# TK-3130/3131

## PARTS LIST

✻ New Parts. ⚠ indicates safety critical components.
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

**L** : Scandinavia **K**: USA **P** : Canada
**Y**: PX (Far East, Hawaii) **T**: England **E** : Europe
**Y**: AAFES (Europe) **X**: Australia **M**: Other Areas

**TK-3130/3131**
**TX-RX UNIT (X57-6460-XX)**

| Ref. No. | Address | New parts | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| **TK-3130/3131** | | | | | |
| 1 | 3A | ✻ | A02-3661-13 | CABINET ASSY (REAR) | |
| 2 | 1A | ✻ | A02-3663-03 | CABINET ASSY (FRONT) | 30K |
| 2 | 1A | ✻ | A02-3705-03 | CABINET ASSY (FRONT) | 31K |
| 2 | 1A | ✻ | A02-3706-03 | CABINET ASSY (FRONT) | A |
| 5 | 3B | ✻ | B09-0627-03 | CAP (P-JACK) | |
| 6 | 1B | ✻ | B11-1285-03 | ILLUMINATION GUIDE (LCD) | |
| 7 | 1B | ✻ | B38-0866-05 | LCD | |
| 8 | 3A | ✻ | B41-1841-04 | CAUTION LABEL (FCC SAR) | 30K,31K |
| 9 | 1D | ✻ | B46-0773-10 | WARRANTY CARD | 30K |
| 9 | 1D | ✻ | B46-0774-00 | WARRANTY CARD | 31K |
| 10 | 1D | ✻ | B62-1486-00 | INSTRUCTION MANUAL | 30K |
| 10 | 1D | ✻ | B62-1590-00 | INSTRUCTION MANUAL | 31K |
| 11 | 1F | ✻ | B62-1591-00 | INSTRUCTION MANUAL | A |
| 12 | 3A | ✻ | B72-1970-04 | MODEL NAME PLATE | 30K |
| 12 | 3A | ✻ | B72-2062-04 | MODEL NAME PLATE | 31K |
| 12 | 3A | ✻ | B72-2063-04 | MODEL NAME PLATE | A |
| 13 | 1B | ✻ | E29-1194-04 | INTER CONNECTOR (LCD) | |
| 14 | 1A | | E37-0810-15 | PARALLEL CORD (SP) | |
| 16 | 3A | ✻ | F07-1855-02 | COVER (BATT) | |
| 17 | 2A | ✻ | G11-4192-04 | SHEET | |
| 18 | 3B | ✻ | G11-4193-04 | SHEET | |
| 19 | 2A | | G13-1751-04 | CUSHION | |
| 20 | 2A | ✻ | G13-1934-04 | CUSHION | |
| 21 | 3B | | G53-1521-04 | PACKING (P-JACK) | |
| 22 | 2D,2F | ✻ | H12-3110-05 | PACKING FIXTURE | |
| 23 | 2C | ✻ | H12-3111-03 | PACKING FIXTURE | 30K,31K |
| 24 | 1D,1E | ✻ | H25-2345-04 | PROTECTION BAG | |
| 25 | 3C | ✻ | H52-1817-02 | ITEM CARTON CASE | 30K |
| 25 | 3C | ✻ | H52-1897-02 | ITEM CARTON CASE | 31K |
| 26 | 3F | ✻ | H52-1898-02 | ITEM CARTON CASE | A |
| 27 | 1B | ✻ | J21-8427-14 | HARDWARE FIXTURE (LCD) | |
| 28 | 1D,1F | ✻ | J29-0691-04 | HOOK ASSY | |
| 29 | 2A | | J30-1212-04 | SPACER (MIC) | |
| 31 | 1A | ✻ | K29-9136-12 | KEY TOP | |
| 32 | 2A | ✻ | K29-9137-13 | BUTTON KNOB (PTT) | |
| 33 | 3B | ✻ | K29-9138-03 | KNOB (VOL) | |
| A | 3B | | N14-0583-04 | CIRCULAR NUT (VOL) | |
| B | 2A | | N39-2030-46 | PAN HEAD MACHINE SCREW | |
| C | 3A | | N80-2006-45 | PAN HEAD TAPTITE SCREW | |
| D | 3B | | N80-2012-45 | PAN HEAD TAPTITE SCREW | |
| E | 2B | | N82-2005-46 | BINDING HEAD TAPTITE SCREW | |
| F | 2A | | N82-2008-45 | BINDING HEAD TAPTITE SCREW | |
| 35 | 1A | | T07-0362-05 | SPEAKER | |
| 36 | 2A | ✻ | T42-0335-05 | MOTOR | |
| 37 | 2B | ✻ | T90-1004-05 | ANTENNA | |
| 39 | 1C | ✻ | W08-0937-05 | AC ADAPTER (120V AC) | 30K,31K |
| 40 | 1C | ✻ | W08-0938-15 | CHARGER | 30K,31K |

| Ref. No. | Address | New parts | Parts No. | Description | | | Destination |
|---|---|---|---|---|---|---|---|
| **TX-RX UNIT (X57-6460-XX) -10 : TK-3130/3131 K -31 : TK-3131 A** | | | | | | | |
| D200 | | | B30-2143-05 | LED (YG) | | | |
| D201 | | ✻ | B30-2242-05 | LED (RG) | | | |
| C1 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C2 | | | CC73HCH1H470J | CHIP C | 47PF | J | |
| C3,4 | | | CC73HCH1H100D | CHIP C | 10PF | D | |
| C5 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C6 | | | C92-0695-05 | CHIP-TAN | 10UF | 10WV | |
| C7 | | | CC73HCH1H470J | CHIP C | 47PF | J | |
| C13 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C17 | | | C92-0001-05 | CHIP C | 0.1UF | 35WV | |
| C18 | | | C92-0501-05 | CHIP-TAN | 1.5UF | 10WV | |
| C19 | | | C92-0502-05 | CHIP-TAN | 0.33UF | 35WV | |
| C22 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C24 | | | CC73HCH1H090D | CHIP C | 9.0PF | D | |
| C25 | | | CC73HCH1H100D | CHIP C | 10PF | D | |
| C27 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C29,30 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C31 | | | C92-0712-05 | CHIP-TAN | 22UF | 6.3WV | |
| C32,33 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C35 | | | CC73HCH1H120J | CHIP C | 12PF | J | |
| C36 | | | CC73HCH1H070B | CHIP C | 7.0PF | B | |
| C38 | | | CC73HCH1H0R5B | CHIP C | 0.5PF | B | |
| C41 | | | CC73HCH1H100D | CHIP C | 10PF | D | |
| C42 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C44 | | | CC73HCH1H120J | CHIP C | 12PF | J | |
| C45 | | | CC73HCH1H0R5B | CHIP C | 0.5PF | B | |
| C46 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C47 | | | CC73HCH1H080D | CHIP C | 8.0PF | D | |
| C48 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C50,51 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C52 | | | CK73HB1H182K | CHIP C | 1800PF | K | |
| C53 | | | CC73GCH1H030C | CHIP C | 3.0PF | C | |
| C54,55 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C56 | | | CC73HCH1H040C | CHIP C | 4.0PF | C | |
| C57 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C59-61 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C63 | | | CK73HB1A104K | CHIP C | 0.10UF | K | |
| C64,65 | | | CC73HCH1H150J | CHIP C | 15PF | J | |
| C67 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C69,70 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C71 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C73 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C76 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C77 | | | CK73HB1C103K | CHIP C | 0.010UF | K | |
| C78 | | | CK73HB1A104K | CHIP C | 0.10UF | K | |
| C79 | | | CK73FB1A105K | CHIP C | 1.0UF | K | |
| C80 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C87 | | | CC73GCH1H220J | CHIP C | 22PF | J | |
| C89 | | | CK73GB1H471K | CHIP C | 470PF | K | |
| C91 | | | CK73GB1H471K | CHIP C | 470PF | K | |
| C92 | | | CC73GCH1H080D | CHIP C | 8.0PF | D | |
| C93 | | | CC73GCH1H471J | CHIP C | 470PF | J | |
| C94 | | | CC73HCH1H010C | CHIP C | 1.0PF | C | |



