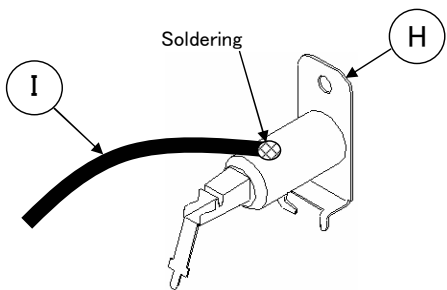
373-1194-10

1

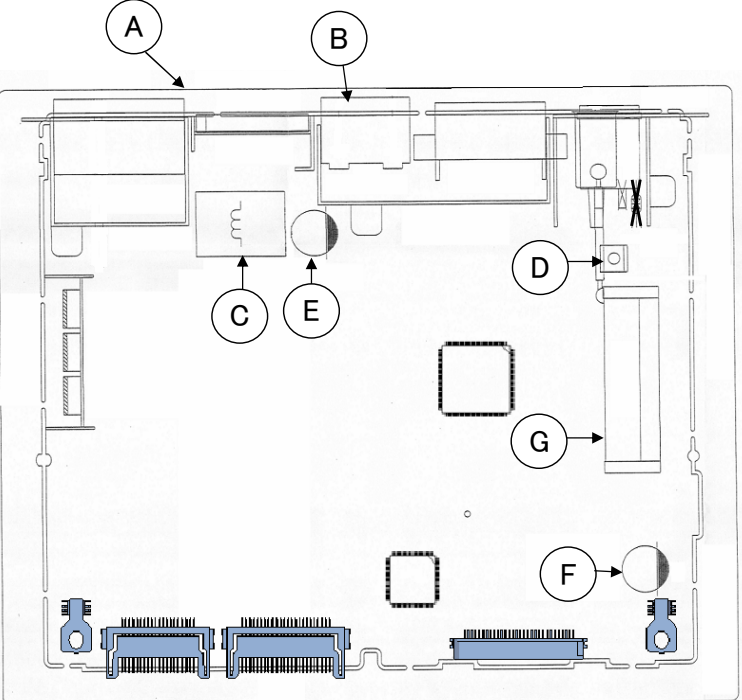
C

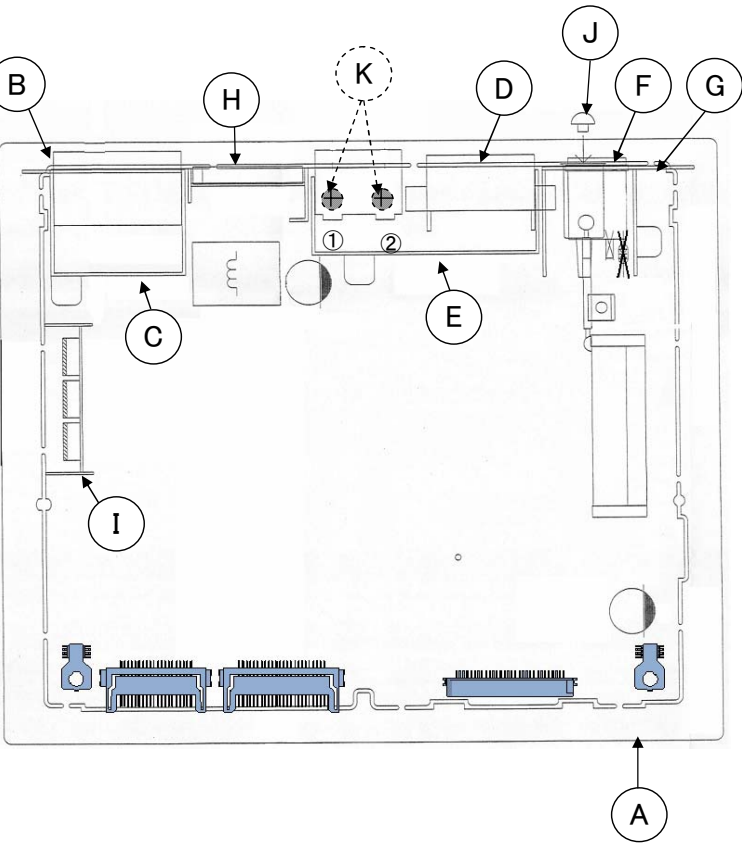
380-5771-00

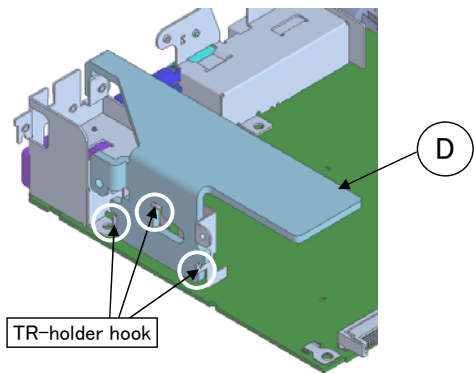
