

# Service Manual

Telephone Equipment

*Supplement*

Model No.

KX-TG6512B/KX-TG6513B/  
 KX-TG6521GB/KX-TG6522GB/  
 KX-TG6551BXT/KX-TG6551JTT/  
 KX-TG6561JTT/KX-TG6551SPM/  
 KX-TG6561BXT/KX-TG6571FRM/  
 KX-TG6571FRT/KX-TG6571JTM/  
 KX-TG6571SLM/KX-TG6571SPM/  
 KX-TG6751SPB/KX-TG6761GB/  
 KX-TG6811BXB/KX-TG6812BXB/  
 KX-TG6821BXB/KX-TG6822BXB/  
 KX-TG6881BXB/KX-TG6841BXB/  
 KX-TG9471B/KX-TGD210LCB/  
 KX-TGD212LCB/KX-TGA651EXB/  
 KX-TGA651EXF/KX-TGA651EXM/  
 KX-TGA651EXT/KX-TGA939T

Expandable Digital Cordless Phone  
 Expandable Digital Cordless Answering  
 System

Digital Cordless Phone

Digital Cordless Answering System

Digital Corded/Cordless Answering  
 System

B: Black Version

F: Light Blue Version

M: Metallic Grey Version

T: Titanium Black Version

Please use this manual with the original service manual mentioned on the next page.

