

TITLE

MODEL

# XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide

## Board Test

### Introduction:

This document covers the Board test RF failures for all variants for XT1561/XT1562/XT153/XT1564/XT1565. There may be reference designators listed that are intentionally left unplaced.

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## PCB Component Placement / Overlay: Overview:

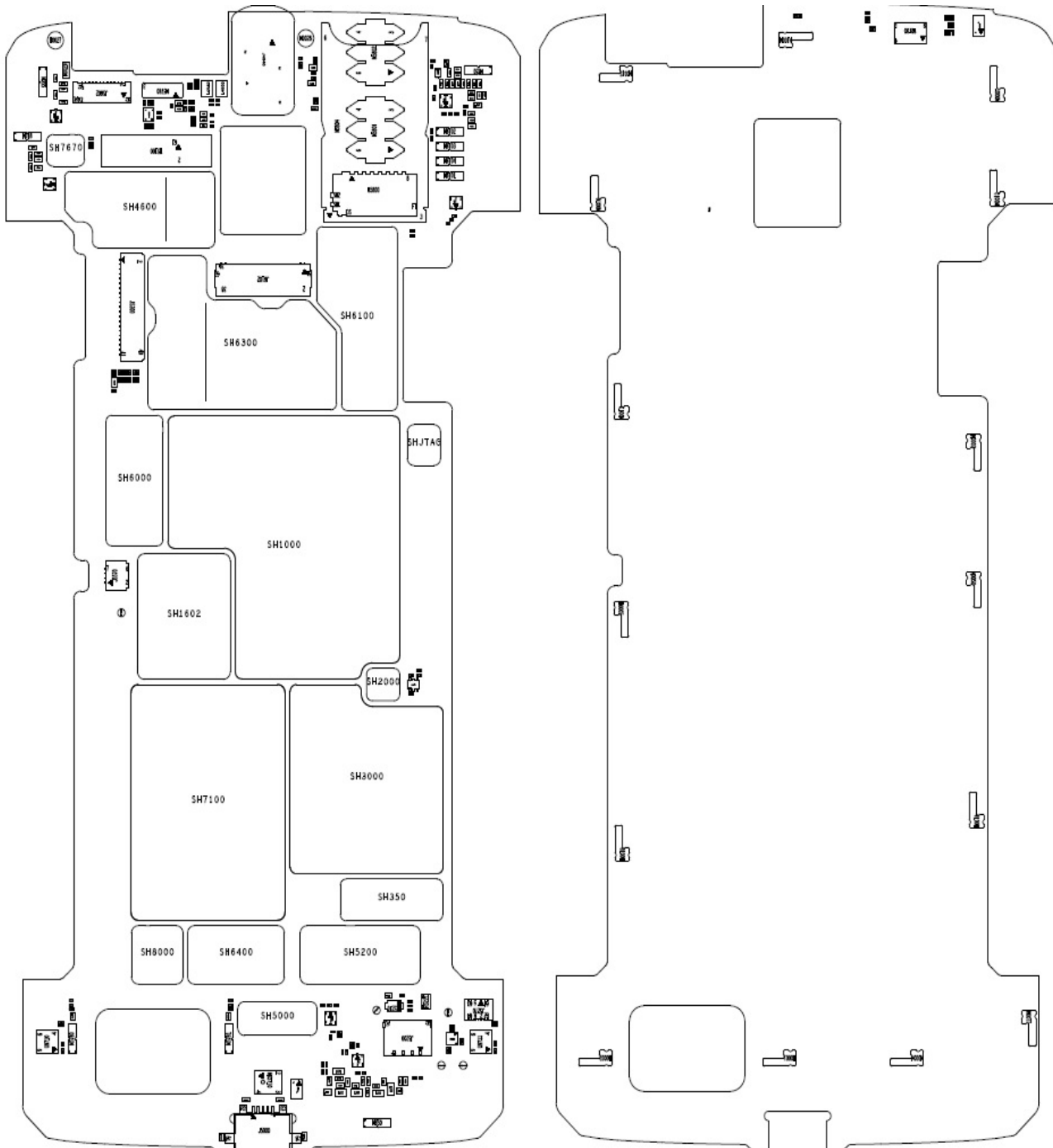


Figure 1.0

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# XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide

Board Test

XO:

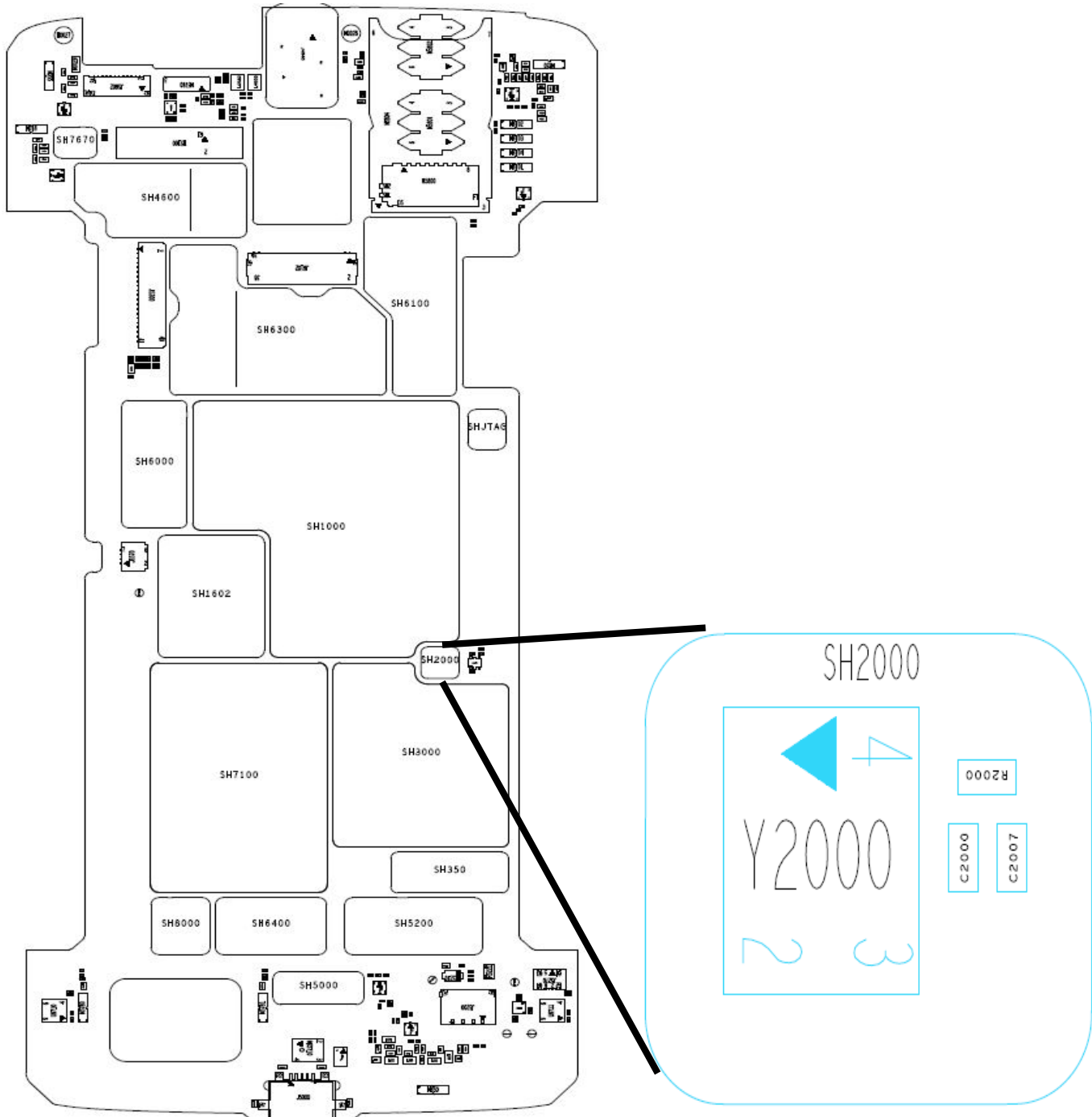


Figure 1.1

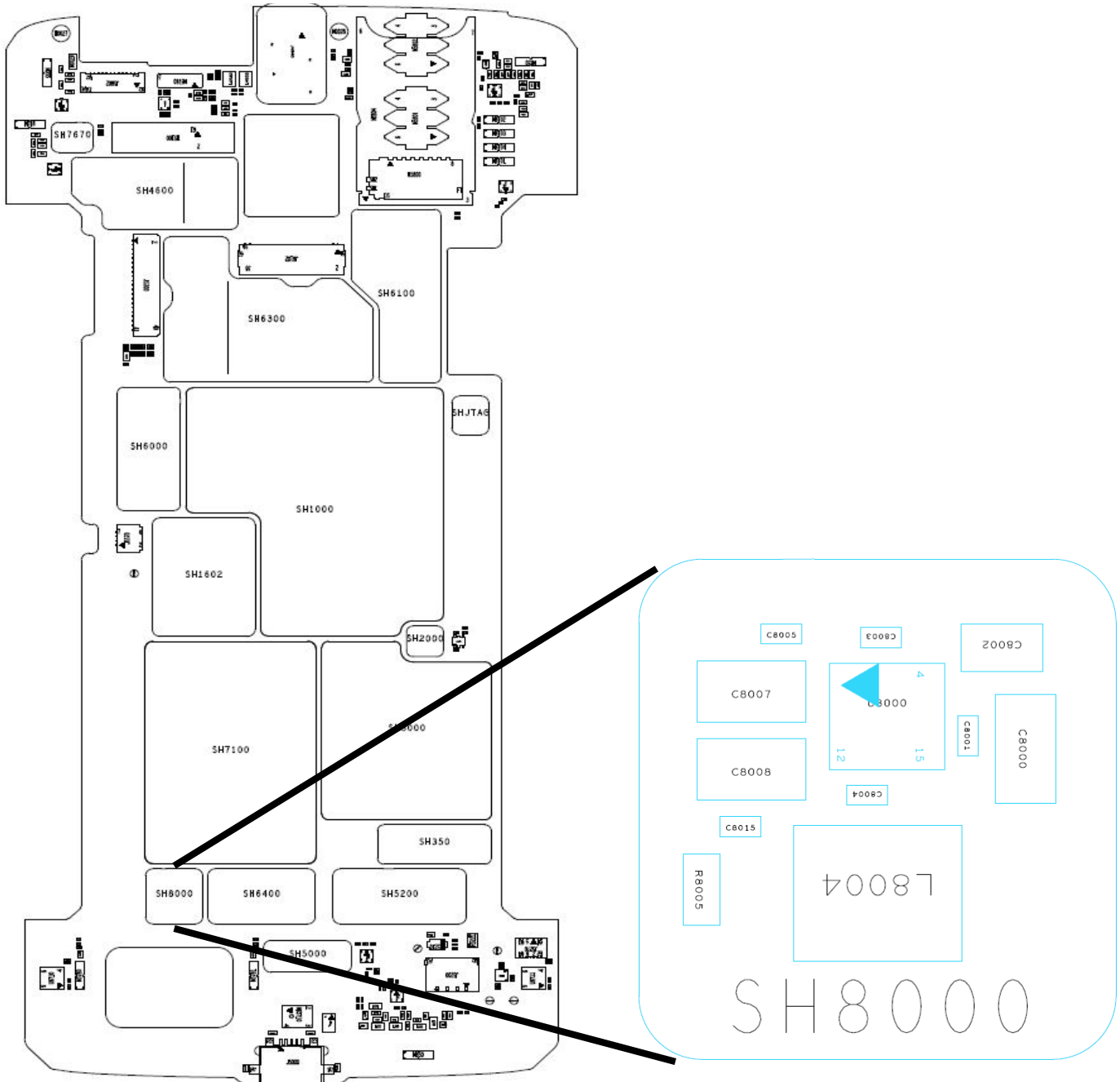
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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**SMPS:**