**30K : TK-3130K**
**31K : TK-3131K**
**A : TK-3131A**

# PARTS LIST

TX-RX UNIT (X57-6460-XX)

| Ref. No. | Address | New parts | Parts No. | Description | | | Destination |
|---|---|---|---|---|---|---|---|
| C95 | | | CC73GCH1H070B | CHIP C | 7.0PF | B | |
| C97 | | | CC73GCH1H150J | CHIP C | 15PF | J | |
| C99 | | | CC73GCH1H120J | CHIP C | 12PF | J | |
| C100 | | | CC73GCH1H020B | CHIP C | 2.0PF | B | |
| C101 | | | CC73GCH1H060B | CHIP C | 6.0PF | B | |
| C103 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C106 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C118 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C119 | | | CC73HCH1H070D | CHIP C | 7.0PF | D | |
| C120 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C122,123 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C128,129 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C130 | | | CK73HB1C103K | CHIP C | 0.010UF | K | |
| C132 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C133 | | | CK73HB1C103K | CHIP C | 0.010UF | K | |
| C134 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C135 | | | CK73HB1C103K | CHIP C | 0.010UF | K | |
| C136 | | | CC73HCH1H030C | CHIP C | 3.0PF | C | |
| C137 | | | CC73HCH1H120J | CHIP C | 12PF | J | |
| C138 | | | CC73HCH1H030C | CHIP C | 3.0PF | C | |
| C140 | | | CC73HCH1H040C | CHIP C | 4.0PF | C | |
| C143 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C144 | | | CK73HB1C103K | CHIP C | 0.010UF | K | |
| C145 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C146 | | | CK73HB1C103K | CHIP C | 0.010UF | K | |
| C147 | | | CK73HB1H182K | CHIP C | 1800PF | K | |
| C148 | | | CC73HCH1H270J | CHIP C | 27PF | J | |
| C150 | | | CK73HB1A104K | CHIP C | 0.10UF | K | |
| C151 | | | CK73HB1H182K | CHIP C | 1800PF | K | |
| C153-155 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C156 | | | CK73HB1H182K | CHIP C | 1800PF | K | |
| C157 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C158 | | | CK73HB1A333K | CHIP C | 0.033UF | K | |
| C159 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C160 | | | CK73HB1A473K | CHIP C | 0.047UF | K | |
| C161 | | | CK73FB1E224K | CHIP C | 0.22UF | K | |
| C162 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C163 | | | C92-0695-05 | CHIP-TAN | 10UF | 10WV | |
| C164 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C165 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C166 | | | CC73HCH1H470J | CHIP C | 47PF | J | |
| C169 | | | CK73HB1H331K | CHIP C | 330PF | K | |
| C170 | | | CK73GB1H183K | CHIP C | 0.018UF | K | |
| C171 | | | CC73HCH1H150J | CHIP C | 15PF | J | |
| C172 | | | CK73HB1C103K | CHIP C | 0.010UF | K | |
| C173 | | | CC73HCH1H680J | CHIP C | 68PF | J | |
| C174 | | | CC73HCH1H330J | CHIP C | 33PF | J | |
| C175 | | | CC73HCH1H121J | CHIP C | 120PF | J | |
| C176 | | | CC73HCH1H330J | CHIP C | 33PF | J | |
| C177 | | | CC73HCH1H680J | CHIP C | 68PF | J | |
| C178 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C179 | | | CK73FB1A105K | CHIP C | 1.0UF | K | |
| C180 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C181 | | | C92-0695-05 | CHIP-TAN | 10UF | 10WV | |
| C182 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C183 | | | C92-0695-05 | CHIP-TAN | 10UF | 10WV | |
| C185 | | | CC73HCH1H100B | CHIP C | 10PF | B | |
| C186 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C187 | | | CC73HCH1H220J | CHIP C | 22PF | J | |
| C189 | | | CK73GB1H471K | CHIP C | 470PF | K | |

| Ref. No. | Address | New parts | Parts No. | Description | | | Destination |
|---|---|---|---|---|---|---|---|
| C190 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C191 | | | CK73HB1C103K | CHIP C | 0.010UF | K | |
| C192 | | | CC73HCH1H180J | CHIP C | 18PF | J | |
| C193 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C196 | | | CK73HB1H471K | CHIP C | 470PF | K | |
| C200 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C201 | | | CK73HB1A104K | CHIP C | 0.10UF | K | |
| C202 | | | C92-0695-05 | CHIP-TAN | 10UF | 10WV | |
| C203 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C205 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C206,207 | | | CK73FB1A105K | CHIP C | 1.0UF | K | |
| C208,209 | | | CC73HCH1H100D | CHIP C | 10PF | D | |
| C210 | | | CK73FB1C105K | CHIP C | 1.0UF | K | |
| C211 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C212 | | | CK73HB1C103K | CHIP C | 0.010UF | K | |
| C213 | | | CK73FB1E104K | CHIP C | 0.10UF | K | |
| C214 | | | CK73HB1C103K | CHIP C | 0.010UF | K | |
| C215 | | | CK73HB1A473K | CHIP C | 0.047UF | K | |
| C219 | | | C92-0695-05 | CHIP-TAN | 10UF | 10WV | |
| C220 | | | CK73HB1A473K | CHIP C | 0.047UF | K | |
| C222 | | | C92-0587-05 | CHIP-TAN | 2.2UF | 4WV | |
| C223 | | | CK73HB1A104K | CHIP C | 0.10UF | K | |
| C224 | | | C92-0519-05 | CHIP-TAN | 1.0UF | 25WV | |
| C225 | | | CK73HB1E472K | CHIP C | 4700PF | K | |
| C227 | | | C92-0519-05 | CHIP-TAN | 1.0UF | 25WV | |
| C228 | | | CK73HB1A104K | CHIP C | 0.10UF | K | |
| C229 | | | C92-0695-05 | CHIP-TAN | 10UF | 10WV | |
| C231 | | | CK73HB1A104K | CHIP C | 0.10UF | K | |
| C232 | | | CK73HB1A473K | CHIP C | 0.047UF | K | |
| C233 | | | CK73HB1C223K | CHIP C | 0.022UF | K | |
| C234 | | | C92-0519-05 | CHIP-TAN | 1.0UF | 25WV | |
| C235 | | | CK73HB1H222K | CHIP C | 2200PF | K | |
| C236 | | | CK73HB1C223K | CHIP C | 0.022UF | K | |
| C237 | | | CK73HB1H561K | CHIP C | 560PF | K | |
| C238 | | | CK73HB1A104K | CHIP C | 0.10UF | K | |
| C240 | | | CK73HB1A104K | CHIP C | 0.10UF | K | |
| C241 | | | CK73HB1H392K | CHIP C | 3900PF | K | |
| C242 | | | CK73HB1A104K | CHIP C | 0.10UF | K | |
| C243 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C244 | | | CK73HB1H392K | CHIP C | 3900PF | K | |
| C245 | | | CK73HB1H332K | CHIP C | 3300PF | K | |
| C246 | | | C92-0519-05 | CHIP-TAN | 1.0UF | 25WV | |
| C247 | | | CK73HB1H222K | CHIP C | 2200PF | K | |
| C248 | | | CK73HB1C103K | CHIP C | 0.010UF | K | |
| C249 | | | CK73HB1C223K | CHIP C | 0.022UF | K | |
| C250 | | | CK73HB1A104K | CHIP C | 0.10UF | K | |
| C253 | | | CK73GB1C104K | CHIP C | 0.10UF | K | |
| C254,255 | | | C92-0695-05 | CHIP-TAN | 10UF | 10WV | |
| C256 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C257 | | | CK73HB1A104K | CHIP C | 0.10UF | K | |
| C258 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C259 | | | C92-0695-05 | CHIP-TAN | 10UF | 10WV | |
| C260 | | | CK73GB1C104K | CHIP C | 0.10UF | K | |
| C262 | | | C92-0665-05 | TANTAL | 100UF | 6.3WV | |
| C263 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C264 | | | C92-0695-05 | CHIP-TAN | 10UF | 10WV | |
| C265 | | | CK73HB1H102K | CHIP C | 1000PF | K | |
| C266 | | | CK73HB1A104K | CHIP C | 0.10UF | K | |
| C268 | | | CK73HB1A104K | CHIP C | 0.10UF | K | |
| C269 | | | C92-0695-05 | CHIP-TAN | 10UF | 10WV | |