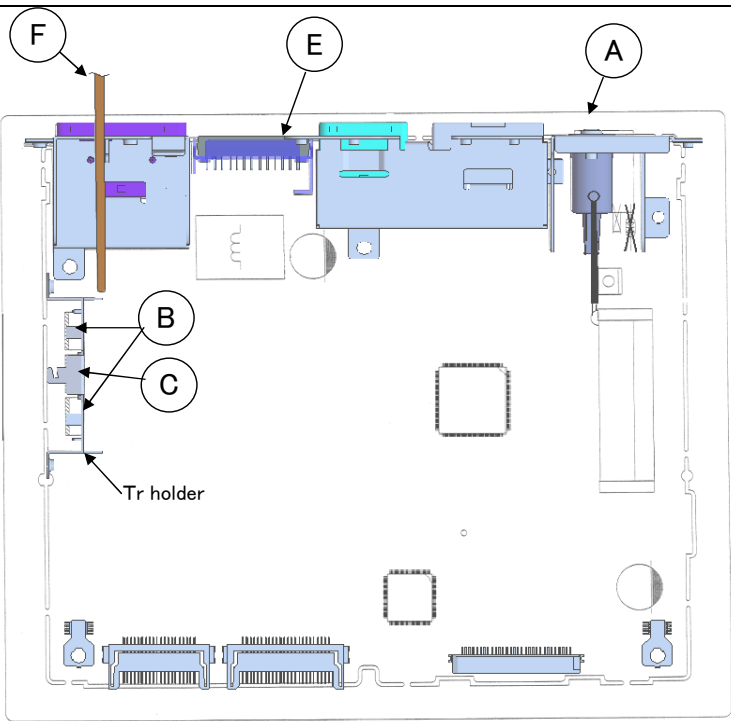
2



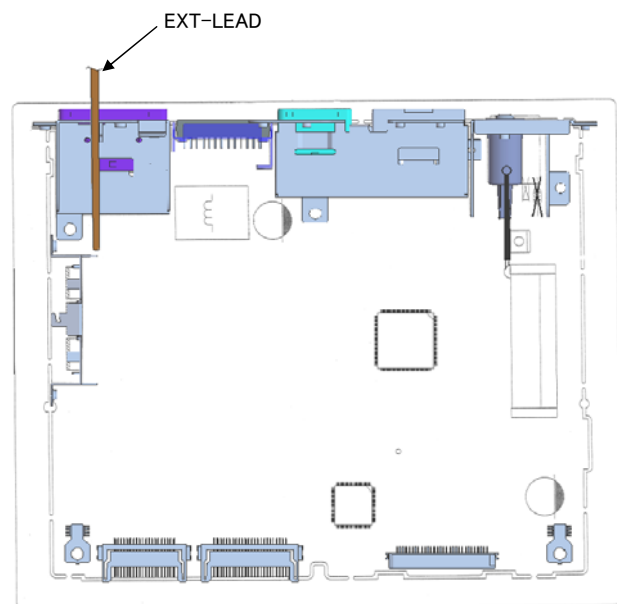
A	010-8026-00	1
B	042-1624-00	1
C	189-4783-12	1
D	051-3333-00	2
E	051-3366-00	1
F	074-1302-16	1
G	074-4009-20	1
H	092-0702-50	1
I	800-0205-00	1