**Figure 1.2**

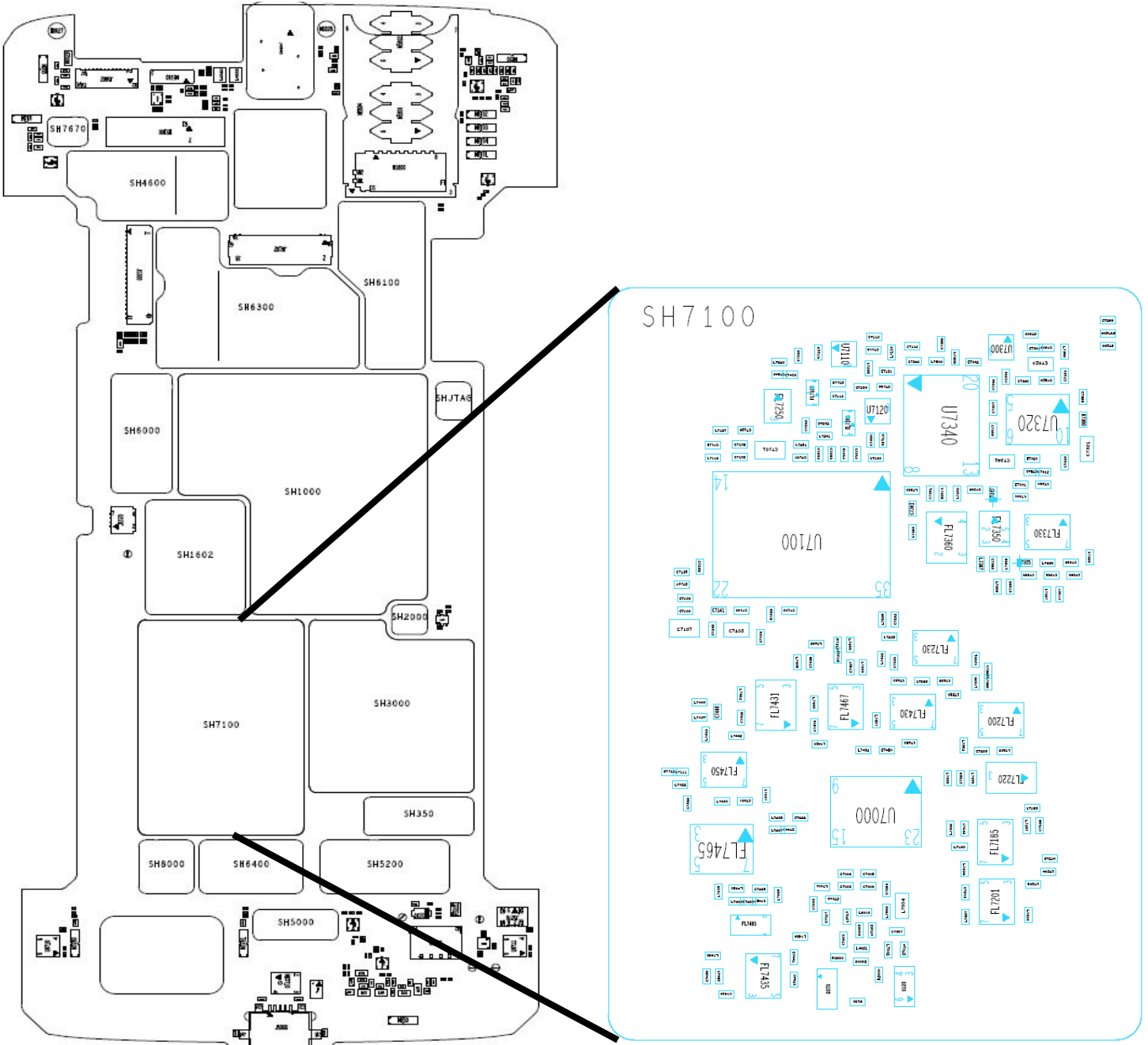
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# XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide

## Board Test

### Filters/PA:



**Figure 1.3**

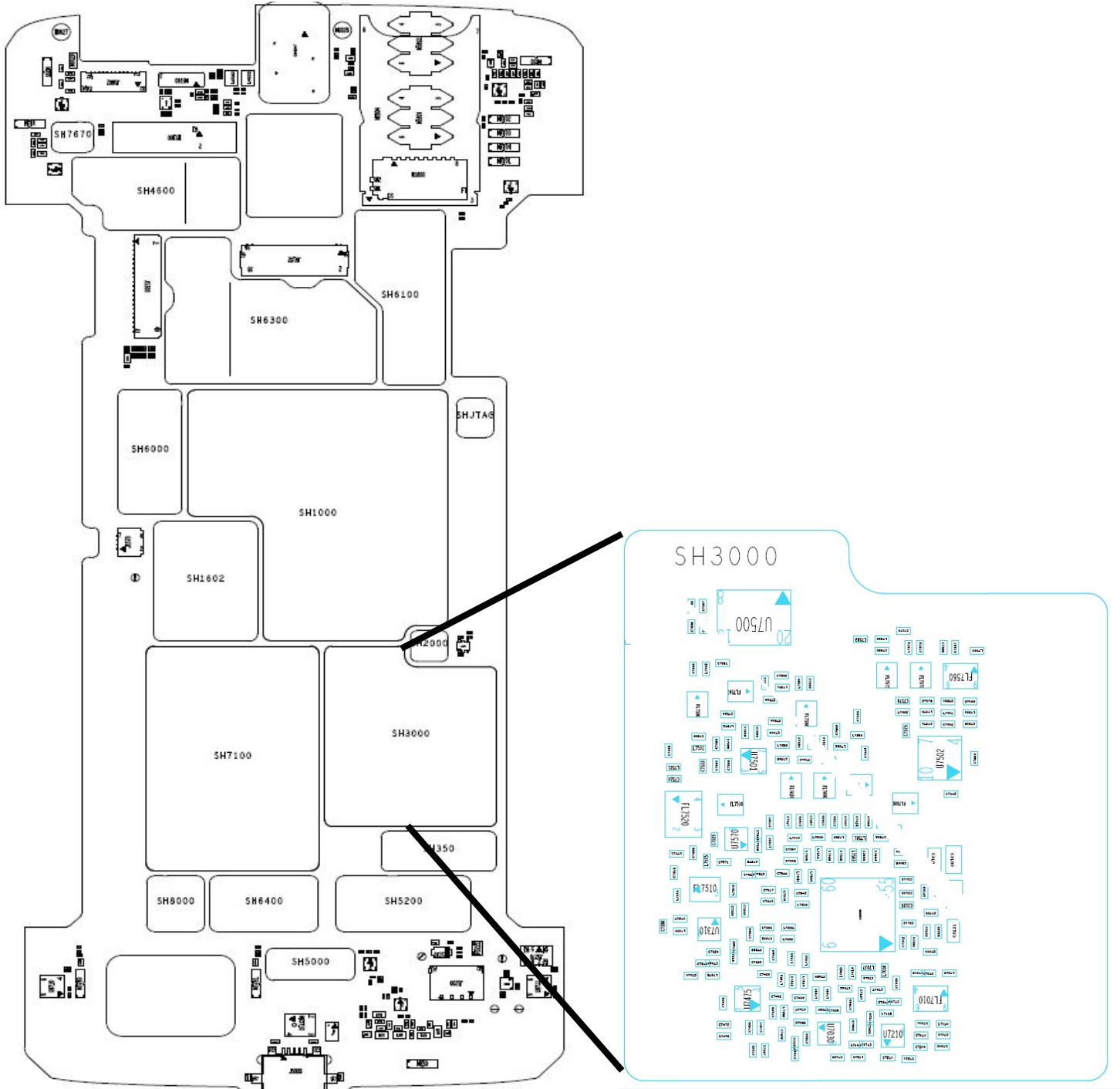
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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**LNA / TX Driver / Filters:**



