

Service Manual

Telephone Equipment

KX-TG2240BXS
KX-TGA228BXS

Digital Cordless Phone

Silver Version

(for Asia, Middle Near East and Other Areas)

Supplement-1

Please file and use this supplement manual together with the service manual mentioned below.

Model No.	Order No.	Sup. No.	Countries/Areas
KX-TG2240BXS/KX-TGA228BXS	KM40309201C3	1	Asia, Middle Near East and Other Areas

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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Panasonic

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1 CHANGES (for RoHS)

1.1. SUBJECT

Important Notice (especially in those countries belonging to the European Union):

Some of the new parts introduced by this document are the parts which now comply with the national laws transposed from the EU Directive on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment, effective 1st July 2006 in the EU countries.

In order for the product to comply with the RoHS Directive, the six particular substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, and polybrominated diphenyl ethers) have been either totally eliminated or limited to the concentration level below maximum allowed. Consequently spare parts have been changed to RoHS-compliant parts where applicable.

To ensure compliance with the spare parts application of the RoHS legislation, please make sure to follow the details provided in this manual in ordering spare parts and carrying out repairs.

1.2. REPLACEMENT PARTS LIST

1.2.1. REFERENCE CHART

Reason for Change	
*The following items (1-8) indicate the reason for change. See the "Notes" column for each part in ORIGINAL AND NEW PARTS COMPARISON LISTS .	
1. Improve performance	Remarks: For RoHS-compliant parts marked by *R *1 Use only RoHS parts for the production sets which serial No. labels are after 6CXXXXXXXXXX. *2 Either original or RoHS parts can be used for the production sets which serial No. labels are before 6BXXXXXXXXXX.
2. Change of material or dimension	
3. To meet approved specification	
4. Standardization	
5. Addition	
6. Deletion	
7. Correction	
8. Other	

Interchangeability Code		
**The following items (V-Z) indicate the Interchangeability. See the "Notes" column for each part in ORIGINAL AND NEW PARTS COMPARISON LISTS .		
V	Original	Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.
W	Original	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
X	Original	New parts only may be used in early or late production sets. Stock new parts.
Y	Original	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
Z	Other	

Note:

Confirm the interchangeability of original and new parts with the serial No. label of the production set.

	Serial No. Label	Interchangeability Code
*1	(Example) 6CCQA001001 	X
*2	(Example) 6BCQA001001 	W

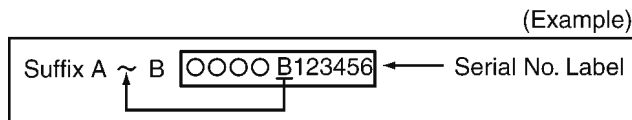
1.2.2. ORIGINAL AND NEW PARTS COMPARISON LISTS

Change of the Suffix Code

• Base Unit

Suffix Code	Reasons of change
A to B	Due to revision of suffix of handset (A to B). There is no change in the replacement parts list.

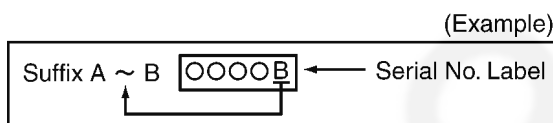
Serial No.Label tells you the suffix code as follows



• Handset

Suffix Code	Reasons of change
A to B	To share with other models, so that there is no change in the replacement parts list.

Serial No.Label tells you the suffix code as follows








(for KX-TG2240BXS/KX-TGA228BXS)





Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Remarks	Notes	Time of Change (Suffix)
	Original (Old)	New					
BASE UNIT							
7	PQSA10098X	PQSA10098P	Antenna	1	*R	8	-
21	-----	PQGT17109Z	Name Plate (Made in Indonesia)	1	-	5	-
PCB1	PQWP12240BXH	PQWP2240BXHR	Main P.C. Board Ass'y (RTL)	1	*R	8	-
IC201	C2HBBK000009	C2HBBK000071	IC	1	*R	8	-
IC300	PQWIG2240BXH	PQWI2240BXHR	IC	1	*R	8	-
IC332	C0EBE0000283	C0EBE0000493	IC	1	*R	8	-
Q3	B1BBAP000011	B1BBAP000021	Transistor (Si)	1	*R	8	-
D101	PQVDHRU0302A	MA2Z74800L	Diode (Si)	1	*R	8	-
D102	PQVDHRU0302A	MA2Z74800L	Diode (Si)	1	*R	8	-
D103	PQVDHRU0302A	MA2Z74800L	Diode (Si)	1	*R	8	-
L801	MQLRF10NJF	MQLRF10NJFB	Coil	1	*R	8	-
L804	MQLRF10NJF	MQLRF10NJFB	Coil	1	*R	8	-
L805	MQLRF2N2DF2	MQLRF2N2DFB	Coil	1	*R	8	-
L806	MQLRF10NJF	MQLRF10NJFB	Coil	1	*R	8	-
CN1	PQJ2H003Z	K2LD104A0001	Jack	1	*R	8	-
C3	ECUE1A473KBQ	ECJ0EB1A473K	Capacitor, 0.047µF	1	*R	8	-
C823	ECSTAJ0JA106	F3F0J106A057	Capacitor, 10µF	1	*R	8	-
C833	ECSTAJ0JA106	F3F0J106A057	Capacitor, 10µF	1	*R	8	-
E3	L0CBAB000044	L0CBAB000106	Microphone	1	-	7	-
A	XTW26+14P	XTW26+14PFJ7	Screw	6	*R	8	-
B	XTW26+8P	XTW26+8PFJ7	Screw	1	*R	8	-
C	XTW26+8P	XTW26+8PFJ7	Screw	7	*R	8	-
H	XTW26+14P	XTW26+14PFJ7	Screw	1	*R	8	-
I	XTW26+8P	XTW26+8PFJ7	Screw	3	*R	8	-
HANDSET							
106	PQSA10125Z	PQSA10125S	Antenna	1	*R	8	-
108	-----	PQGT17123Z	Name Plate (Made in Indonesia)	1	-	5	-
PCB100	PQWPG2260BXR	PQWP2260BXRR	Main P.C. Board Ass'y (RTL)	1	*R	8	-
IC201	C2HBBJ000038	C2HBBJ000051	IC	1	*R	8	-
IC205	C0EBE0000292	C0EBE0000483	IC	1	*R	8	-
IC206	COCBAAC00119	-----	IC	1	-	6	-
L801	MQLRF10NJF	MQLRF10NJFB	Coil	1	*R	8	-
L804	MQLRF10NJF	MQLRF10NJFB	Coil	1	*R	8	-
L805	MQLRF2N2DF2	MQLRF2N2DFB	Coil	1	*R	8	-
L806	MQLRF10NJF	MQLRF10NJFB	Coil	1	*R	8	-
R217	ERJ3GEYF434	D1BB4303A055	Resistor, 430kΩ	1	*R	8	-
R218	ERJ3GEYF824	D1BB8203A055	Resistor, 820kΩ	1	*R	8	-
C301	ECUE0J105ZFQ	-----	Capacitor, 1µF	1	-	6	-

Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Remarks	Notes		Time of Change (Suffix)
	Original (Old)	New						
C302	ECST0JZ106R	-----	Capacitor, 10 μ F	1	-	6	-	-
E101	L0CBAB000044	L0CBAB000106	Microphone	1	*R	8	-	-
D	XTW26+12P	PQHV2612PJ65	Screw	2	*R	8	-	-
E	XTW26+12P	PQHV2612PJ65	Screw	1	*R	8	-	-
F	XTB26+9J	XTB26+9JFJ	Screw	2	*R	8	-	-
G	XTW2+R10P	XTB26+9JFJ	Screw	2	*R	8	-	-
ACCESSORIES AND PACKING MATERIALS								
A1	PQLV19BXZ	PQLV19BXY	AC Adaptor Δ	1	*R	8	-	-
P3	-----	PQPK14439Z	Gift box (Made in Indonesia)	1	-	5	-	-

1.2.3. CABINET AND ELECTRICAL PARTS (Base Unit) (Changed from original section 24 CABINET AND ELECTRICAL PARTS (Base Unit))