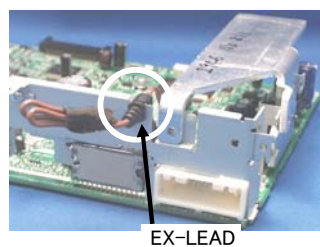
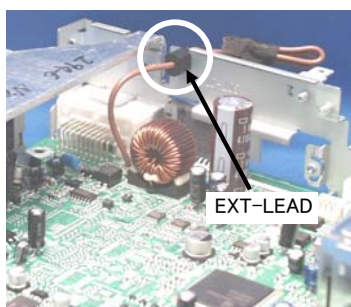
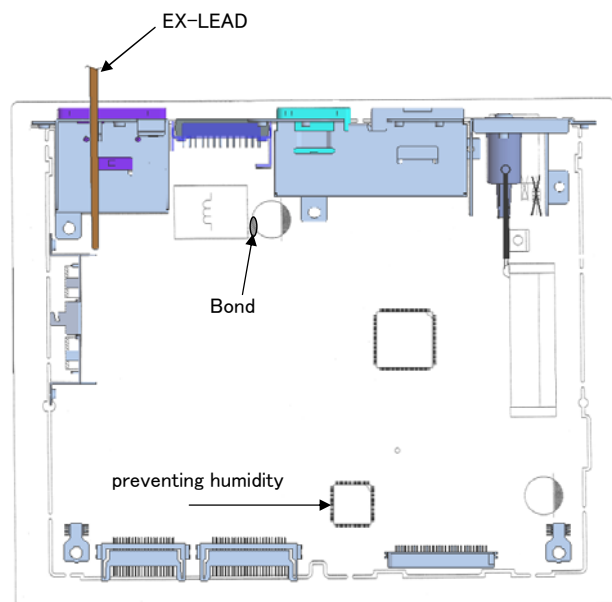
	A	-	1	(3386A9-75)
	B	(074-1302-)	(1)	
	C	(010-8026-)	(1)	
	D	010-2003-04	1	
	E	(042-1624-)	(1)	
	F	(189-4783-)	(1)	
	G	-	1	(2091EH-80)

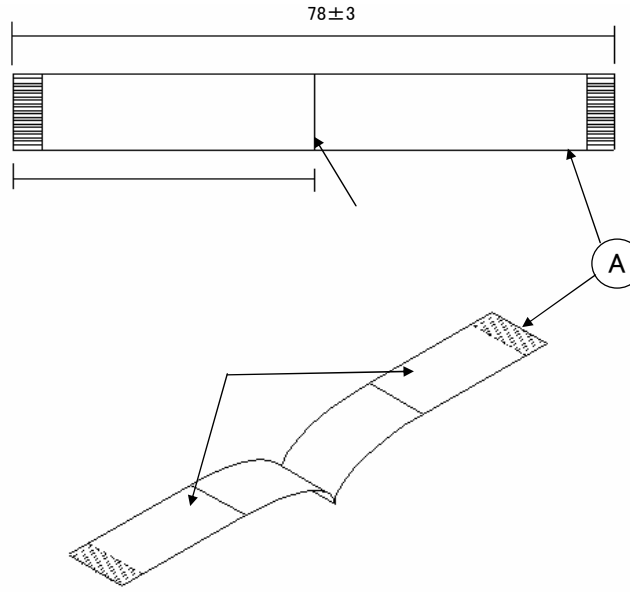
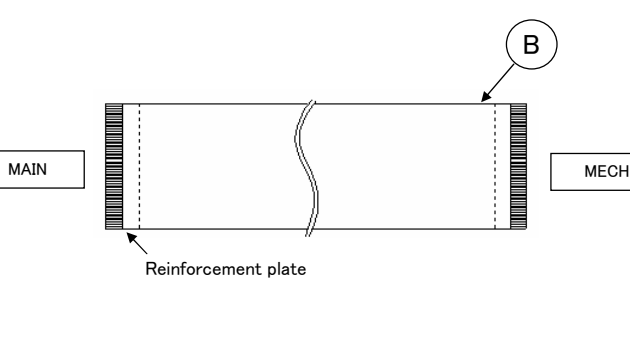
				A	-----	(1)	
				B	(074-4009-)	(1)	
				C	331-4913-00	1	
				D	074-0895-20	1	
				E	331-4914-00	1	
				F	-----	(1)	
				G	331-4915-00		
				H	331-4678-00	1	
				I	331-4414-00	1	
				J	778-3006-00	2	
				K	714-2606-8B	1	