**30K : TK-3130K**
**31K : TK-3131K**
**A : TK-3131A**

# PARTS LIST

**TX-RX UNIT (X57-6460-XX)**

| Ref. No. | Address | New parts | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| C270 | | | CK73HB1C123K | CHIP C 0.012UF K | |
| C271 | | | CK73FB1A105K | CHIP C 1.0UF K | |
| C272,273 | | | CK73HB1H102K | CHIP C 1000PF K | |
| C274 | | | CK73HB1A104K | CHIP C 0.10UF K | |
| C275 | | | CC73HCH1H470J | CHIP C 47PF J | |
| C278 | | | CK73FB1A105K | CHIP C 1.0UF K | |
| C279 | | | CK73HB1A104K | CHIP C 0.10UF K | |
| C280 | | | CK73HB1A473K | CHIP C 0.047UF K | |
| C282 | | | CK73HB1C103K | CHIP C 0.010UF K | |
| C285 | | | CK73HB1H471K | CHIP C 470PF K | |
| C287,288 | | | CK73FB1C105K | CHIP C 1.0UF K | |
| C289 | | | CC73HCH1H030C | CHIP C 3.0PF C | |
| C290,291 | | | CK73HB1H102K | CHIP C 1000PF K | |
| C292,293 | | | CC73HCH1H101J | CHIP C 100PF J | |
| TC1 | | | C05-0383-05 | CERAMIC TRIMMER CAP (6P) | |
| CN1 | | * | E40-6213-05 | PIN ASSY | |
| CN202 | | * | E40-6214-05 | PIN ASSY SOCKET | |
| J200 | 2B | | E11-0457-05 | PHONE JACK (2.5D/3.5D) | |
| F200 | | | F53-0217-05 | FUSE (3A) | |
| CF1 | | | L72-0958-05 | CERAMIC FILTER (450KHZ) | |
| L1 | | * | L40-1001-86 | SMALL FIXED INDUCTOR (10U) | |
| L2 | | | L92-0140-05 | FERRITE CHIP | |
| L8 | | | L40-1085-54 | SMALL FIXED INDUCTOR (100NH) | |
| L9,10 | | * | L40-1001-86 | SMALL FIXED INDUCTOR (10U) | |
| L11 | | | L92-0140-05 | FERRITE CHIP | |
| L12 | | | L40-1875-92 | SMALL FIXED INDUCTOR (18NH) | |
| L14-16 | | | L40-2275-92 | SMALL FIXED INDUCTOR (22NH) | |
| L19 | | | L40-1075-92 | SMALL FIXED INDUCTOR (10NH) | |
| L20 | | | L92-0149-05 | FERRITE CHIP | |
| L22 | | | L92-0149-05 | FERRITE CHIP | |
| L23 | | | L34-4568-05 | AIR-CORE COIL | |
| L25-27 | | | L34-4563-05 | AIR-CORE COIL | |
| L28 | | | L34-4572-05 | AIR-CORE COIL | |
| L30 | | | L40-4775-92 | SMALL FIXED INDUCTOR (47NH) | |
| L32 | | | L40-2775-92 | SMALL FIXED INDUCTOR (27NH) | |
| L34 | | | L40-3385-85 | SMALL FIXED INDUCTOR (0.33U) | |
| L35 | | | L40-4785-85 | SMALL FIXED INDUCTOR (0.47U) | |
| L36 | | | L34-4554-05 | COIL | |
| L38 | | | L40-5681-86 | SMALL FIXED INDUCTOR (0.56U) | |
| L39 | | | L40-4781-86 | SMALL FIXED INDUCTOR (0.47U) | |
| L40,41 | | | L40-2285-92 | SMALL FIXED INDUCTOR (220NH) | |
| L42 | | * | L79-1807-05 | FILTER (465.0MHZ) | |
| L43 | | | L40-2275-54 | SMALL FIXED INDUCTOR (22NH) | |
| L44 | | * | L40-1001-86 | SMALL FIXED INDUCTOR (10U) | |
| L45 | | * | L40-3967-98 | SMALL FIXED INDUCTOR (3.9NH) | |
| L48 | | | L40-1091-37 | SMALL FIXED INDUCTOR (1.000UH) | |
| L49 | | | L40-4775-92 | SMALL FIXED INDUCTOR (47NH) | |
| L50 | | | L40-5663-92 | SMALL FIXED INDUCTOR (5.6NH) | |
| L51 | | | L40-1875-92 | SMALL FIXED INDUCTOR (18NH) | |
| L55 | | | L40-6865-92 | SMALL FIXED INDUCTOR (6.8NH) | |
| L56 | | | L40-1085-92 | SMALL FIXED INDUCTOR (100NH) | |
| L57 | | | L92-0149-05 | FERRITE CHIP | |
| L58 | | * | L79-1807-05 | FILTER (465.0MHZ) | |
| L59 | | | L40-2285-54 | SMALL FIXED INDUCTOR (220NH) | |
| L201 | | | L92-0140-05 | FERRITE CHIP | |
| L202,203 | | | L92-0138-05 | FERRITE CHIP | |
| X1 | | | L77-1792-05 | TCXO (12.8MHZ) | |
| X201 | | | L77-1633-05 | CRYSTAL RESONATOR (7.3728M) | |
| XF1 | | | L71-0586-05 | MCF (38.85MHZ) | |