## 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.

**Panasonic**<sup>®</sup>

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






# 1 ORIGINAL SERVICE MANUAL INFORMATION

Model No. on S/M	Destinations	Order No. of S/M	Suffix Code	
			Base Unit	Handset
KX-TG6512B/KX-TG6513B/KX-TGA652B	U.S.A.	KM41001024CE	---	---
KX-TG6521GB/KX-TG6521GN/KX-TG6522GB/KX-TG6522GN/KX-TG6523GB/KX-TG6523GN/KX-TG6524GN/KX-TGA651EXB/KX-TGA651EXN	Germany	KM41002032CE	---	---
KX-TG6551BXT/KX-TGA651BXT	Middle Near East and Other Areas	KM41009238CE	---	---
KX-TG6551JTT/KX-TGA650EXT/KX-TGA651EXTT	Italy	KM41009257CE	---	---
KX-TG6551SPM/KX-TGA650EXM/KX-TGA651EXM	Spain and Portugal	KM41009272CE	---	---
KX-TG6561BXT/KX-TGA651BXT	Middle Near East and Other Areas	KM41009239CE	---	---
KX-TG6561JTT/KX-TGA651EXT	Italy	KM41012303CE	---	---
KX-TG6571FRM/KX-TGA659EXM	France	KM41011297CE	---	---
KX-TG6571FRT/KX-TGA659EXT	France	KM41107078SE	---	---
KX-TG6571JTM/KX-TGA659EXM	Italy	KM41011293CE	---	---
KX-TG6571SLM/KX-TGA659EXM	Switzerland	KM41104358CE	---	---
KX-TG6571SPM/KX-TGA659EXM	Spain	KM41011298CE	---	---
KX-TG6502NLM/KX-TGA650EXM/KX-TGA651EXM	Netherlands	KM41011561SE	---	---
KX-TG6511ARB/KX-TGA650EXB/KX-TGA651EXB	Austria	KM41004108CE	---	---
KX-TG6511BLB/KX-TG6512BLB/KX-TG6513BLB/KX-TGA650EXB/KX-TGA651EXB	Belgium	KM41006153CE	---	---
KX-TG6511FRB/KX-TG6512FRB/KX-TGA650EXB/KX-TGA651EXB	France	KM41002037CE	---	---
KX-TG6511GB/KX-TG6511GN/KX-TG6512GB/KX-TG6512GN/KX-TGA650EXB/KX-TGA650EXN/KX-TGA651EXB/KX-TGA651EXN	Germany	KM41002033CE	---	---
KX-TG6511GRB/KX-TG6511GRM/KX-TG6512GRB/KX-TGA651EXB/KX-TGA651EXM	Greece	KM41004097CE	---	---
KX-TG6511JTB/KX-TG6511JTF/KX-TG6512JTB/KX-TGA650EXB/KX-TGA650EXF/KX-TGA651EXB/KX-TGA651EXF	Italy	KM41003046CE	---	---
KX-TG6511MBB/KX-TG6512MBB/KX-TG6513MBB/KX-TGA651MBB/KX-TGA651EXB	Barclay	KM41009251CE	---	---
KX-TG6511NEB/KX-TG6511NEM/KX-TG6512NEB/KX-TG6512NEM/KX-TG6513NEB/KX-TG6513NEM/KX-TGA650EXB/KX-TGA650EXM/KX-TGA651EXB/KX-TGA651EXM	Nordic Countries	KM41003050CE	---	---
KX-TG6511NLB/KX-TG6512NLB/KX-TG6513NLB/KX-TGA650EXB/KX-TGA651EXB	Holland	KM41003054CE	---	---
KX-TG6511SLB/KX-TGA650EXB/KX-TGA651EXB	Switzerland	KM41006122CE	---	---
KX-TG6511SPB/KX-TG6511SPM/KX-TG6512SPB/KX-TG6512SPM/KX-TGA650EXB/KX-TGA650EXM/KX-TGA651EXB/KX-TGA651EXM	Spain	KM41003048CE	---	---
KX-TG6511TRB/KX-TG6511TRM/KX-TGA650EXB/KX-TGA650EXM/KX-TGA651EXB/KX-TGA651EXM	Turkey	KM41004100CE	---	---
KX-TG6521ARB/KX-TG6522ARB/KX-TGA651EXB	Austria	KM41004109CE	---	---
KX-TG6521BLB/KX-TGA651EXB	Belgium	KM41006154CE	---	---
KX-TG6521FRB/KX-TG6522FRB/KX-TG6523FRB/KX-TGA651EXB	France	KM41002036CE	---	---
KX-TG6521GRB/KX-TGA651EXB	Greece	KM41004091CE	---	---
KX-TG6521MBB/KX-TGA651MBB/KX-TGA651EXB	Barclay	KM41009253CE	---	---
KX-TG6521NLB/KX-TG6522NLB/KX-TG6523NLB/KX-TGA651EXB	Holland	KM41003055CE	---	---
KX-TG6521SPF/KX-TGA651EXF	Spain	KM41003047CE	---	---
KX-TG6532NLM/KX-TGA651EXM	Netherlands	KM41011560SE	---	---
KX-TG6751SPB/KX-TGA671EXB/KX-TGA672EXB/KX-TGA405EXB	Spain and Portugal	KM41211634CE	---	---
KX-TG6761GB/KX-TGA671EXB/KX-TGA672EXB/KX-TGA405EXB	Germany	KM41210628CE	---	---
KX-TG6811BxB/KX-TG6812BxB/KX-TG6821BxB/KX-TG6822BxB/KX-TG6881BxB/KX-TGA681BxB/KX-TGA20EXB	Middle Near East, Africa and Asia	KM41304697CE	---	---
KX-TG6841BxB/KX-TGA680BxB	Middle Near East and Asia	KM41307722CE	---	---
KX-TG9471B/KX-TG9472B/KX-TGA939T	U.S.A.	KM41108472CE	---	---
KX-TG9321T/KX-TG9322T/KX-TGA939T	U.S.A.	KM41007188CE	---	---
KX-TG9381T/KX-TG9382T/KX-TGA939T	U.S.A.	KM40906969CE	---	---
KX-TG9391T/KX-TG9392T/KX-TGA939T	U.S.A.	KM40807646CE	---	---
KX-TGD210LCB/KX-TGD212LCB/KX-TGDA20LCB	Chile, Uruguay and Paraguay	KM41404825CE	---	---

## 2 REPLACEMENT PARTS LIST

### 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 <b>ORIGINAL AND NEW PARTS COMPARISON LISTS</b> .	
1. Improve performance	<b>Remarks:</b> *m: Discontinued (To be replaced with a new part) *j: To meet the standards.
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 <b>ORIGINAL AND NEW PARTS COMPARISON LISTS</b> .		
V	Original  Early (before change) New  Late (after change)	Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.
W	Original  Early (before change) New  Late (after change)	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  Early (before change) New  Late (after change)	New parts only may be used in early or late production sets. Stock new parts.
Y	Original  Early (before change) New  Late (after change)	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:**

Alphabets in the "Remarks" column in the following lists correspond to the alphabets in the "Remarks" in REFERENCE CHART.