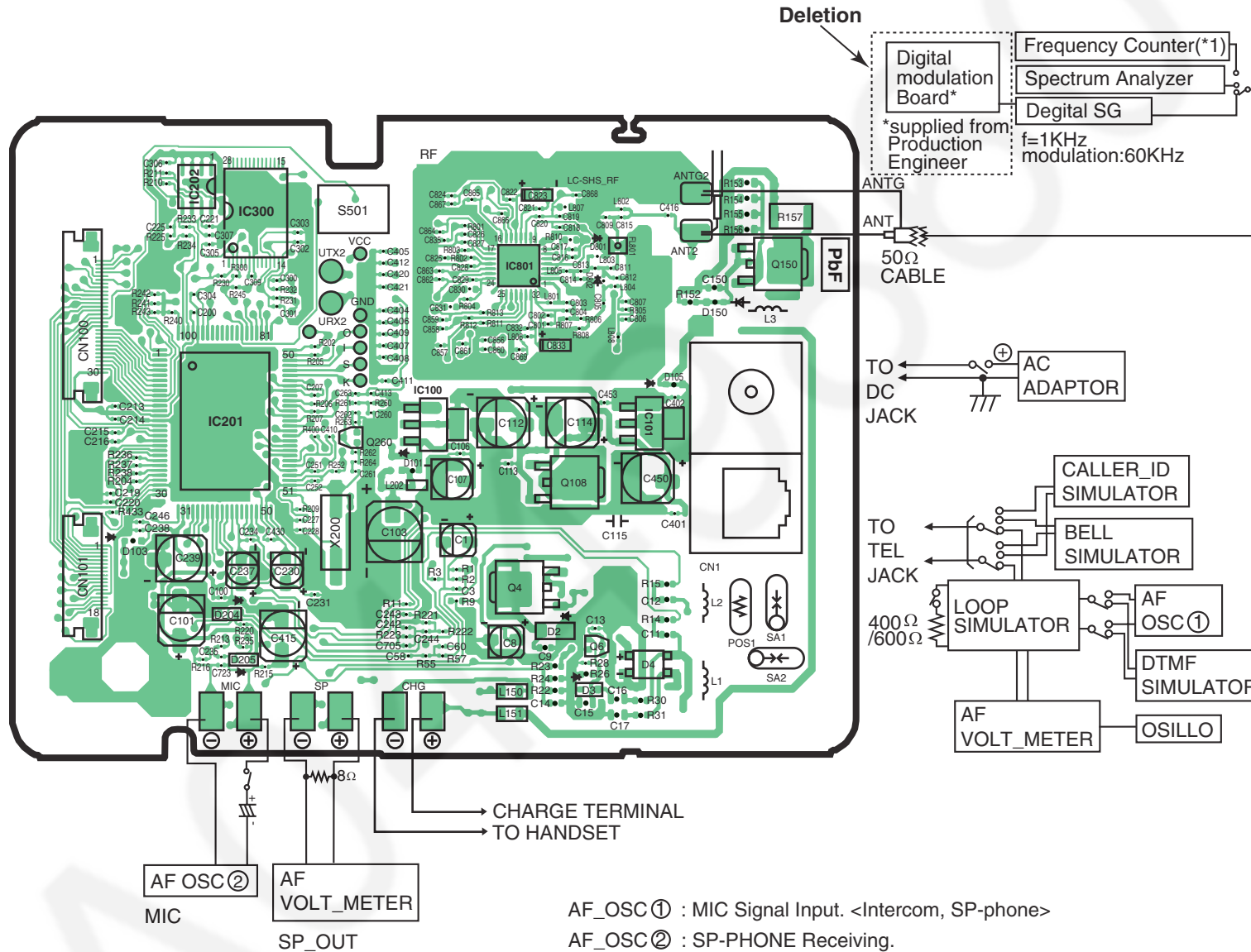
Ref.No.	Part No.	Figure
Addition →	A XTW26+14P XTW26+14PFJ7	 2.6 ϕ \times 14mm
Addition →	B XTW26+8P XTW26+8PFJ7	 2.6 ϕ \times 8mm
Addition →	C XTW26+8P XTW26+8PFJ7	 2.6 ϕ \times 8mm
Addition →	H XTW26+14P XTW26+14PFJ7	 2.6 ϕ \times 14mm
Addition →	I XTW26+8P XTW26+8PFJ7	 2.6 ϕ \times 8mm