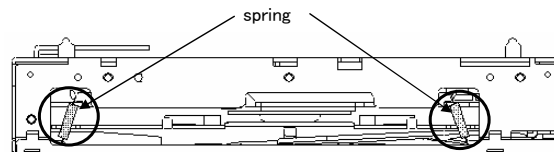
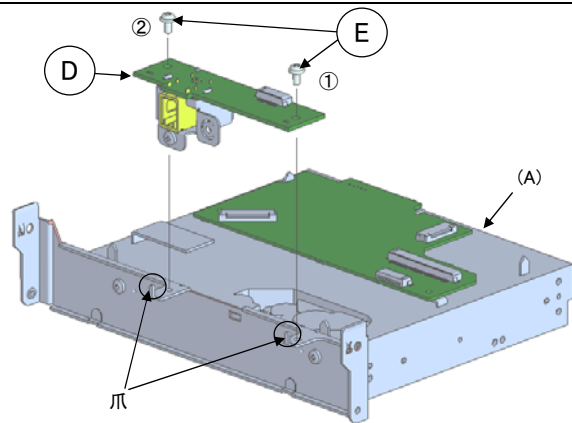
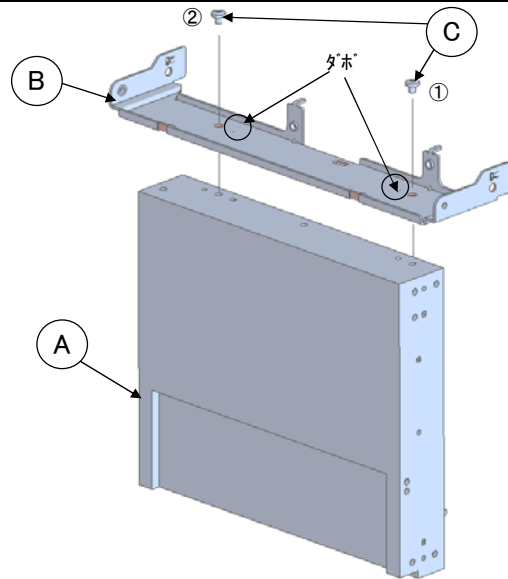


A	-----	(1)
B	(051-3333-)	(2)
C	(051-3366-)	(1)
D	313-2019-10	1
E	051-2064-00	1
F	854-7862-50	1

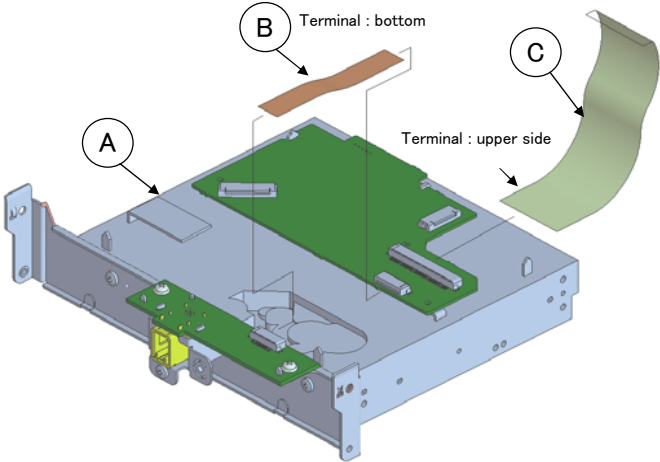
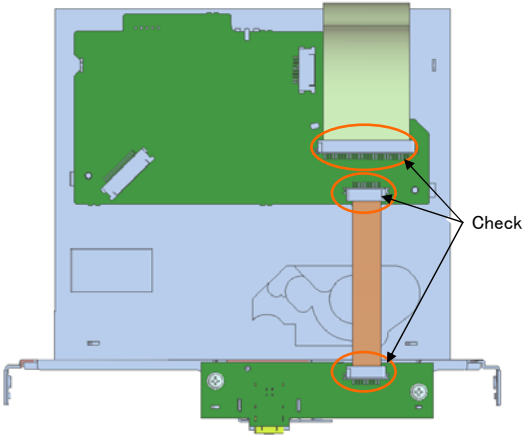