## 2.2. ORIGINAL AND NEW PARTS COMPARISON LISTS




For KX-TG6512B, KX-TG6513B, KX-TG9471B

Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Remarks	Notes	Time of Change (Suffix)
	Original (Old)	New					
<b>Accessories and Packing Materials</b>							
A1, A101	PQLV219Y	PQLV219-0Z	AC ADAPTOR	1	*m	4 V	---


Old	New
PQLV219Y	PQLV219-0Z
<p><b>Panasonic</b></p> <p><b>PQLV219</b> AC ADAPTOR</p> <p>I.T.E. Power Supply INPUT : 100-120 V ~ 60 Hz 100 mA OUTPUT : 6.5 V = 500 mA</p>  <p>EFFICIENCY LEVEL : (V)</p> <p>ATTENTION POUR UTILISATION À L'INTERIEUR SEULEMENT Made in China</p>	<p><b>Panasonic</b></p> <p><b>PQLV219</b> AC ADAPTOR (NT)</p> <p>I.T.E. Power Supply INPUT : 100-120 V ~ 60 Hz 100 mA OUTPUT : 6.5 V = 500 mA</p>  <p>EFFICIENCY LEVEL : (VI)</p> <p>ATTENTION : POUR UTILISATION À L'INTERIEUR SEULEMENT Panasonic System Networks Co.,Ltd. Made in China (P)</p>

For KX-TG6551BXT, KX-TG6561BXT


Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Remarks	Notes	Time of Change (Suffix)
	Original (Old)	New					
<b>Accessories</b>							
A1	PQLV219BXZN	PQLV219CE0Z	AC ADAPTOR	1	*m	4 V	---
	PQLV219BXY						



Old	New
PQLV219BXZN	PQLV219CE0Z
<p><b>Panasonic</b></p> <p><b>PQLV219BX</b> (EN) AC ADAPTOR</p> <p>INPUT : 100-240 V ~ 50/60 Hz 100 mA OUTPUT : 6.5 V = 500 mA</p>  <p>EFFICIENCY LEVEL : (V)</p> <p>CAUTION INDOOR USE ONLY Made in China</p>	<p><b>Panasonic</b></p> <p><b>PQLV219CE</b> (NT) AC ADAPTOR</p> <p>INPUT : 100-240 V ~ 50/60 Hz 100 mA OUTPUT : 6.5 V = 500 mA EFFICIENCY LEVEL : (VI)</p>  <p>CAUTION FOR INDOOR USE ONLY Panasonic System Networks Co.,Ltd. Made in China</p>
PQLV219BXY	
<p><b>Panasonic</b></p> <p><b>PQLV219BX</b> AC ADAPTOR</p> <p>INPUT : 100-240 V ~ 50/60 Hz 100 mA OUTPUT : 6.5 V = 500 mA</p>  <p>EFFICIENCY LEVEL : (V)</p> <p>CAUTION INDOOR USE ONLY Made in China</p>	

For KX-TG6521GB, KX-TG6522GB, KX-TG6551JTT, KX-TG6561JTT, KX-TG6571JTM, KX-TGA651EXB/EXF/EXM/EXT


Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Remarks	Notes	Time of Change (Suffix)
	Original (Old)	New					
<b>Accessories</b>							
A1	PQLV219CE0V	<b>PQLV219CE0Z</b>	AC ADAPTOR 	1	*j	4 W	---

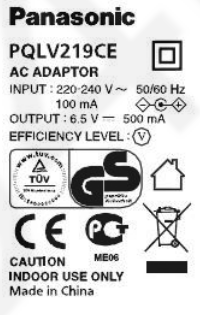

For KX-TG6751SPB, KX-TG6761GB

Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Remarks	Notes	Time of Change (Suffix)
	Original (Old)	New					
<b>Accessories</b>							
A2	PQLV219CE0V	<b>PQLV219CE0Z</b>	AC ADAPTOR (for KX-TGA405EXB) 	1	*j	4 W	---