1.2.4. CABINET AND ELECTRICAL PARTS (Handset) (Changed from original section 25 CABINET AND ELECTRICAL PARTS (Handset))

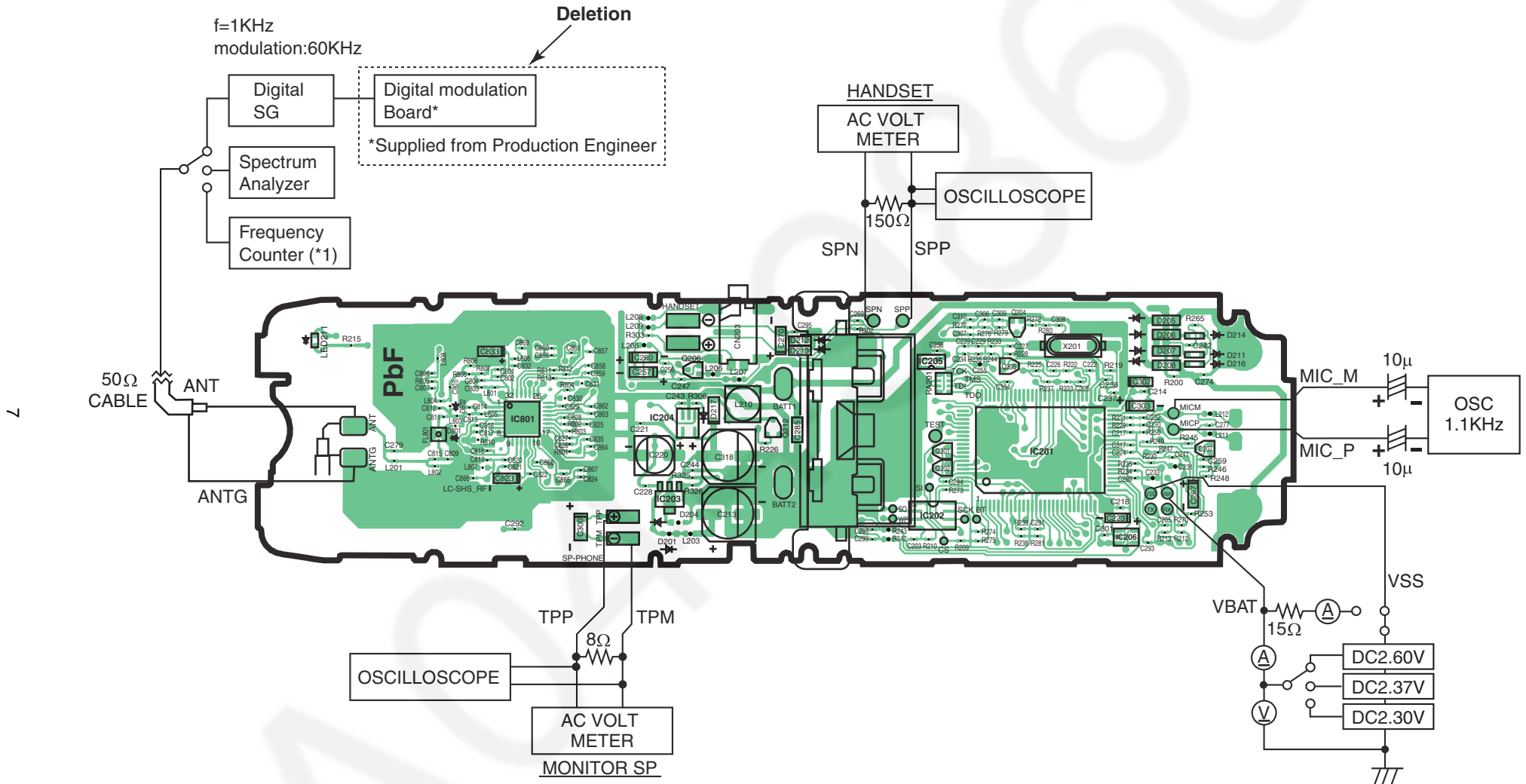
Ref.No.	Part No.	Figure
Addition →	D XTW26+12P PQHV2612PJ65	 2.6 ϕ \times 12mm
Addition →	E XTW26+12P PQHV2612PJ65	 2.6 ϕ \times 12mm
Addition →	F XTB26+9J XTB26+9JFJ	 2.6 ϕ \times 9mm
Addition →	G XTW2+R10P XTW2+R10PFJ	 2 ϕ \times 10mm

2 CORRECTION

2.1. Base Unit Reference Drawing (Changed from original section 12.5. Base Unit Reference Drawing)



2.2. Handset Reference Drawing (Changed from original section 12.6. Handset Reference Drawing)



2.3. main (Changed from original section 30.1. main)