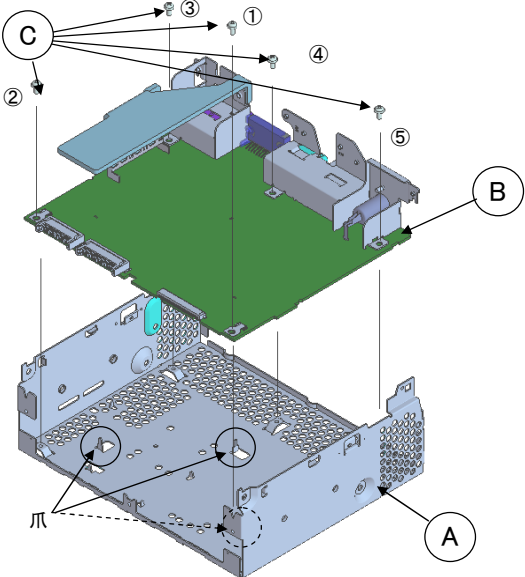
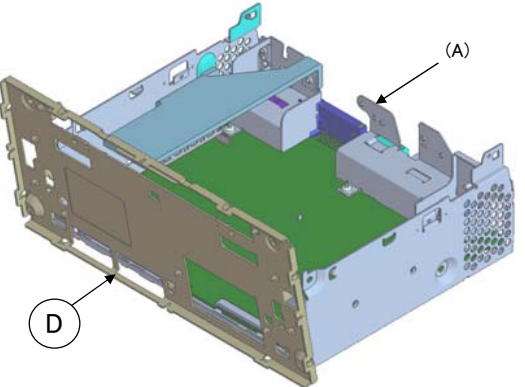
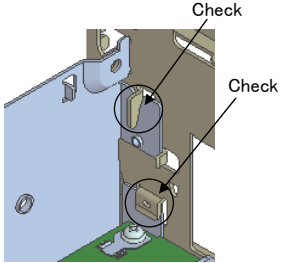


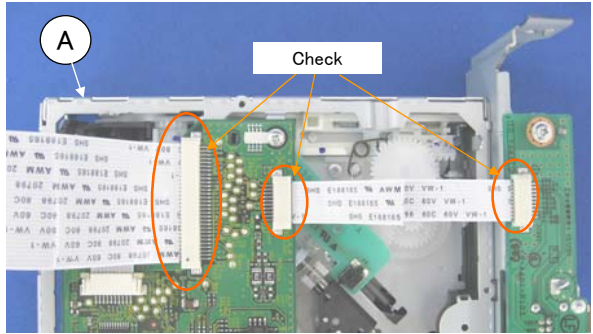
 78±3 A					
 MAIN MECH Reinforcement plate B			A 816-4068-50	1	
			B 816-4069-50	1	



A	929-5036-80	1	
B	331-4916-00	1	
C	714-2603-89	2	1=>2 0.4+/-0.08Nm
D	-	1	(3293AH-79)
E	716-0878-50	2	1=>2 0.4+/-0.08Nm

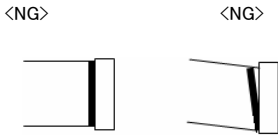
		A	-----	(1)	
		B	(816-4068-)	(1)	<NG>  <NG> 
		C	(816-4069-)	(1)	

		A311-1996-011 B-----1 C716-0878-505	 1=>2=>3=>4=>5 0.4+/-0.08Nm
		D309-1910-001	

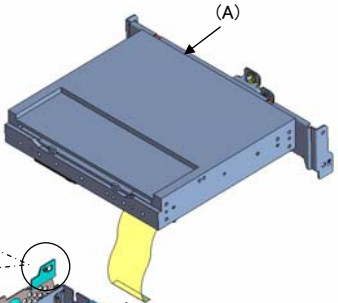
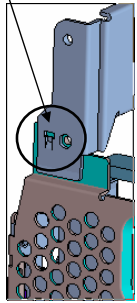