| Ref. No. | Address | New parts | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| R1 | | | RK73HB1J472J | CHIP R 4.7K J 1/16W | |
| R2 | | | RK73HB1J273J | CHIP R 27K J 1/16W | |
| R3 | | | RK73HB1J100J | CHIP R 10 J 1/16W | |
| R4 | | | RK73HB1J563J | CHIP R 56K J 1/16W | |
| R5,6 | | | R92-1368-05 | CHIP R 0 OHM | |
| R7 | | | RK73HB1J101J | CHIP R 100 J 1/16W | |
| R8 | | | RK73HB1J472J | CHIP R 4.7K J 1/16W | |
| R9 | | | RK73HB1J101J | CHIP R 100 J 1/16W | |
| R10,11 | | | RK73HB1J103J | CHIP R 10K J 1/16W | |
| R12 | | | RK73HB1J470J | CHIP R 47 J 1/16W | |
| R13 | | | RK73HB1J563J | CHIP R 56K J 1/16W | |
| R14 | | | RK73HB1J102J | CHIP R 1.0K J 1/16W | |
| R15 | | | RK73HB1J472J | CHIP R 4.7K J 1/16W | |
| R16 | | | RK73HB1J100J | CHIP R 10 J 1/16W | |
| R17 | | | RK73HB1J473J | CHIP R 47K J 1/16W | |
| R18 | | | RK73HB1J104J | CHIP R 100K J 1/16W | |
| R20 | | | RK73HB1J103J | CHIP R 10K J 1/16W | |
| R21 | | | RK73HB1J473J | CHIP R 47K J 1/16W | |
| R22 | | | RK73HB1J562J | CHIP R 5.6K J 1/16W | |
| R23 | | | RK73HB1J682J | CHIP R 6.8K J 1/16W | |
| R24 | | | RK73GB1J221J | CHIP R 220 J 1/16W | |
| R25 | | | RK73HB1J683J | CHIP R 68K J 1/16W | |
| R26 | | | RK73HB1J101J | CHIP R 100 J 1/16W | |
| R27 | | | RK73HB1J183J | CHIP R 18K J 1/16W | |
| R28 | | | RK73HB1J153J | CHIP R 15K J 1/16W | |
| R29 | | | R92-1368-05 | CHIP R 0 OHM | |
| R30 | | | RK73HB1J821J | CHIP R 820 J 1/16W | |
| R31 | | | RK73HB1J221J | CHIP R 220 J 1/16W | |
| R32 | | | RK73HB1J332J | CHIP R 3.3K J 1/16W | |
| R33 | | | RK73HB1J103J | CHIP R 10K J 1/16W | |
| R34 | | | RK73HB1J332J | CHIP R 3.3K J 1/16W | |
| R35 | | | RK73HB1J470J | CHIP R 47 J 1/16W | |
| R36 | | | RK73HB1J102J | CHIP R 1.0K J 1/16W | |
| R39 | | | RK73HB1J392J | CHIP R 3.9K J 1/16W | |
| R40 | | | RK73HB1J470J | CHIP R 47 J 1/16W | |
| R42 | | | RK73HB1J821J | CHIP R 820 J 1/16W | |
| R45 | | | RK73HB1J5R6J | CHIP R 5.6 J 1/16W | |
| R51 | | | RK73HB1J104J | CHIP R 100K J 1/16W | |
| R56,57 | | | RK73HB1J221J | CHIP R 220 J 1/16W | |
| R58 | | | RK73HB1J391J | CHIP R 390 J 1/16W | |
| R59 | | | RK73HB1J100J | CHIP R 10 J 1/16W | |
| R60 | | | RK73HB1J101J | CHIP R 100 J 1/16W | |
| R61 | | | RK73HB1J222J | CHIP R 2.2K J 1/16W | |
| R62 | | | RK73HB1J123J | CHIP R 12K J 1/16W | |
| R63 | | | RK73HB1J102J | CHIP R 1.0K J 1/16W | |
| R64 | | | RK73HB1J123J | CHIP R 12K J 1/16W | |
| R82,83 | | | RK73HB1J564J | CHIP R 560K J 1/16W | |
| R84 | | | R92-1368-05 | CHIP R 0 OHM | |
| R86 | | | RK73HB1J184J | CHIP R 180K J 1/16W | |
| R87 | | | RK73HB1J104J | CHIP R 100K J 1/16W | |
| R89 | | | RK73HB1J101J | CHIP R 100 J 1/16W | |
| R91 | | | R92-1368-05 | CHIP R 0 OHM | |
| R92 | | | RK73HB1J100J | CHIP R 10 J 1/16W | |
| R94 | | | RK73HB1J472J | CHIP R 4.7K J 1/16W | |
| R95 | | | RK73HB1J102J | CHIP R 1.0K J 1/16W | |
| R96 | | | RK73HB1J181J | CHIP R 180 J 1/16W | |
| R98 | | | RK73HB1J470J | CHIP R 47 J 1/16W | |
| R99,100 | | | RK73HB1J561J | CHIP R 560 J 1/16W | |
| R103 | | | RK73HB1J334J | CHIP R 330K J 1/16W | |
| R104 | | | RK73HB1J101J | CHIP R 100 J 1/16W | |