**Figure 1.4**

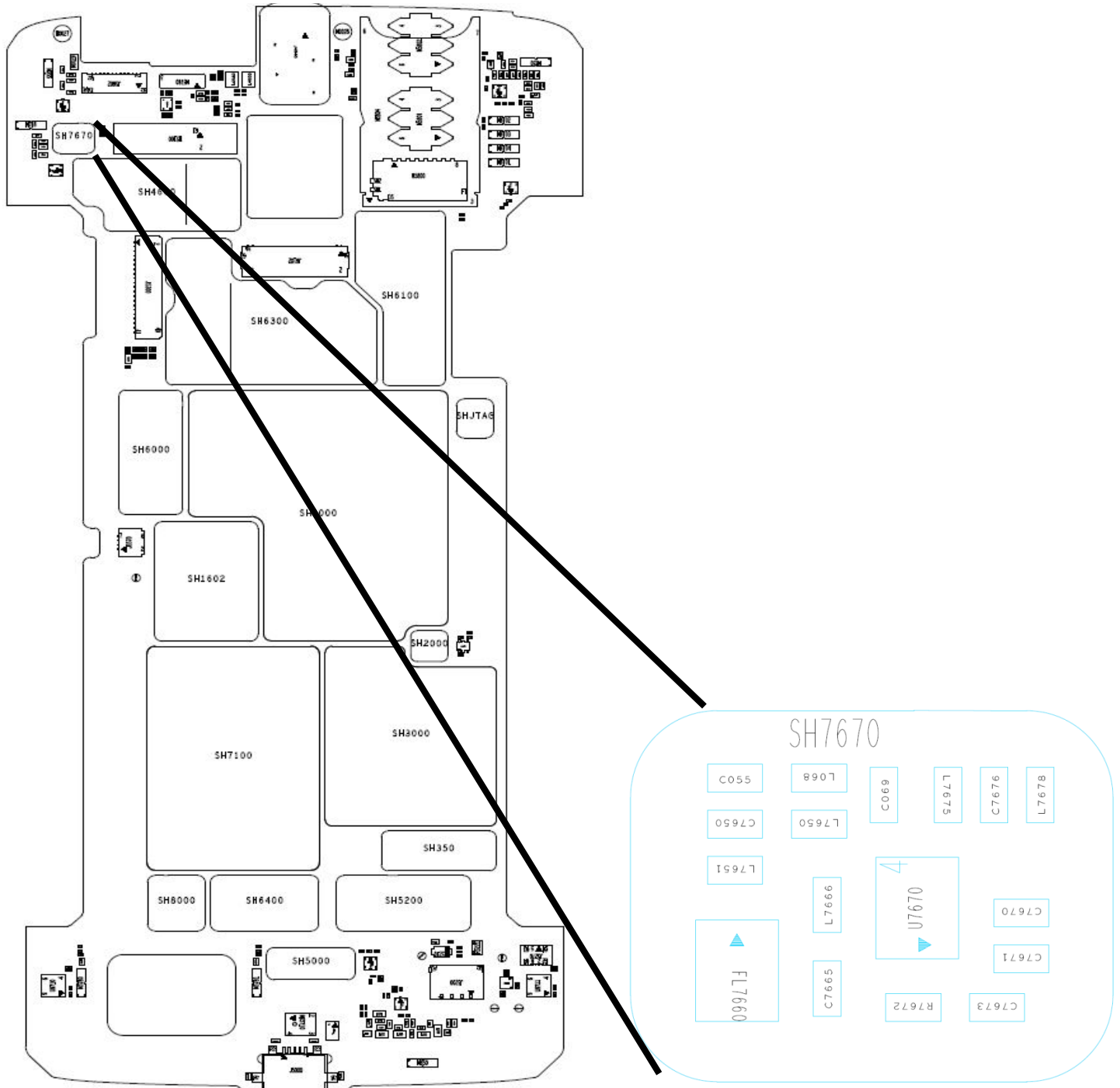
**GPS LNA/Filter:**

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**Figure 1.5**

**BT/ WIFI:**



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# XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide

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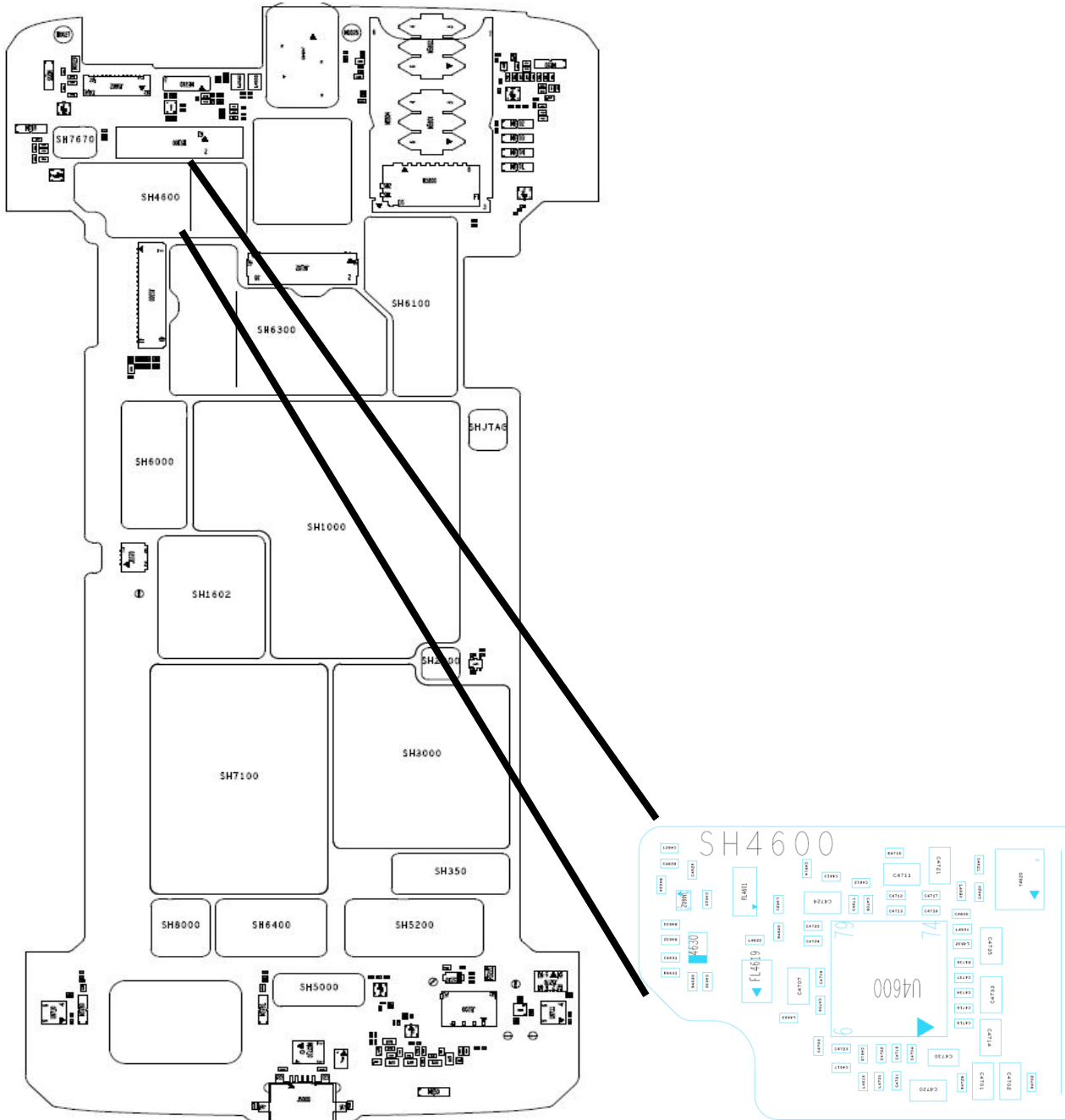


Figure 1.6

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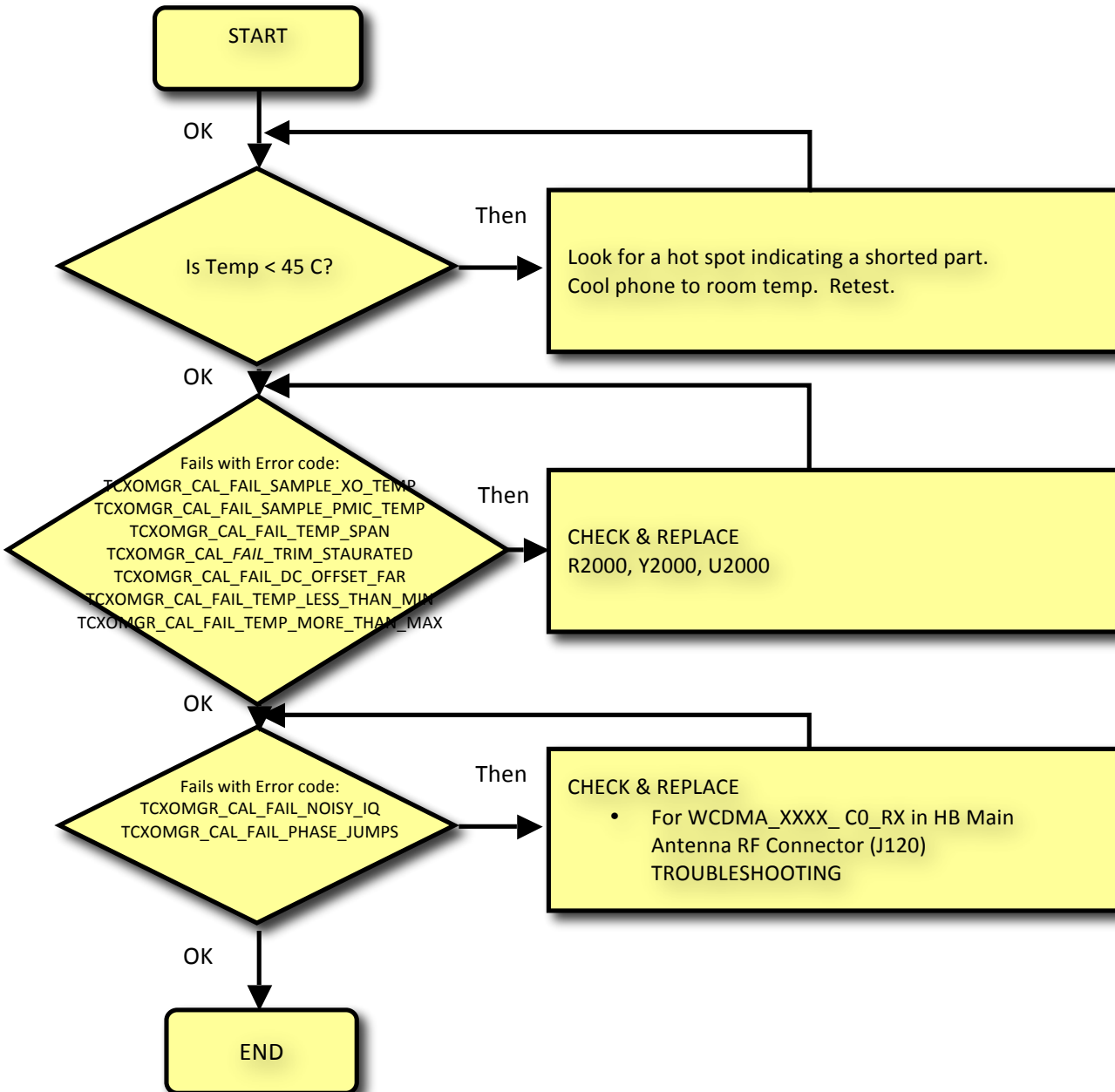
**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide**

**Board Test**

**XO\_CAL\_QC\_XXXX\_DC\_WCDMA TROUBLESHOOTING:**

The coarse XO cal is the first step in the crystal calibration. Coarse XO cal has nothing to do with the thermistor or board heating. You should be able to see the XO coming out of the PMIC at R2005,R2002. If you don't see any 19.2 MHz on an o-scope then there is something wrong in PMIC block or the XO itself. If one band passes and the other band fails, then there might be a missing part in the RF line-up for that band. If all the bands fail and there is 19.2 MHz getting to WTR, then this would narrow it down to the WTR.