A

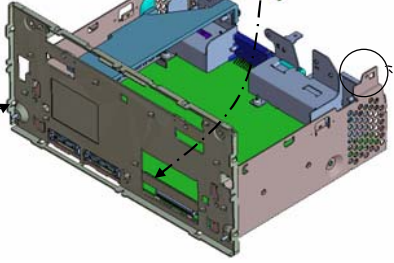
1



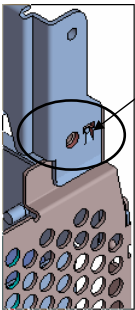
CHeck



B

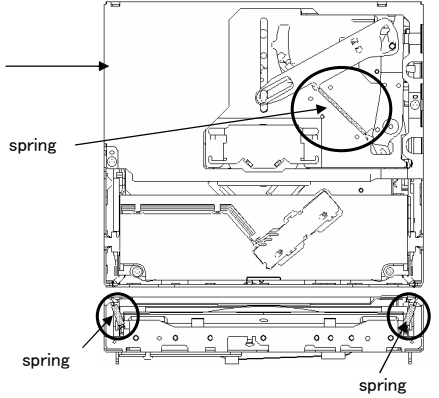


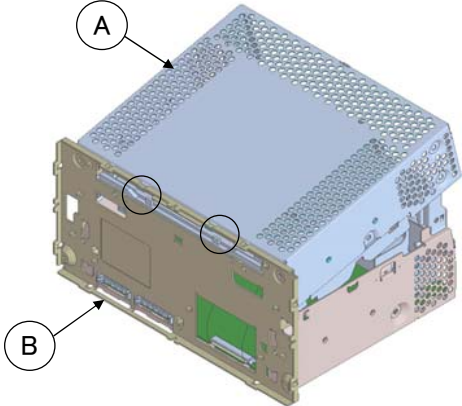
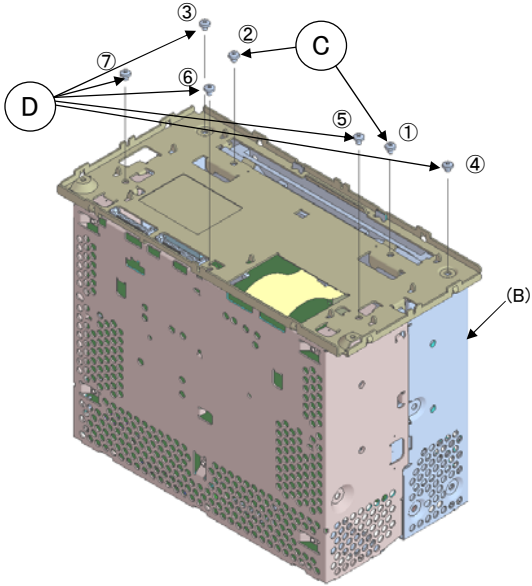
Check

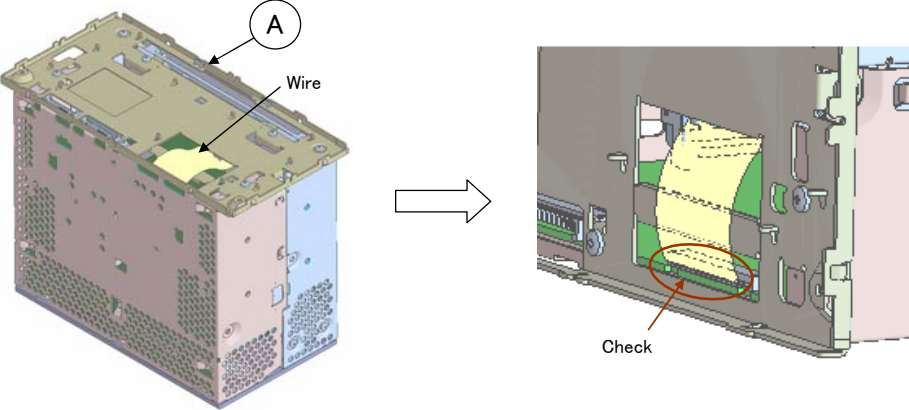
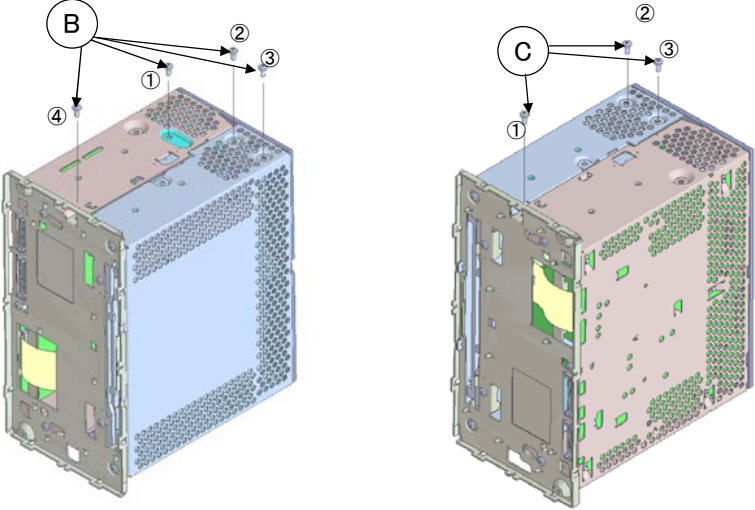