**30K : TK-3130K**
**31K : TK-3131K**
**A : TK-3131A**

# PARTS LIST

**TX-RX UNIT (X57-6460-XX)**

| Ref. No. | Address | New parts | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| R105 | | | RK73HB1J153J | CHIP R 15K J 1/16W | |
| R107 | | | RK73HB1J332J | CHIP R 3.3K J 1/16W | |
| R108 | | | RK73HB1J472J | CHIP R 4.7K J 1/16W | |
| R109 | | | RK73HB1J681J | CHIP R 680 J 1/16W | |
| R110 | | | RK73HB1J122J | CHIP R 1.2K J 1/16W | |
| R111 | | | RK73HB1J334J | CHIP R 330K J 1/16W | |
| R113 | | | RK73HB1J274J | CHIP R 270K J 1/16W | |
| R114 | | | RK73HB1J472J | CHIP R 4.7K J 1/16W | |
| R115 | | | RK73HB1J151J | CHIP R 150 J 1/16W | |
| R117 | | | RK73HB1J100J | CHIP R 10 J 1/16W | |
| R118 | | | RK73HB1J222J | CHIP R 2.2K J 1/16W | |
| R119 | | | RK73HB1J334J | CHIP R 330K J 1/16W | |
| R120 | | | RK73HB1J101J | CHIP R 100 J 1/16W | |
| R126 | | | RK73HB1J470J | CHIP R 47 J 1/16W | |
| R129 | | | RK73HB1J393J | CHIP R 39K J 1/16W | |
| R135 | | | RK73HB1J104J | CHIP R 100K J 1/16W | |
| R138-140 | | | RK73HB1J101J | CHIP R 100 J 1/16W | |
| R141 | | | RK73HB1J154J | CHIP R 150K J 1/16W | |
| R142 | | | R92-1368-05 | CHIP R 0 OHM | |
| R143 | | | RK73GB1J220J | CHIP R 22 J 1/16W | |
| R144 | | | RK73GB1J221J | CHIP R 220 J 1/16W | |
| R146 | | | RK73HB1J473J | CHIP R 47K J 1/16W | |
| R147 | | | R92-1368-05 | CHIP R 0 OHM | |
| R148 | | | RK73GB1J683J | CHIP R 68K J 1/16W | |
| R149 | | | RK73GB1J473J | CHIP R 47K J 1/16W | |
| R200-202 | | | RK73GB1J181J | CHIP R 180 J 1/16W | |
| R203,204 | | | RK73HB1J473J | CHIP R 47K J 1/16W | |
| R206-208 | | | RK73HB1J102J | CHIP R 1.0K J 1/16W | |
| R211 | | | RK73HB1J473J | CHIP R 47K J 1/16W | |
| R212 | | | RK73HB1J104J | CHIP R 100K J 1/16W | |
| R213 | | | RK73HB1J473J | CHIP R 47K J 1/16W | |
| R214,215 | | | RK73HB1J104J | CHIP R 100K J 1/16W | |
| R216 | | | RK73HB1J473J | CHIP R 47K J 1/16W | |
| R217,218 | | | RK73HB1J104J | CHIP R 100K J 1/16W | |
| R219 | | | RK73HB1J154J | CHIP R 150K J 1/16W | |
| R220 | | | RK73HB1J474J | CHIP R 470K J 1/16W | |
| R221,222 | | | RK73HB1J102J | CHIP R 1.0K J 1/16W | |
| R229 | | | RK73HB1J153J | CHIP R 15K J 1/16W | |
| R230 | | | RK73HB1J124J | CHIP R 120K J 1/16W | |
| R231 | | | RK73HH1J105D | CHIP R 1.0M D 1/16W | |
| R232,233 | | | RK73HB1J103J | CHIP R 10K J 1/16W | |
| R234 | | | RK73HB1J124J | CHIP R 120K J 1/16W | |
| R235 | | | RK73HB1J104J | CHIP R 100K J 1/16W | |
| R237 | | | RK73HB1J223J | CHIP R 22K J 1/16W | |
| R238 | | | RK73HB1J562J | CHIP R 5.6K J 1/16W | |
| R239 | | | RK73HB1J103J | CHIP R 10K J 1/16W | |
| R240 | | | RK73HB1J473J | CHIP R 47K J 1/16W | |
| R241 | | | RK73HB1J474J | CHIP R 470K J 1/16W | |
| R242 | | | R92-1252-05 | CHIP R 0 OHM J 1/16W | 30K,31K |
| R243,244 | | | RK73HB1J473J | CHIP R 47K J 1/16W | |
| R245 | | | RK73HB1J103J | CHIP R 10K J 1/16W | |
| R246 | | | RK73HB1J472J | CHIP R 4.7K J 1/16W | |
| R247 | | | RK73HB1J473J | CHIP R 47K J 1/16W | |
| R248 | | | RK73HB1J563J | CHIP R 56K J 1/16W | |
| R251 | | | RK73HB1J274J | CHIP R 270K J 1/16W | |
| R252 | | | RK73HB1J223J | CHIP R 22K J 1/16W | |
| R253 | | | RK73HB1J103J | CHIP R 10K J 1/16W | |
| R254 | | | RK73HB1J334J | CHIP R 330K J 1/16W | |
| R255 | | | RK73HB1J333J | CHIP R 33K J 1/16W | |
| R256 | | | RK73HB1J394J | CHIP R 390K J 1/16W | |

| Ref. No. | Address | New parts | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| R257 | | | R92-1368-05 | CHIP R 0 OHM | |
| R259 | | | RK73HB1J104J | CHIP R 100K J 1/16W | |
| R260,261 | | | R92-1368-05 | CHIP R 0 OHM | |
| R262 | | | RK73HB1J153J | CHIP R 15K J 1/16W | |
| R263 | | | RK73HB1J392J | CHIP R 3.9K J 1/16W | |
| R264,265 | | | RK73HB1J104J | CHIP R 100K J 1/16W | |
| R266 | | | RK73HB1J562J | CHIP R 5.6K J 1/16W | |
| R267 | | | RK73HB1J563J | CHIP R 56K J 1/16W | |
| R268 | | | R92-1368-05 | CHIP R 0 OHM | |
| R269 | | | RK73HB1J224J | CHIP R 220K J 1/16W | |
| R270 | | | RK73HB1J473J | CHIP R 47K J 1/16W | |
| R271 | | | RK73HB1J393J | CHIP R 39K J 1/16W | |
| R272 | | | RK73HB1J473J | CHIP R 47K J 1/16W | |
| R273 | | | RK73HB1J124J | CHIP R 120K J 1/16W | |
| R274 | | | RK73HB1J103J | CHIP R 10K J 1/16W | |
| R277 | | | RK73HB1J824J | CHIP R 820K J 1/16W | |
| R280 | | | R92-1368-05 | CHIP R 0 OHM | |
| R281 | | | RK73HB1J104J | CHIP R 100K J 1/16W | |
| R282 | | | RK73HB1J473J | CHIP R 47K J 1/16W | |
| R283 | | | RK73HB1J333J | CHIP R 33K J 1/16W | |
| R284 | | | RK73HB1J274J | CHIP R 270K J 1/16W | |
| R285 | | | R92-1368-05 | CHIP R 0 OHM | |
| R287,288 | | | RK73HB1J104J | CHIP R 100K J 1/16W | |
| R289 | | | RK73HB1J472J | CHIP R 4.7K J 1/16W | |
| R290 | | | RK73GB1J821J | CHIP R 820 J 1/16W | |
| R291 | | | RK73HB1J104J | CHIP R 100K J 1/16W | |
| R292 | | | RK73HB1J103J | CHIP R 10K J 1/16W | |
| R293 | | | RK73HB1J182J | CHIP R 1.8K J 1/16W | |
| R294 | | | RK73HB1J471J | CHIP R 470 J 1/16W | |
| R295 | | | RK73HB1J331J | CHIP R 330 J 1/16W | |
| R296 | | | RK73HB1J103J | CHIP R 10K J 1/16W | |
| R298 | | | RK73HB1J101J | CHIP R 100 J 1/16W | |
| R299 | | | RK73HB1J151J | CHIP R 150 J 1/16W | |
| R300,301 | | | RK73HB1J102J | CHIP R 1.0K J 1/16W | |
| R308 | | | RK73HB1J101J | CHIP R 100 J 1/16W | |
| R309 | | | RK73HB1J331J | CHIP R 330 J 1/16W | |
| R311,312 | | | RK73GB1J680J | CHIP R 68 J 1/16W | |
| R316 | | | RK73HB1J564J | CHIP R 560K J 1/16W | |
| R317 | | | R92-1368-05 | CHIP R 0 OHM | |
| R322 | | | RK73HB1J102J | CHIP R 1.0K J 1/16W | |
| R324-329 | | | RK73HB1J102J | CHIP R 1.0K J 1/16W | |
| R330 | | | RK73HB1J104J | CHIP R 100K J 1/16W | |
| R334 | | | RK73HB1J562J | CHIP R 5.6K J 1/16W | |
| R336 | | | RK73HB1J102J | CHIP R 1.0K J 1/16W | |
| R337 | | | RK73HB1J124J | CHIP R 120K J 1/16W | |
| R338,339 | | | RK73HB1J101J | CHIP R 100 J 1/16W | |
| R340 | | | RK73GB1J152J | CHIP R 1.5K J 1/16W | |
| VR1 | | | R12-7491-05 | TRIMMING POT. (68K) | |
| VR2 | | | R12-7488-05 | TRIMMING POT. (22K) | |
| VR200 | | | R12-7494-05 | TRIMMING POT. (220K) | |
| VR201 | | | R12-7490-05 | TRIMMING POT. (47K) | |
| VR202 | 2B | * | R31-0640-05 | VARIABLE RESISTOR | |
| S200 | | | S70-0434-05 | TACT SWITCH | |
| MIC200 | 1A | * | T91-0631-05 | MIC ELEMENT | |
| D1 | | | MA2S111 | DIODE | |
| D3 | | | MA2S111 | DIODE | |
| D4 | | | MA360 | VARIABLE CAPACITANCE DIODE | |
| D8 | | | MA360 | VARIABLE CAPACITANCE DIODE | |