Check Chart:



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# XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide

Board Test

Schematic and board overlay:

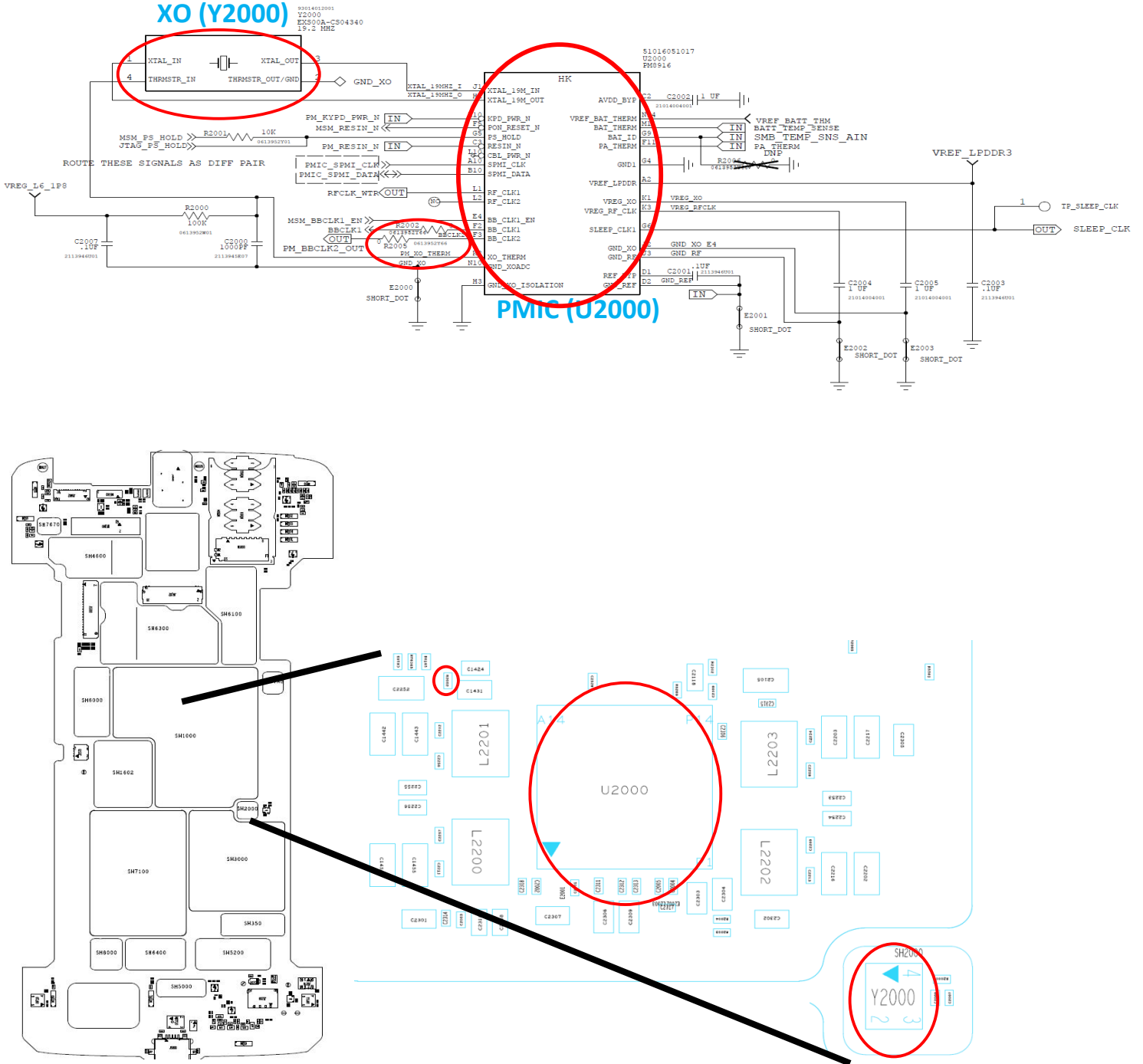


Figure 2.0

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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide**

**Board Test**

**LB Main Antenna RF Connector (J100) TROUBLESHOOTING:  
LB Reference Schematic:**

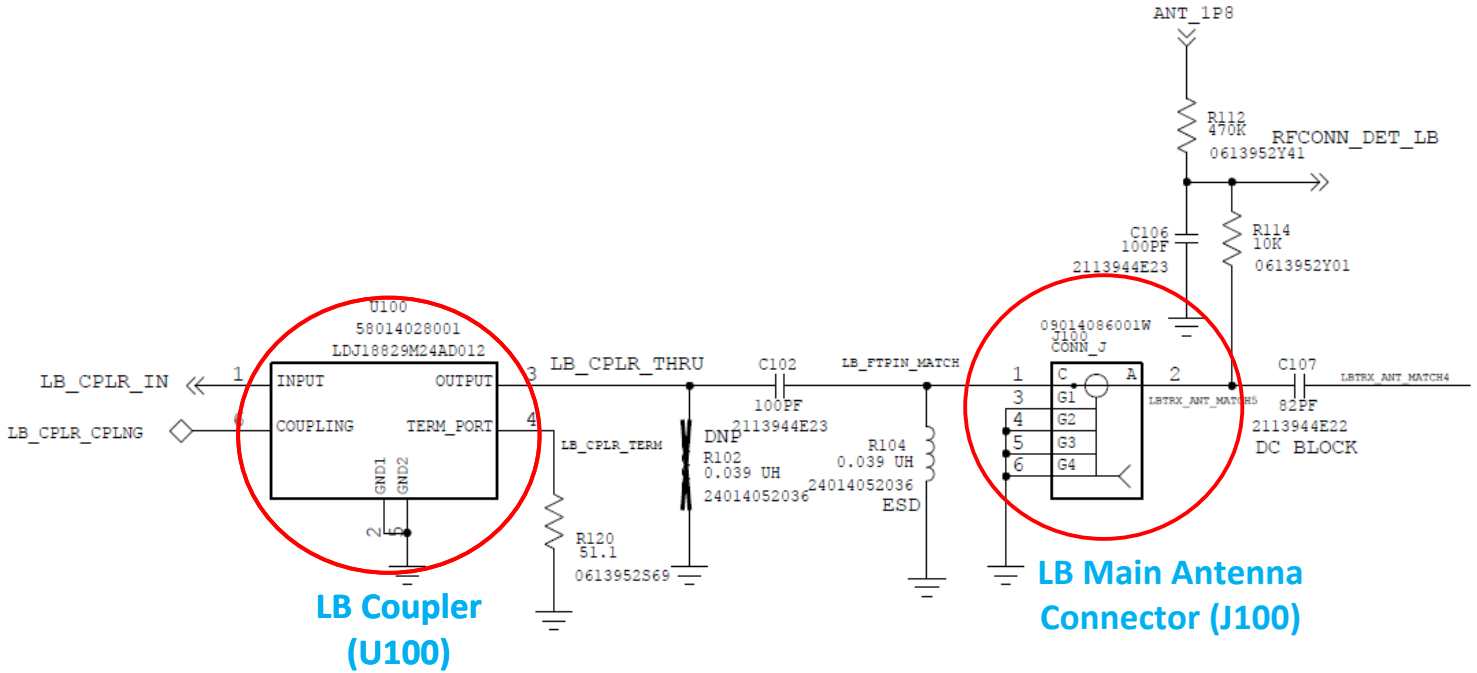


Figure 3.0

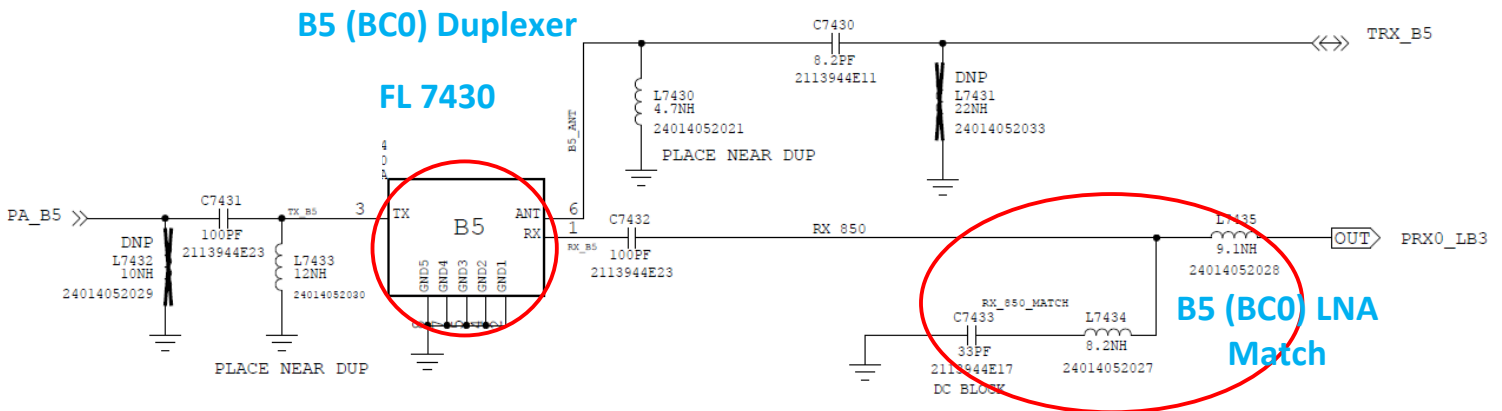


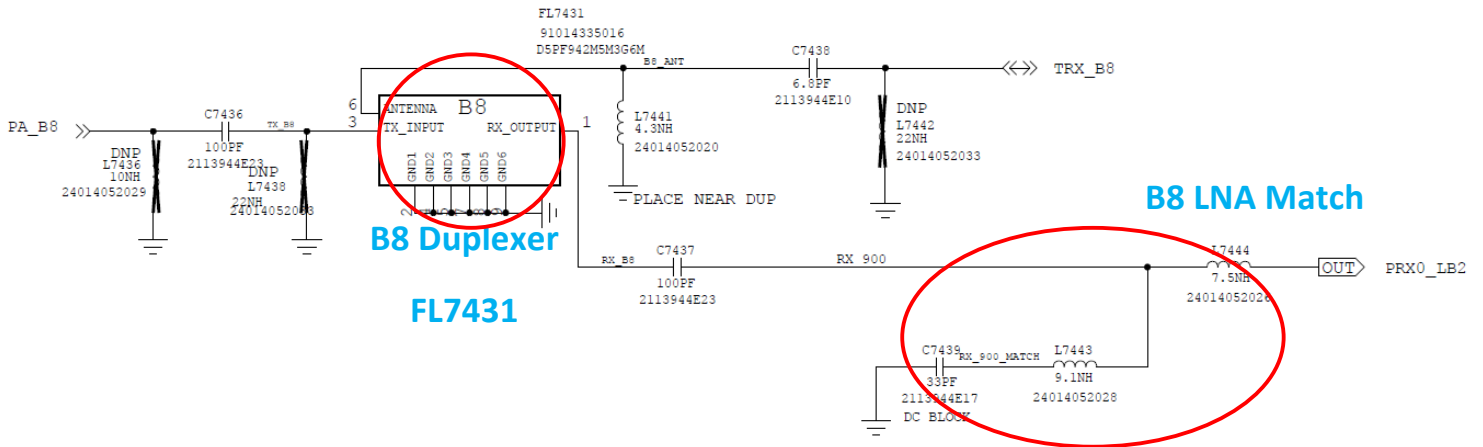
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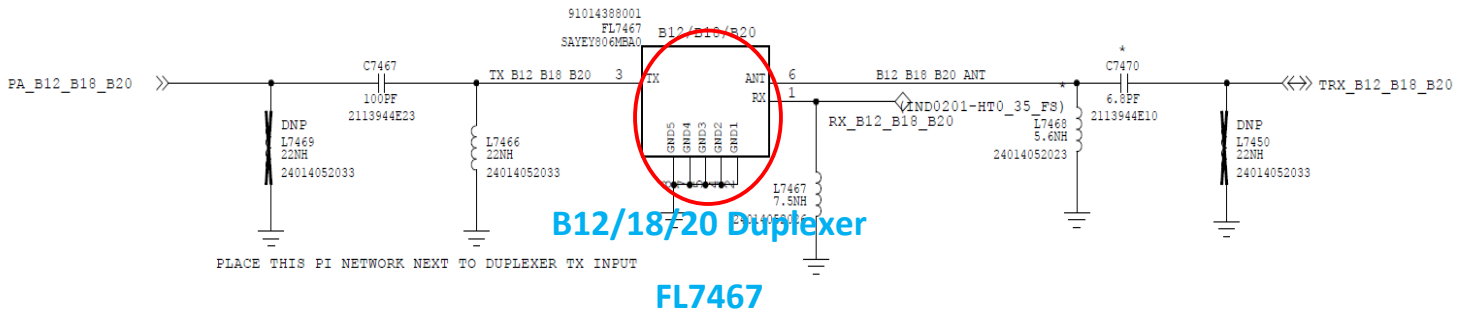
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**Board Test**