Old	New
PQLV219CE0V	PQLV219CE0Z
	

For KX-TG6551SPM, KX-TG6571FRM/FRT, KX-TG6571SLM, KX-TG6571SPM

Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Remarks	Notes	Time of Change (Suffix)
	Original (Old)	New					
<b>Accessories</b>							
A1	PQLV219CEW	<b>PQLV219CE0Z</b>	AC ADAPTOR 	1	*j	4 W	---

















Old	New
PQLV219CEW	PQLV219CE0Z
	

For KX-TG6811BXB, KX-TG6812BXB, KX-TG6821BXB, KX-TG6822BXB, KX-TG6881BXB, KX-TG6841BXB

Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Remarks	Notes	Time of Change (Suffix)
	Original (Old)	New					
<b>Accessories</b>							
A1	PNLV226BX0Z	<b>PNLV226CE0Y</b>	AC ADAPTOR (for Base Unit) ⚠	1	*m	4 V	---

















For KX-TGD210LCB, KX-TGD212LCB

Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Remarks	Notes	Time of Change (Suffix)
	Original (Old)	New					
<b>Accessories</b>							
A1, A101	PNLV226BX0Z	<b>PNLV226CE0Y</b>	AC ADAPTOR ⚠	1	*m	4 V	---

Old	New
PNLV226BX0Z	PNLV226CE0Y
<p><b>Panasonic</b></p> <p><b>PNLV226BX</b> </p> <p><b>AC ADAPTOR</b></p> <p>INPUT : 100-240 V ~ 50/60 Hz 100 mA </p> <p>OUTPUT : 5.5 V = 500 mA</p> <p>EFFICIENCY LEVEL : </p> <p> SAFETY MARK 1 0 2 5 9 1 - 1 1 </p> <p><b>CAUTION</b> INDOOR USE ONLY </p> <p>Made in China</p>	<p><b>Panasonic</b> </p> <p><b>PNLV226CE</b> </p> <p><b>AC ADAPTOR</b> </p> <p>INPUT : 220-240 V ~ 50/60 Hz 100 mA </p> <p>OUTPUT : 5.5 V = 500 mA</p> <p>EFFICIENCY LEVEL : </p> <p></p> <p>  </p> <p><b>CAUTION</b>  INDOOR USE ONLY Made in China</p>

For KX-TGA939T

Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Remarks	Notes	Time of Change (Suffix)
	Original (Old)	New					
<b>Accessories</b>							
A1, A201	PQLV219Z	<b>PQLV219-0Z</b>	AC ADAPTOR ⚠	1	*m	4 V	---

Old	New
PQLV219Z	PQLV219-0Z
<p><b>Panasonic</b></p> <p><b>PQLV219</b></p> <p><b>AC ADAPTOR</b></p> <p>I.T.E. Power Supply</p> <p>INPUT : 100-120 V ~ 60 Hz 100 mA OUTPUT : 6.5 V = 500 mA</p> <p>   </p> <p><b>LISTED</b>  E199967 244192 Level 3</p> <p>EFFICIENCY LEVEL : </p> <p>ATTENTION :  POUR UTILISATION À L'INTÉRIEUR SEULEMENT Panasonic System Networks Co., Ltd. Made in China</p>	<p><b>Panasonic</b> </p> <p><b>PQLV219</b></p> <p><b>AC ADAPTOR</b></p> <p>I.T.E. Power Supply</p> <p>INPUT : 100-120 V ~ 60 Hz 100 mA OUTPUT : 6.5 V = 500 mA</p> <p>    </p> <p><b>LISTED</b>  E132068 US 9T54</p> <p>EFFICIENCY LEVEL : </p> <p>ATTENTION :  POUR UTILISATION À L'INTÉRIEUR SEULEMENT Panasonic System Networks Co., Ltd. Made in China (P)</p>

**Note:**

The appearance of AC adaptor is different in the old one and the new one.