**30K : TK-3130K**
**31K : TK-3131K**
**A : TK-3131A**

# PARTS LIST

**TX-RX UNIT (X57-6460-XX)**

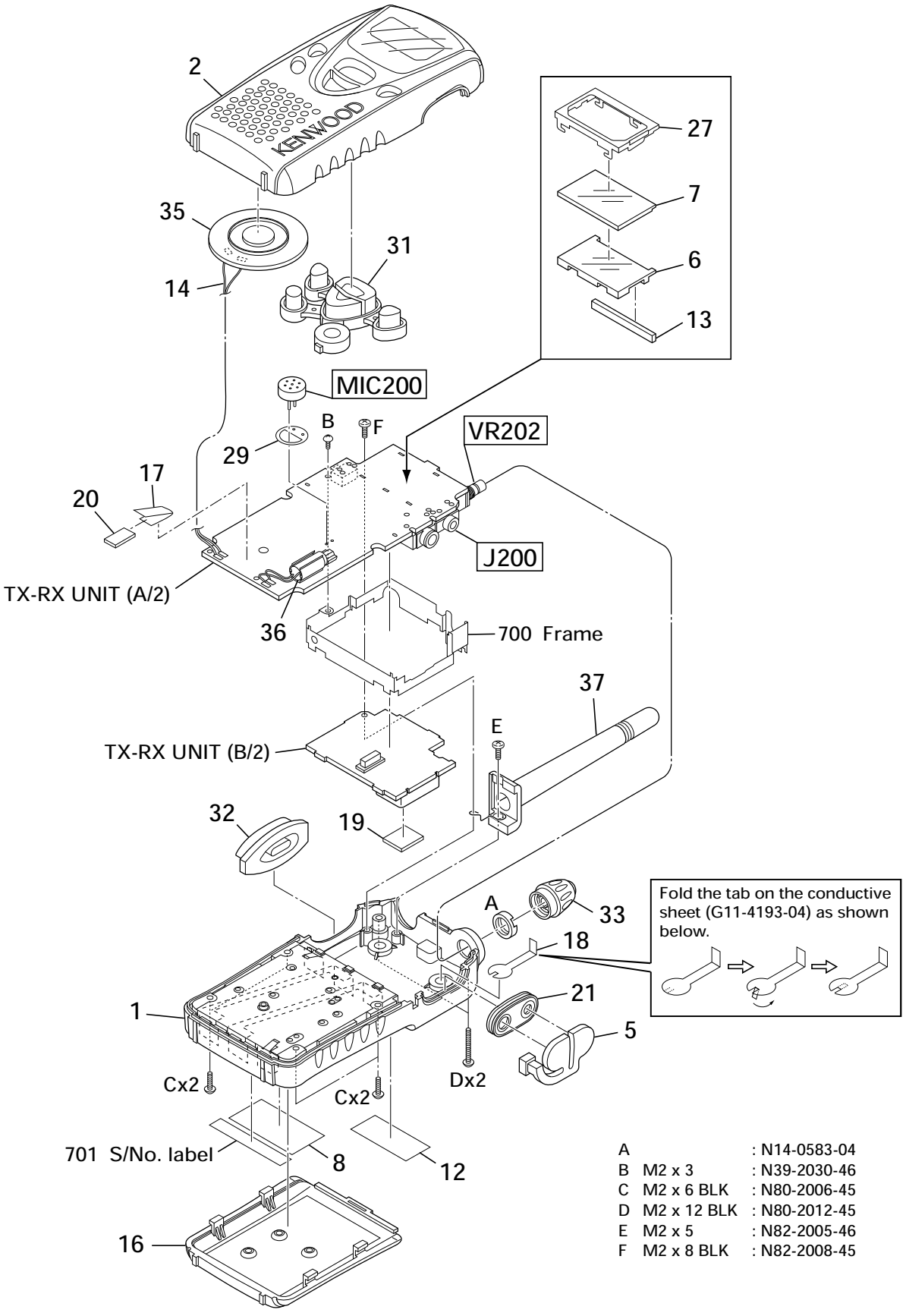
| Ref. No. | Address | New parts | Parts No. | Description | Destination |
|---|---|---|---|---|---|
| D9,10 | | | HSC277 | DIODE | |
| D12 | | | HVC131 | DIODE | |
| D13 | | | HSC277 | DIODE | |
| D16 | | | MA742 | DIODE | |
| D17 | | | HSC277 | DIODE | |
| D202 | | | MA742 | DIODE | |
| D204 | | | DAN222 | DIODE | |
| D205 | | | 1SS372 | DIODE | |
| D208 | | * | KDZ3.3V | ZENER DIODE | |
| D209 | | | 1SR154-400 | DIODE | |
| D210 | | | KDZ4.7EV | ZENER DIODE | |
| IC1 | | | TB31202FN | IC (PHASE LOCKED LOOP SYSTEM) | |
| IC2 | | | TA31136FN | IC (IF SYSTEM) | |
| IC200 | | * | XC61CN2902N | IC (VOLTAGE DETECT) | |
| IC201 | | * | XC61CN2702N | IC (RESET SWITCH) | |
| IC203 | | | 24LC08BT-ISN | IC (EEPROM) | |
| IC204 | | * | MN101C54AKA | IC (CPU) | |
| IC205 | | * | AK2368 | IC (BASE BAND) | |
| IC206 | | | NJM2100V | IC (ACTIVE FILTER) | |
| IC207 | | | NJM2100V | IC (MIC AMPLIFIER/LIMITER) | |
| IC208 | | * | LM4865M | IC (AUDIO POWER AMP) | |
| IC209 | | * | TK71530ASCL | IC (VOLTAGE REGULATOR) | |
| IC213 | | * | TK71530ASCL | IC (VOLTAGE REGULATOR) | |
| IC214 | | | TC7W74FU | IC (DIVIDER) | |
| Q1 | | | 2SC5108(Y) | TRANSISTOR | |
| Q2 | | | DTC114EE | DIGITAL TRANSISTOR | |
| Q3 | | | 2SC4617(S) | TRANSISTOR | |
| Q4 | | | 2SC5066(O) | TRANSISTOR | |
| Q5-7 | | | 2SC5108(Y) | TRANSISTOR | |
| Q8 | | | 2SC4226(R24) | TRANSISTOR | |
| Q9 | | * | 2SK3078 | FET | |
| Q10 | | * | NE5510279A | FET | |
| Q11 | | | DTC114TE | DIGITAL TRANSISTOR | |
| Q13 | | | 2SK1824 | FET | |
| Q14 | | | DTC114TE | DIGITAL TRANSISTOR | |
| Q18 | | | 3SK274 | FET | |
| Q19 | | | 3SK320 | FET | |
| Q20 | | | KTC4082 | TRANSISTOR | |
| Q21 | | | 2SC4738(GR) | TRANSISTOR | |
| Q22 | | | KTC4082 | TRANSISTOR | |
| Q200-202 | | | DTC114EE | DIGITAL TRANSISTOR | |
| Q210 | | | 2SC4919 | TRANSISTOR | |
| Q212 | | | DTC144EE | DIGITAL TRANSISTOR | |
| Q213 | | | 2SK1824 | FET | |
| Q214 | | | KTA1298(Y) | TRANSISTOR | |
| Q216 | | * | 3LN02C | FET | |
| Q217 | | | 2SK1824 | FET | |
| Q218-220 | | | DTA123JE | DIGITAL TRANSISTOR | |
| Q221 | | | 2SK1824 | FET | |
| TH1 | | | 157-503-65001 | THERMISTOR | |

| Ref. No. | Address | New parts | Parts No. | Description | Destination |
|---|---|---|---|---|---|