**Figure 3.2**



**Figure 3.3**

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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide**

**Board Test**

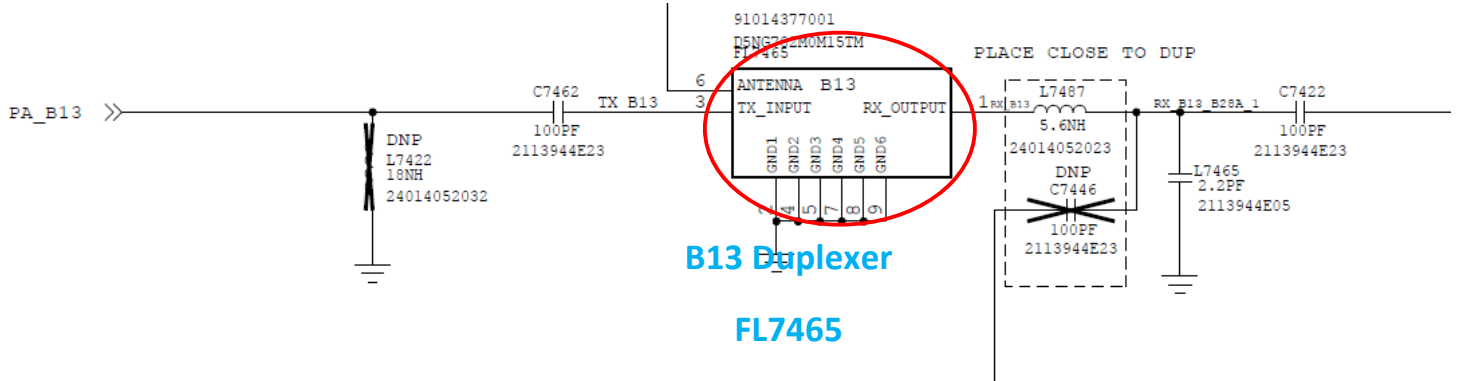
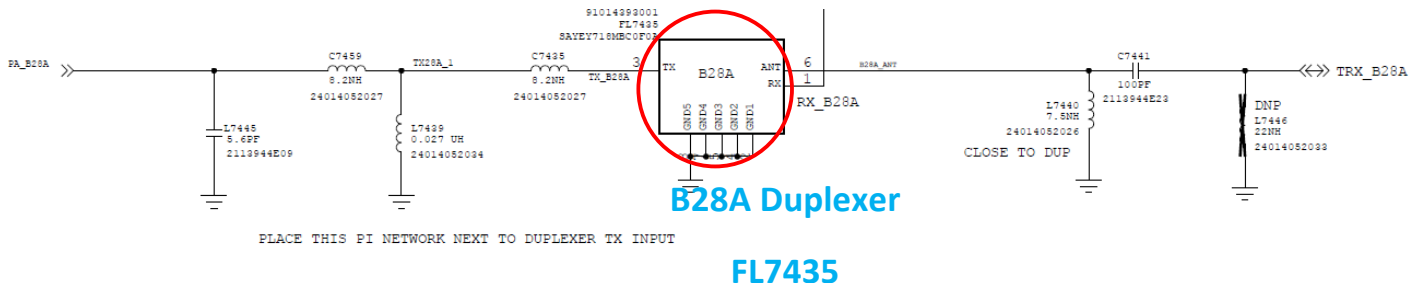


Figure 3.4



**B28B Duplexer**

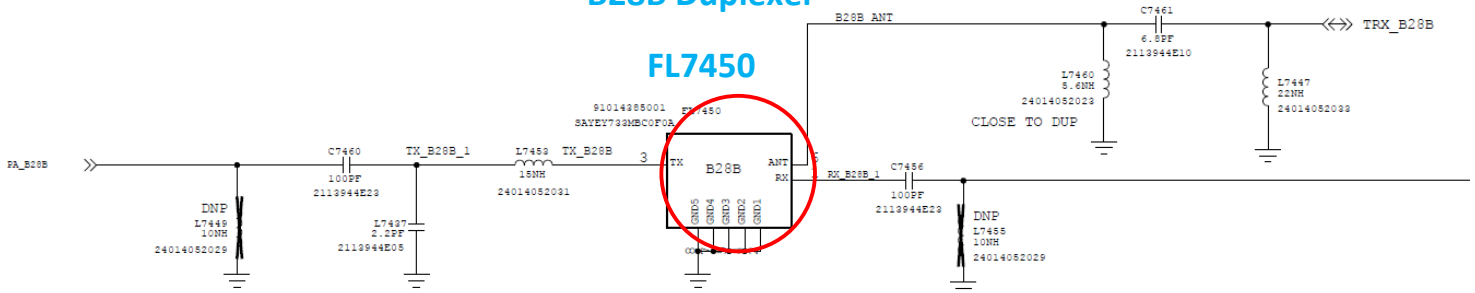


Figure 3.5

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# XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide

Board Test

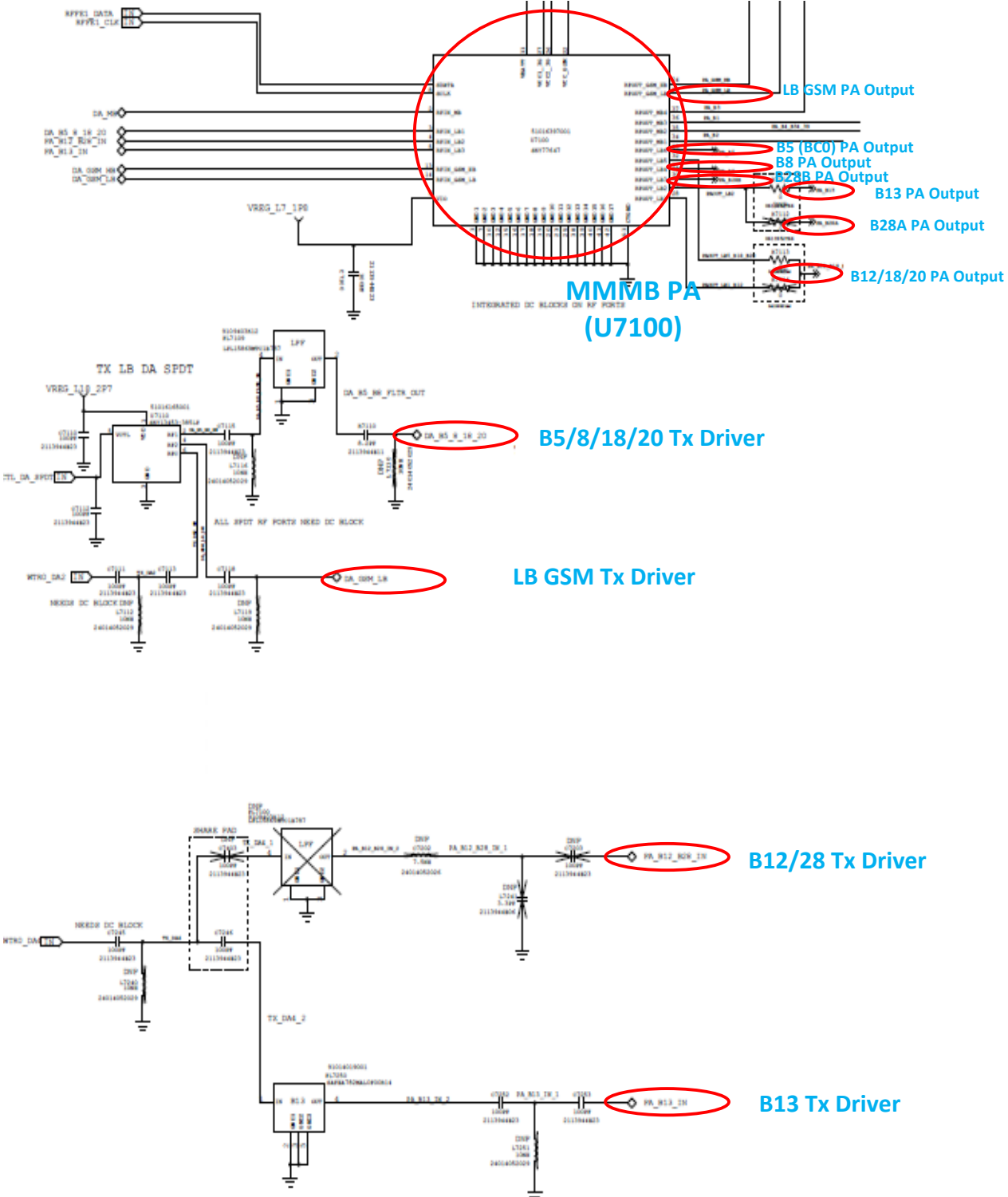


Figure 3.6

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# XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide

Board Test

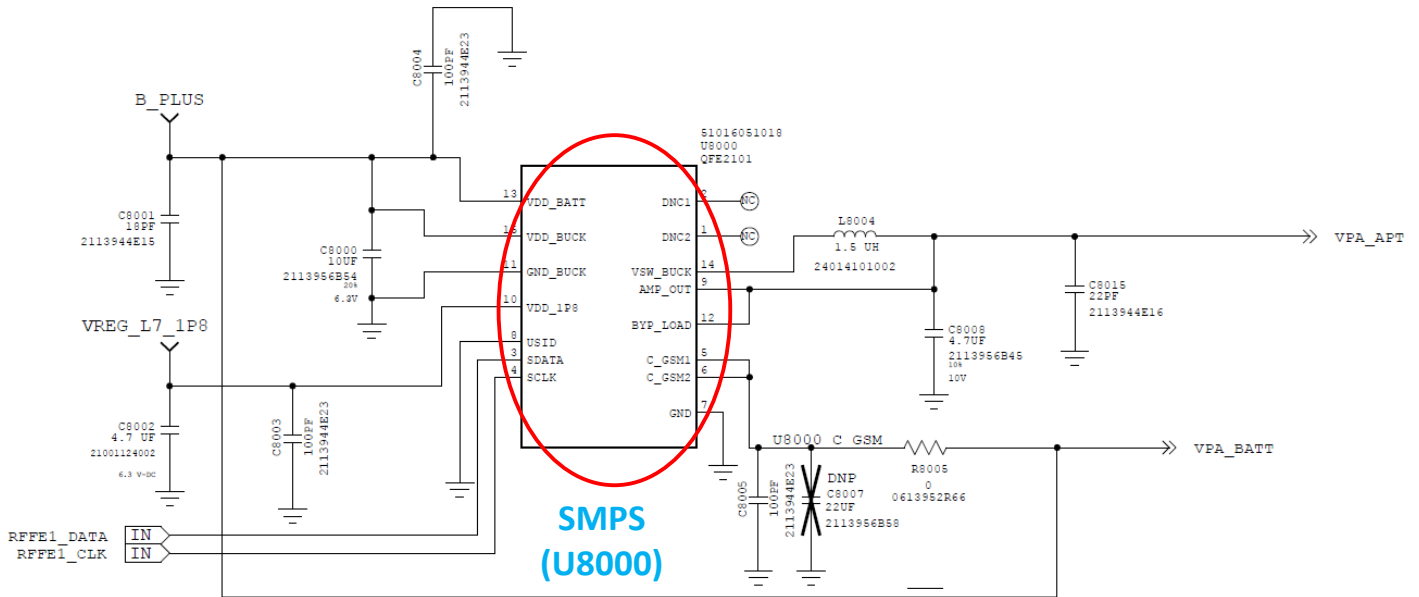


Figure 3.7

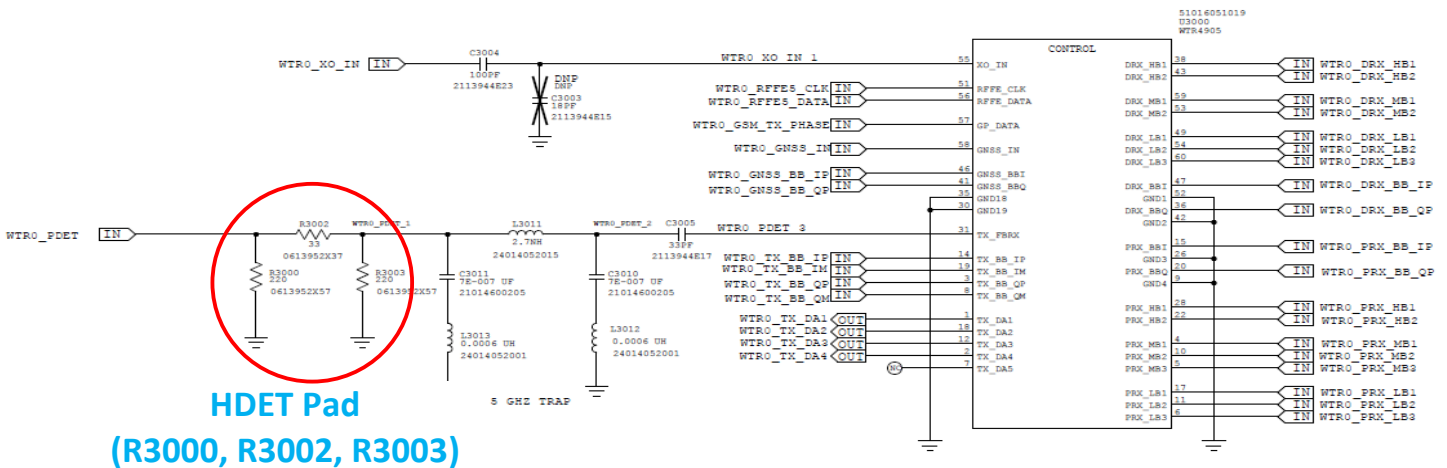


Figure 3.8

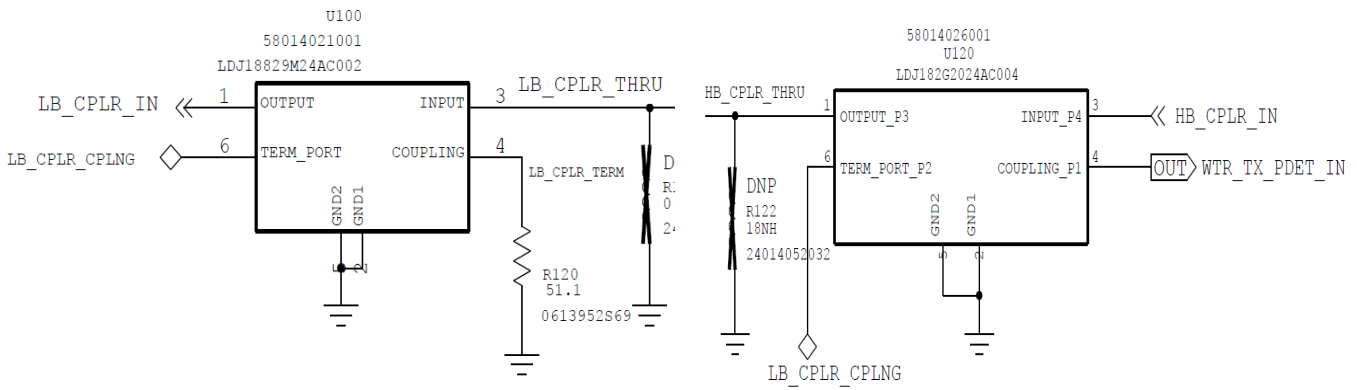


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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide**

**Board Test**



**Figure 3.9**

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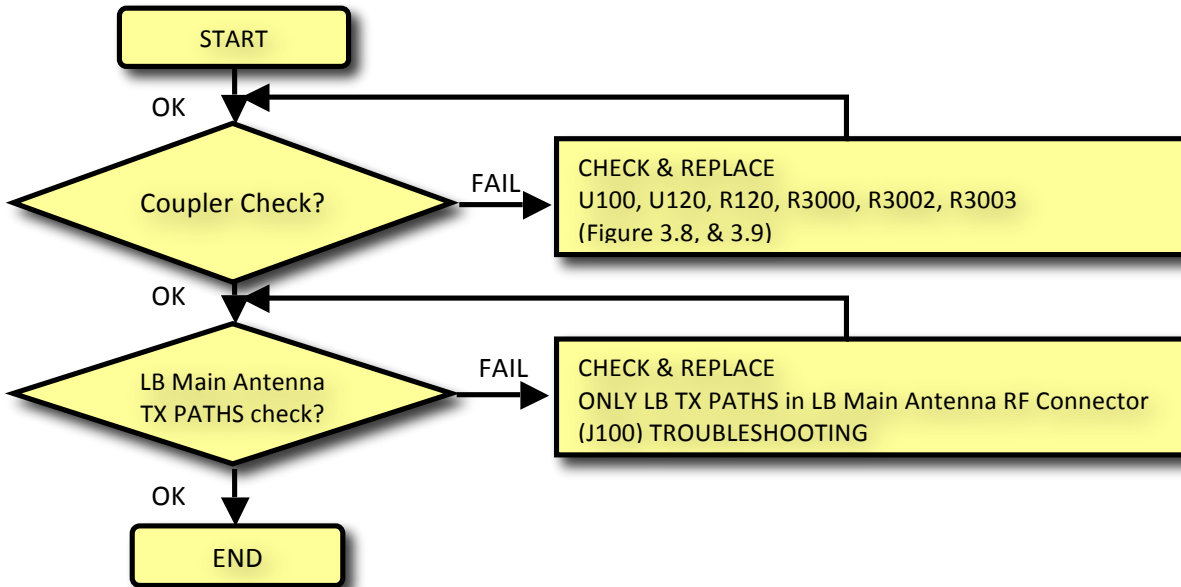
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## LB HDET TROUBLESHOOTING:

Check Chart:



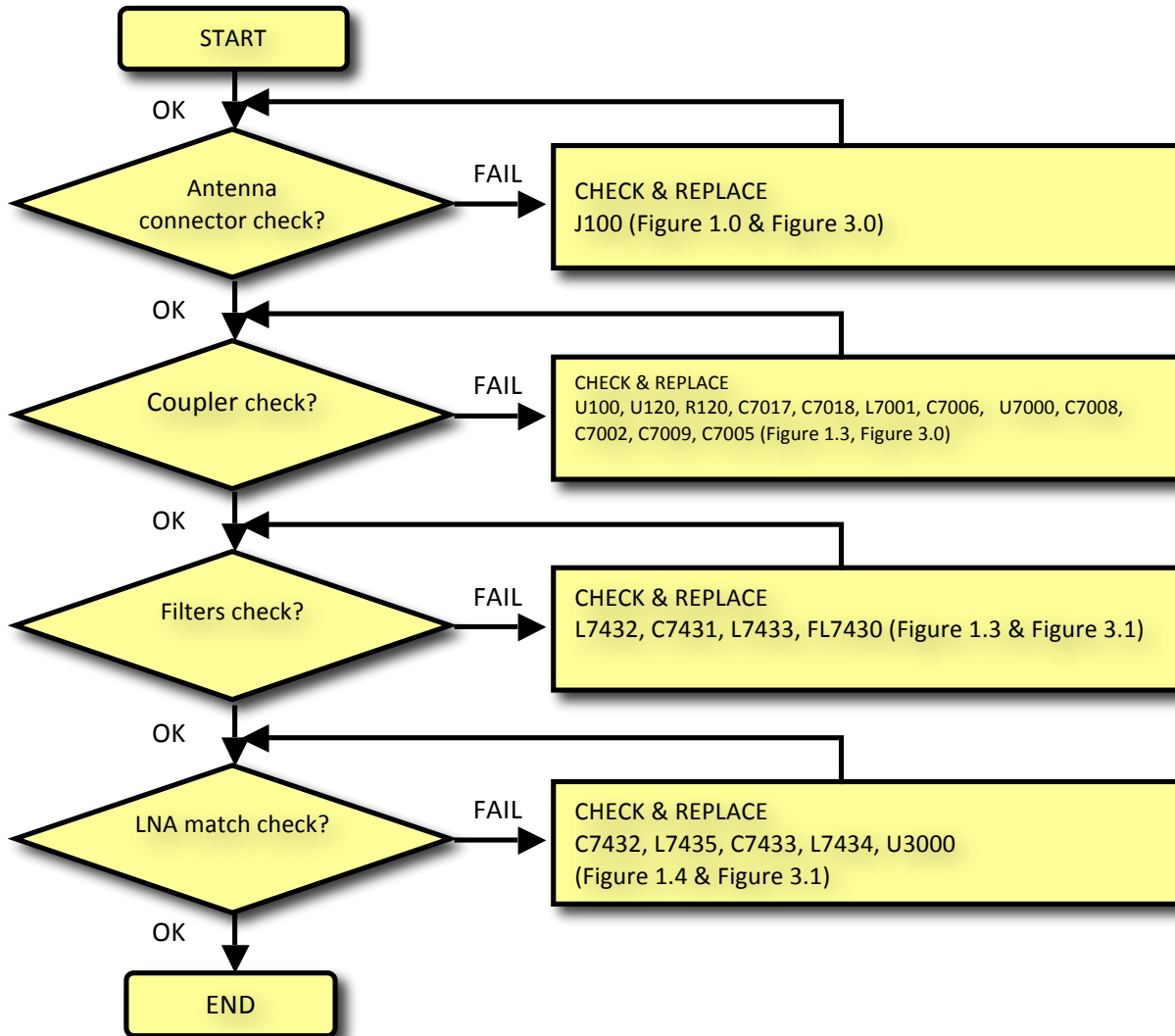
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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
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**Board Test**