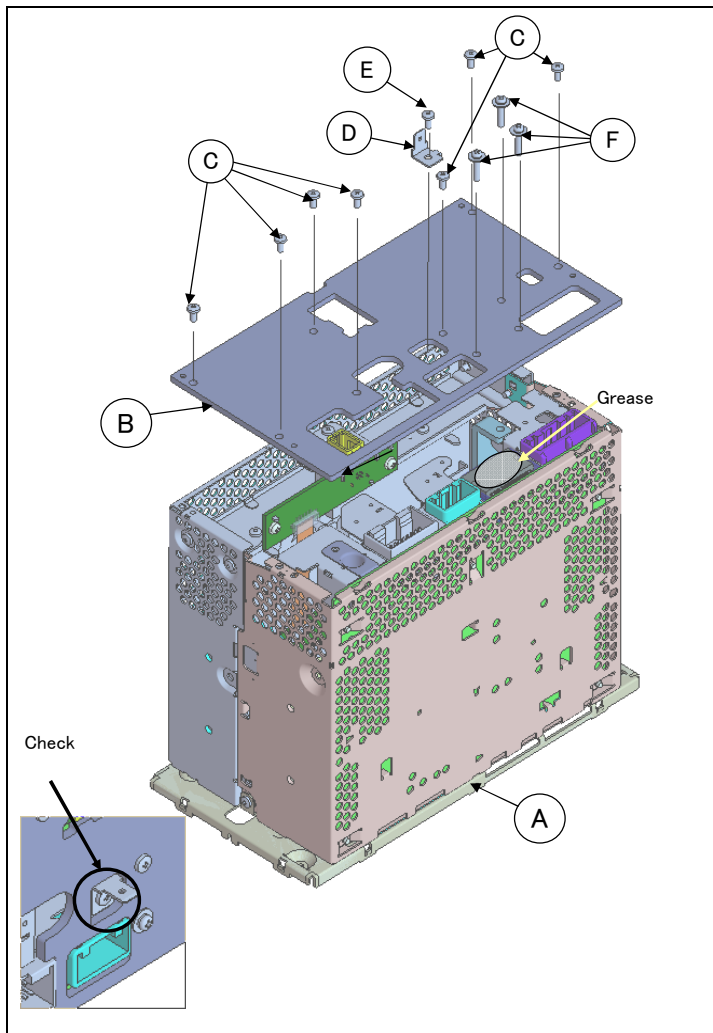
B

1



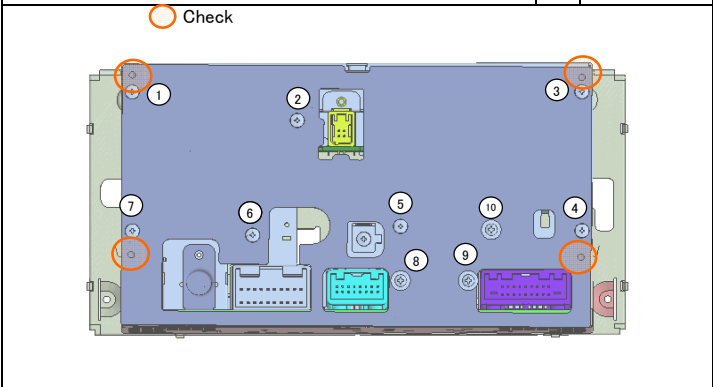
		A B	310-1920-01 -----	1 (1)	
		(B) (B) C D	----- 714-2603-89 714-2606-8B	(1) (1) 2 5	 BLK 1=>2 0.4+/-0.08Nm GRY 3=>4=>5=>6=>7 0.4+/-0.08Nm