**30K : TK-3130K**
**31K : TK-3131K**
**A : TK-3131A**

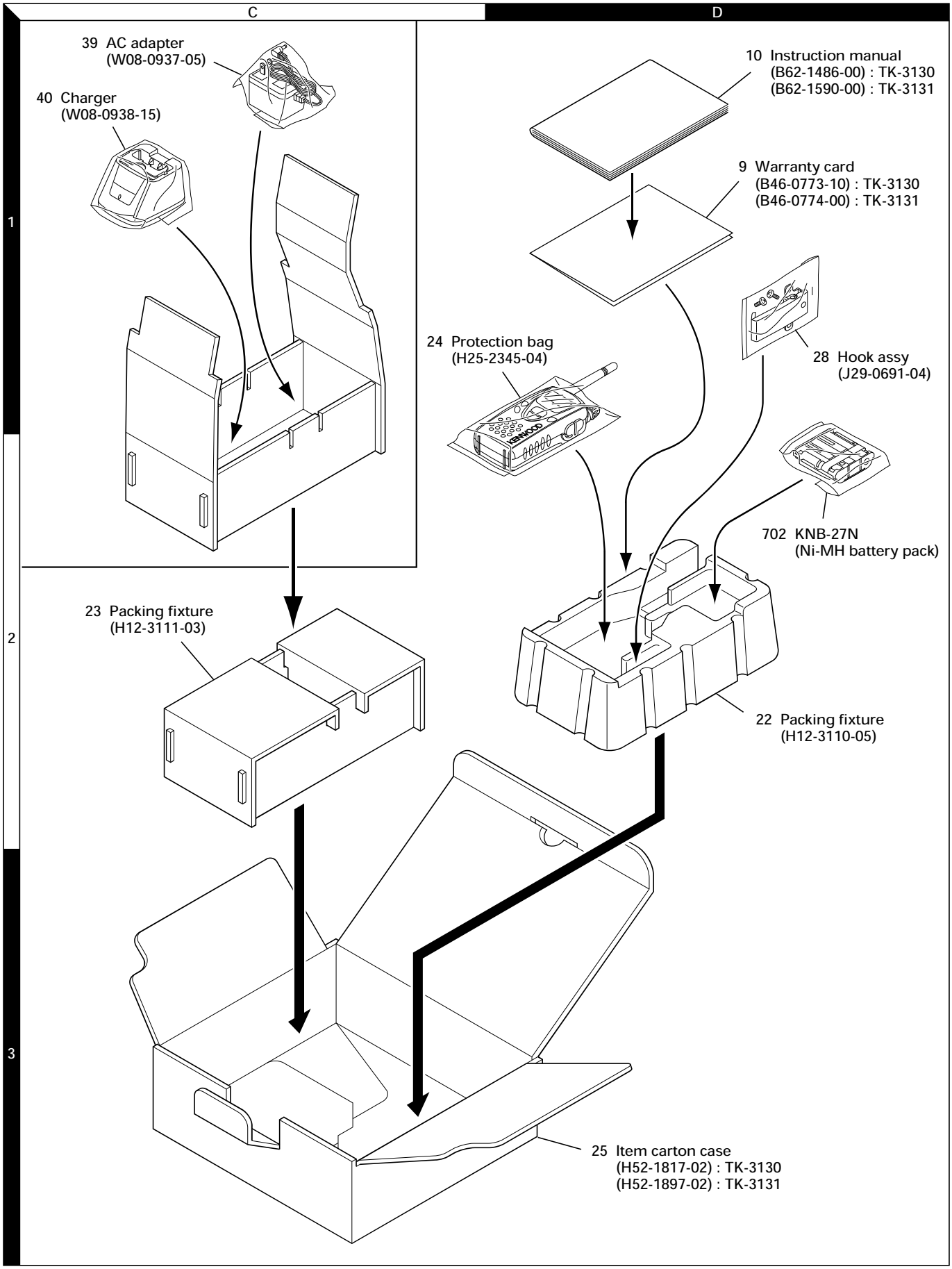
# EXPLODED VIEW



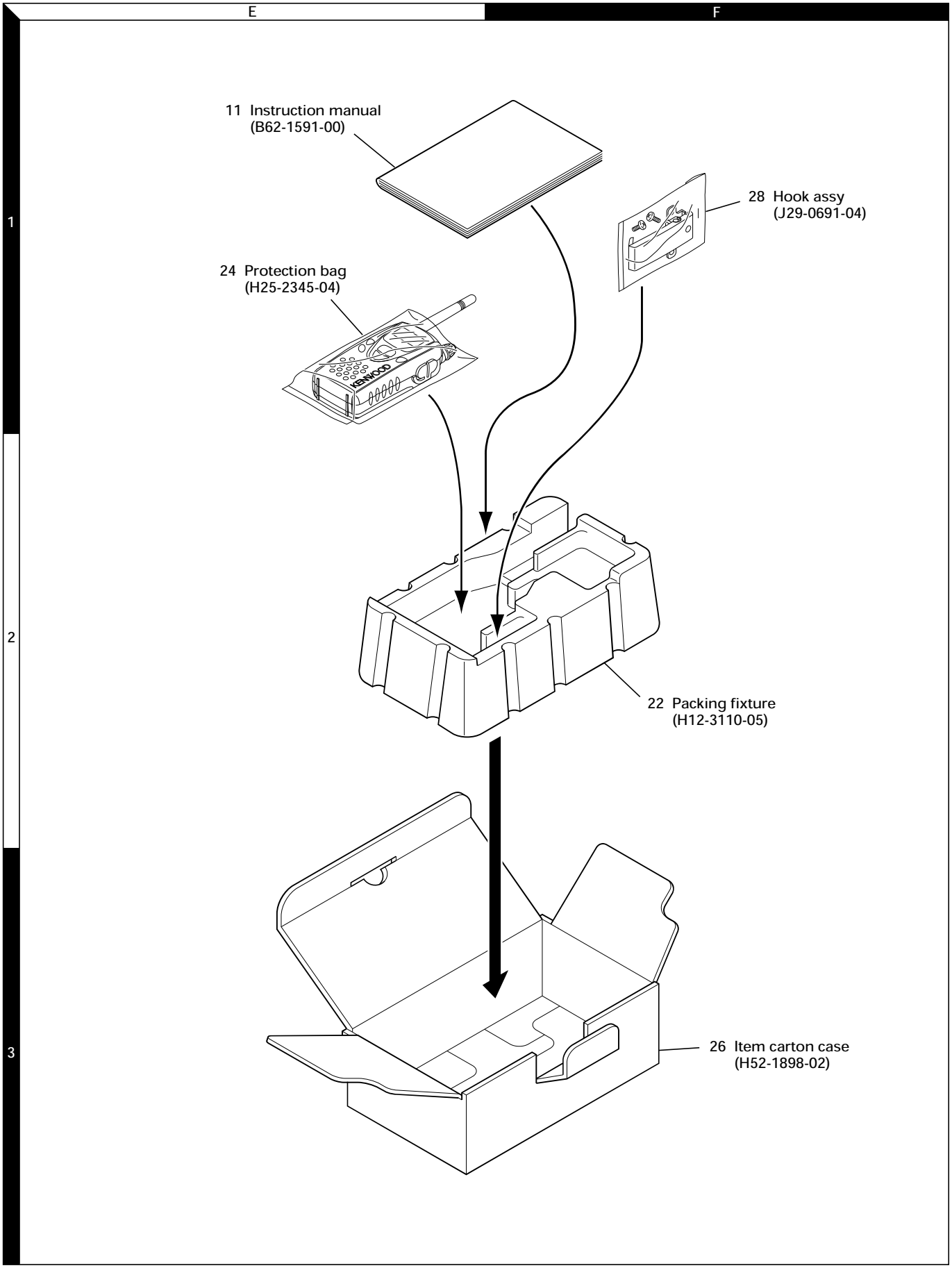

| | | |
|---|---|---|
| A | | : N14-0583-04 |
| B | M2 x 3 | : N39-2030-46 |
| C | M2 x 6 BLK | : N80-2006-45 |
| D | M2 x 12 BLK | : N80-2012-45 |
| E | M2 x 5 | : N82-2005-46 |
| F | M2 x 8 BLK | : N82-2008-45 |

**Parts with the exploded numbers larger than 700 are not supplied.**

# PACKING (TK-3130/3131 K)



# PACKING (TK-3131 A)

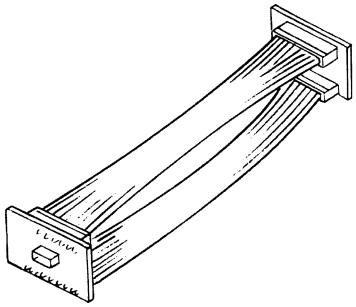


# ADJUSTMENT

## Jigs

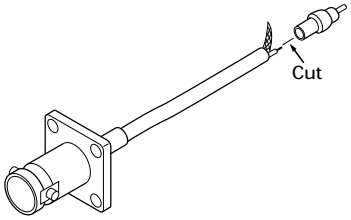
Use jigs for repair or adjustment.

■ **Extension cable (E30-3480-08)**