**CDMA\_800\_C0\_RX, GSM\_850(G850)\_RX, WCDMA\_850\_C0\_RX, &  
LTE\_Band\_5\_C0\_RX:**  
Check Chart:



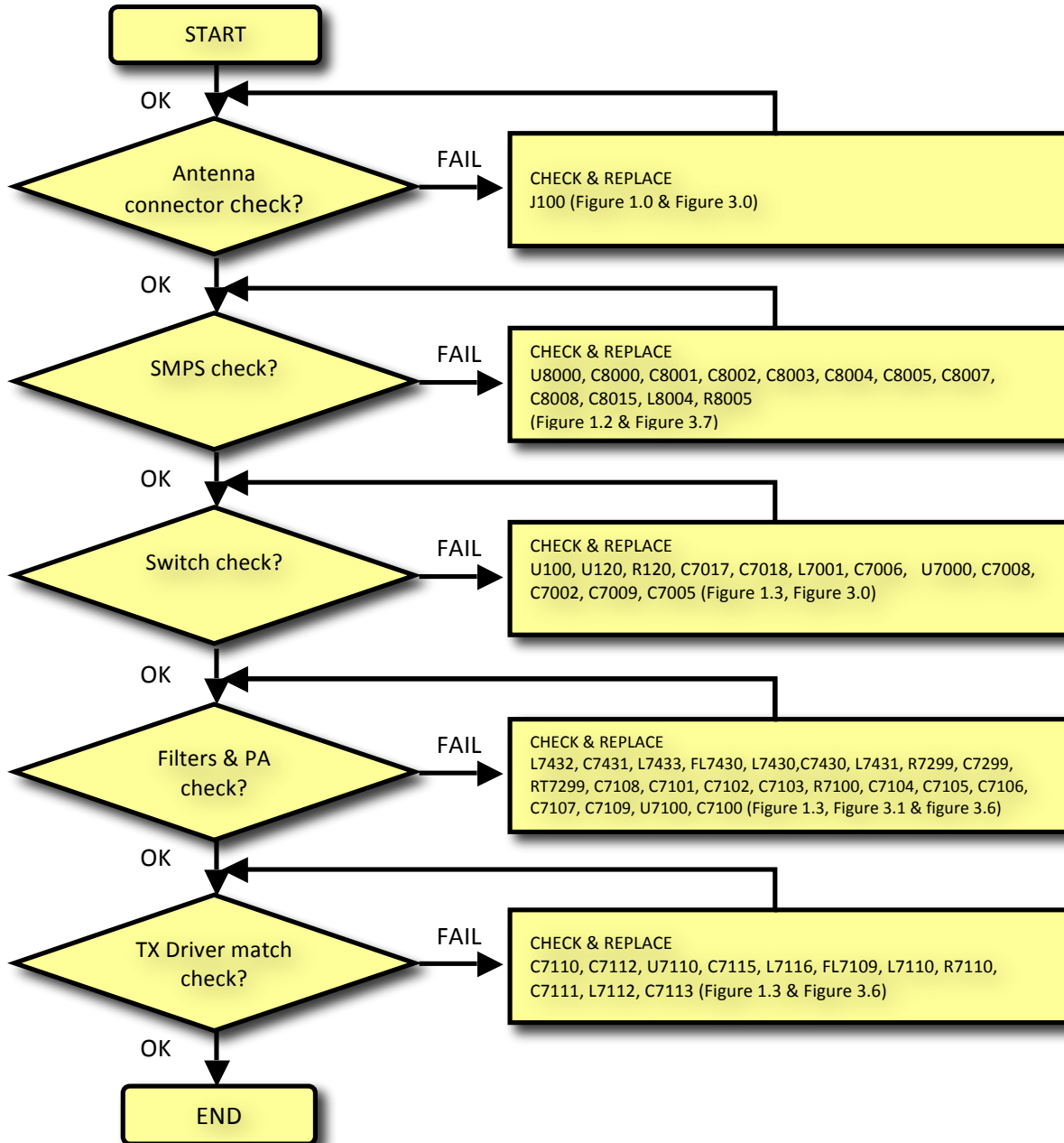
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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**CDMA\_800\_C0\_TX, WCDMA\_850\_C0\_TX, & LTE\_Band\_5\_C0\_TX:  
Check Chart:**



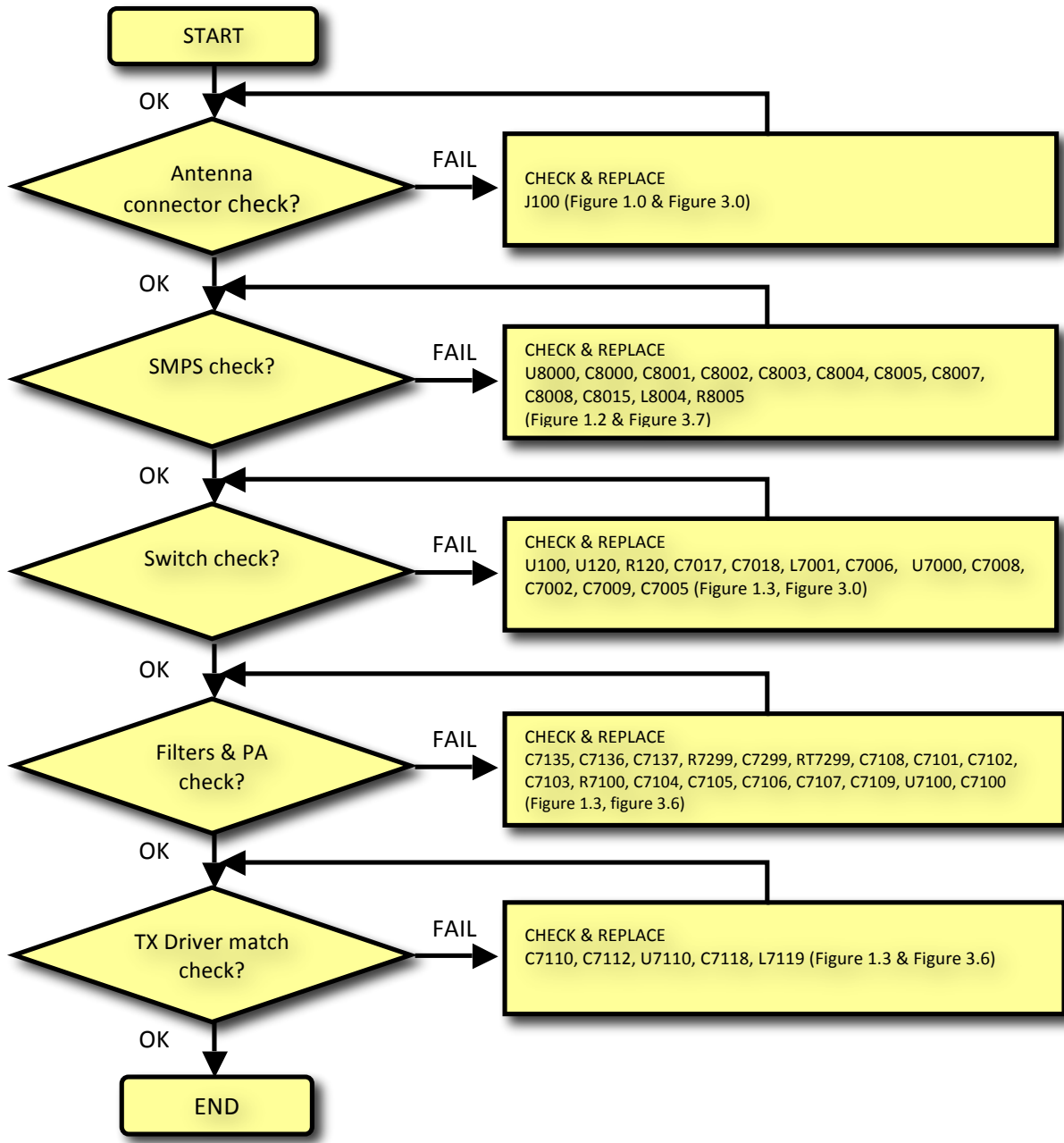
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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
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**Board Test**