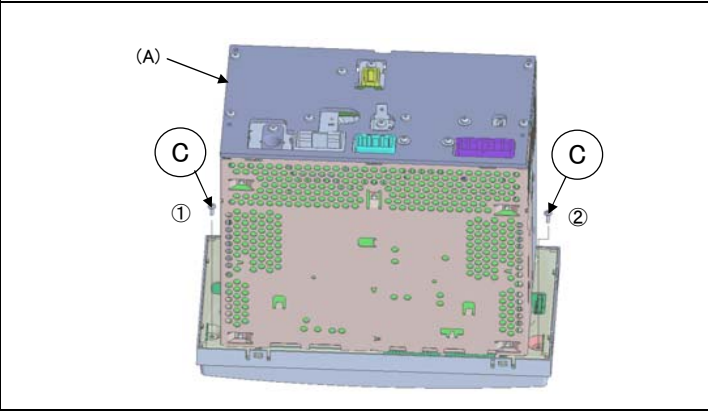
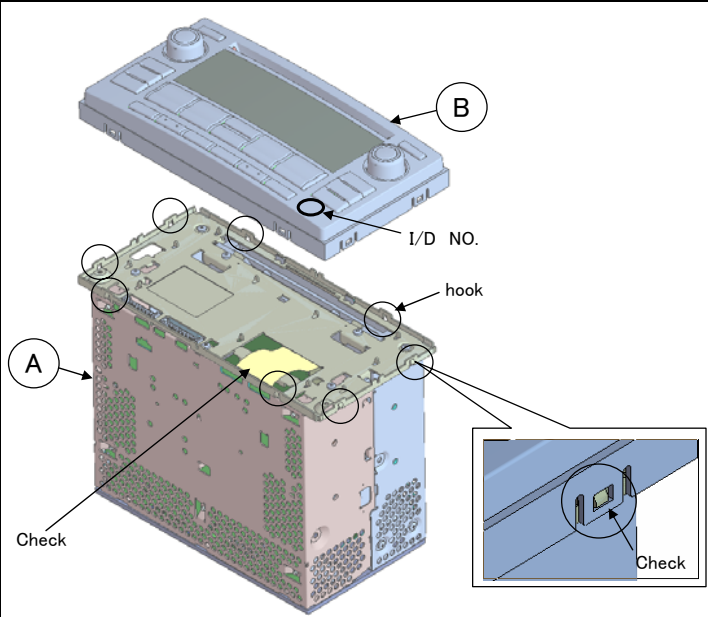
 Diagram A shows the top view of a device chassis with a wire being inserted into a slot. An arrow points to a side view where the wire is being checked for proper seating.		A	-----	(1)
 Diagram B shows the front view of a device chassis with four screws labeled 1, 2, 3, and 4. Diagram C shows the side view of the same chassis with screws 1, 2, and 3.	1=>2=>3=>4 0.4+/-0.08Nm 1=>2=>3 0.4+/-0.08Nm	B C	714-2606-8B 714-2606-8B	4 3



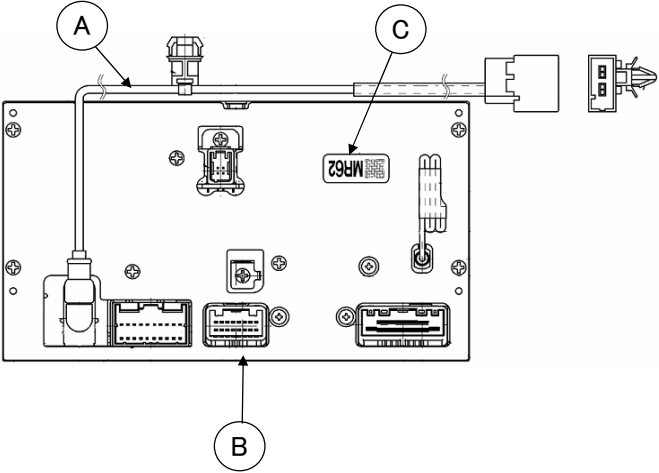
A	-----	1	
B	313-2096-00	1	Dowel : Four points
C	714-2606-8B	7	GRAY 1=>2=>3=>4=>5=>6=>7 0.4+/-0.08Nm
D	331-3579-20	1	
E	714-2606-8B	1	GRAY 0.4+/-0.08Nm
F	735-2614-1B	3	8=>9=>10 0.4+/-0.08Nm

Check





A	-----	(1)	
B		1	Hook : 8 points (3386A0-45)
C	716-0778-52	2	1=>2 0.3+/-0.06Nm

		A	093-2195-00	1	
		B	-----	(1)	
		(B)	-----	(1)	
		C	290-0548-14	1	