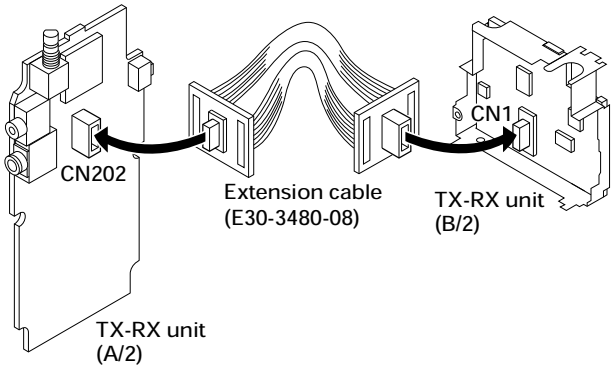
■ **ANT cable (E30-3418-05)**

Modify the cable as shown below.

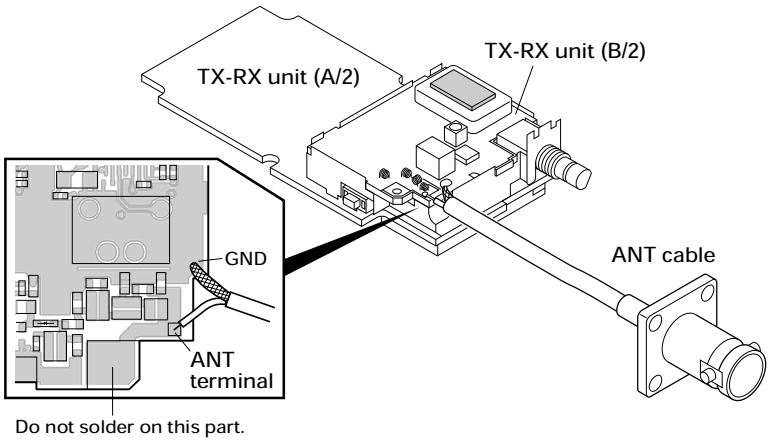



## Connecting Jigs

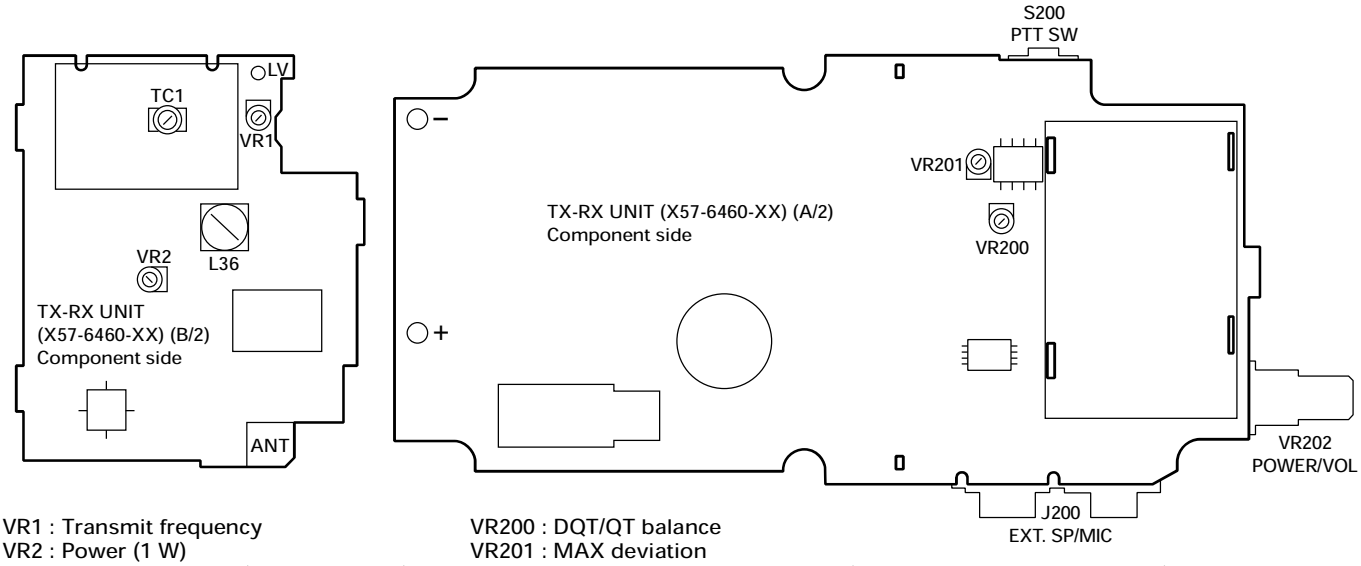
Connect the extension cable as shown in the illustration below.




Solder the ANT cable to the ANT terminal on the TX-RX unit (B/2).




## Adjustment Points




VR1 : Transmit frequency
VR2 : Power (1 W)
TC1 : VCO lock voltage (TX 2.5V or less)
L36 : AF level (Adjust to the MAX)
LV : VCO lock voltage terminal

VR200 : DQT/QT balance
VR201 : MAX deviation
+,– : External power supply terminal (Fasten it with an alligator clip.)