**GSM\_850(G850)\_TX, EDGE\_850\_TX, GSM\_900\_TX, & EDGE\_900\_TX  
Check Chart**



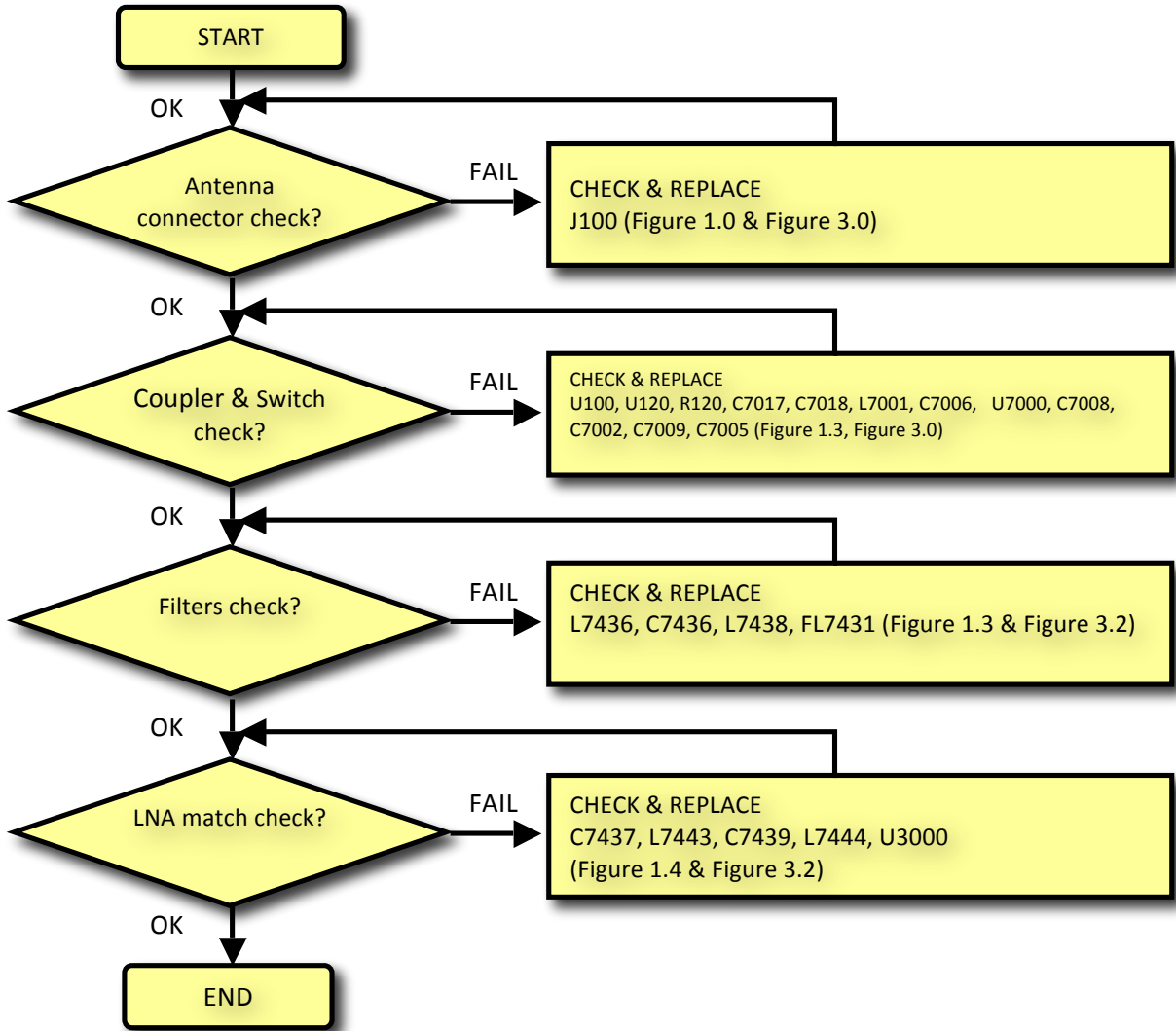
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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**GSM\_900(G900)\_RX & WCDMA\_900\_C0\_RX  
Check Chart**



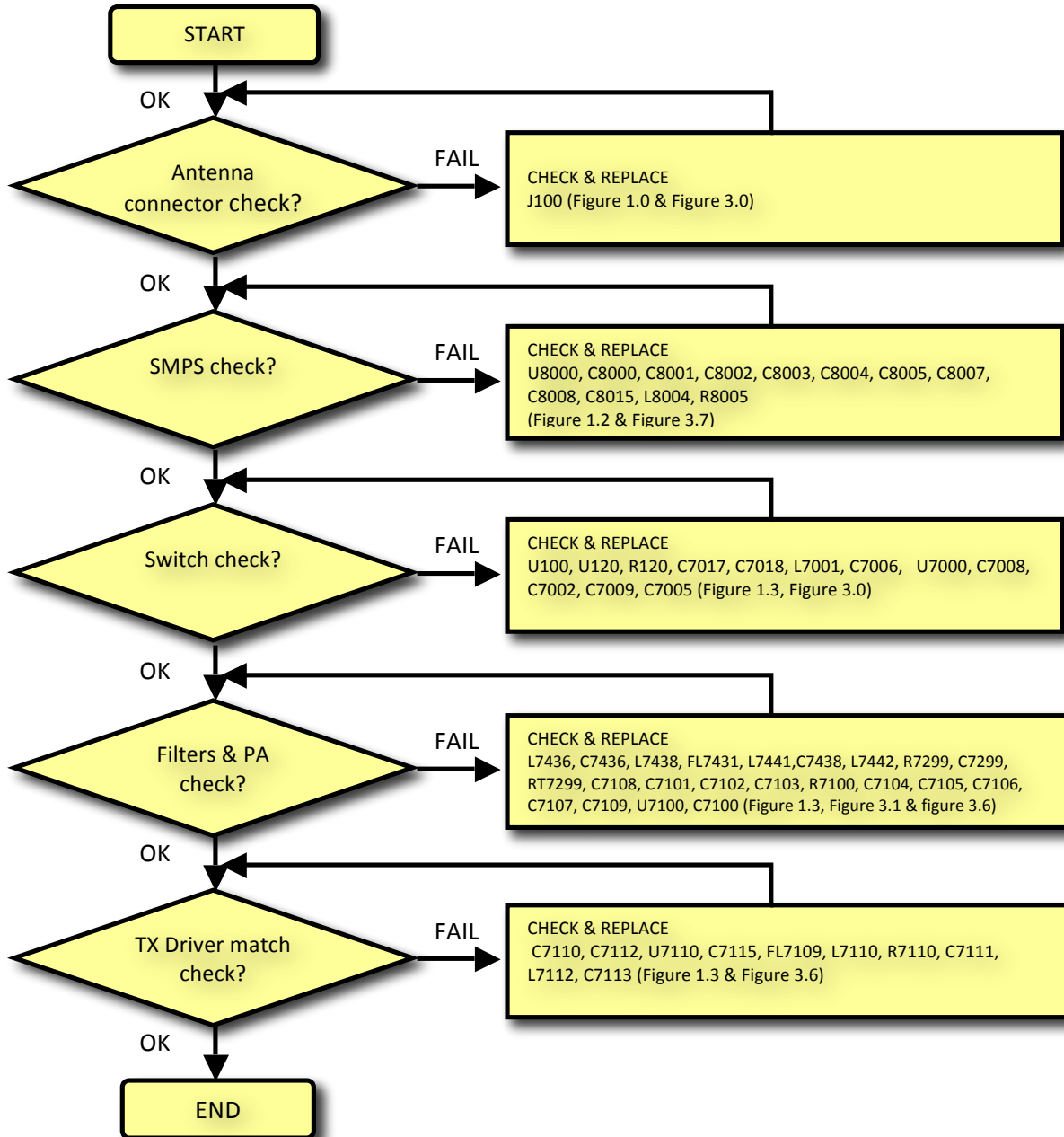
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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**WCDMA\_900\_C0\_TX & LTE B8  
Check Chart**



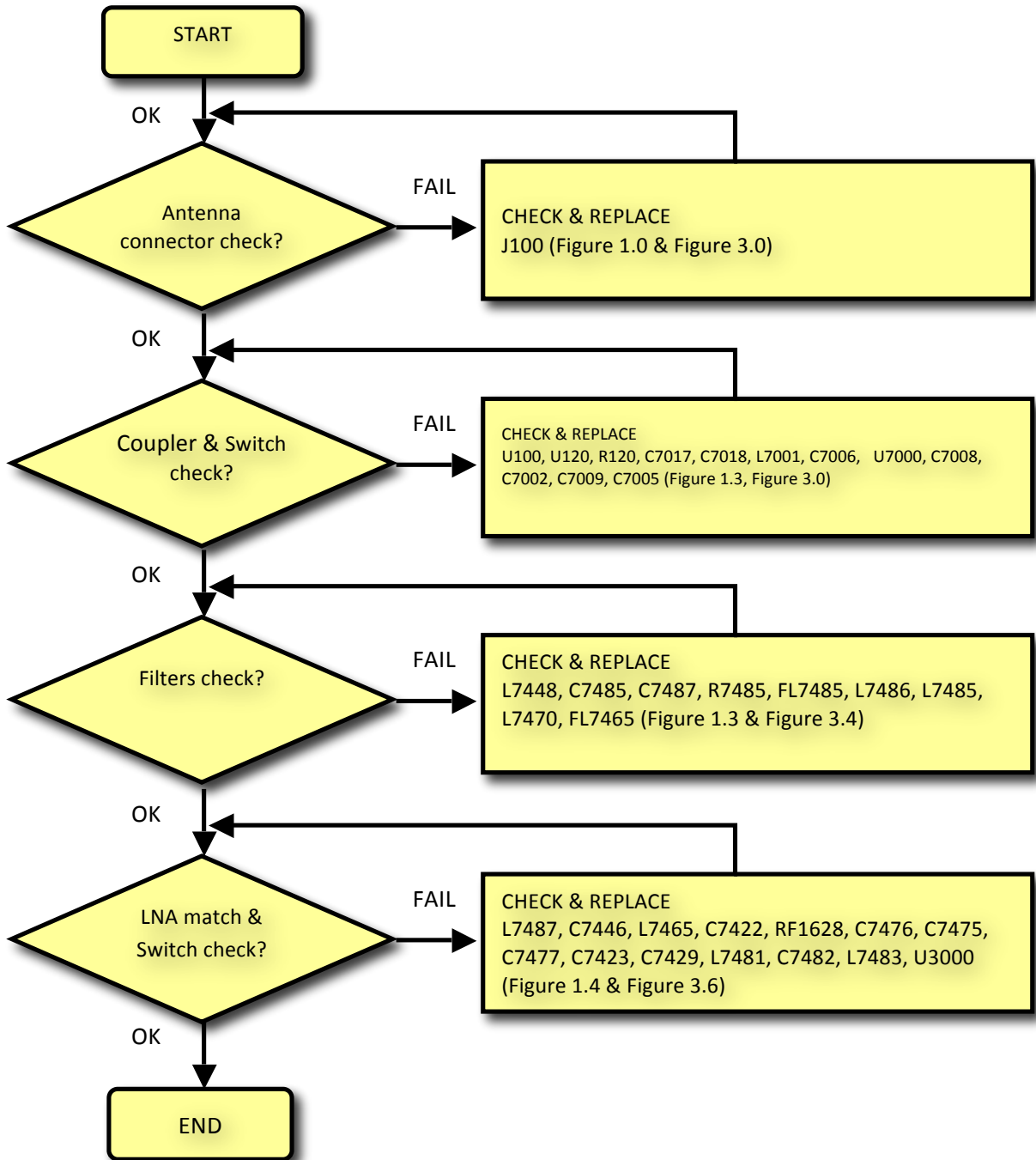
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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**LTE\_Band\_13\_C0\_RX  
Check Chart**





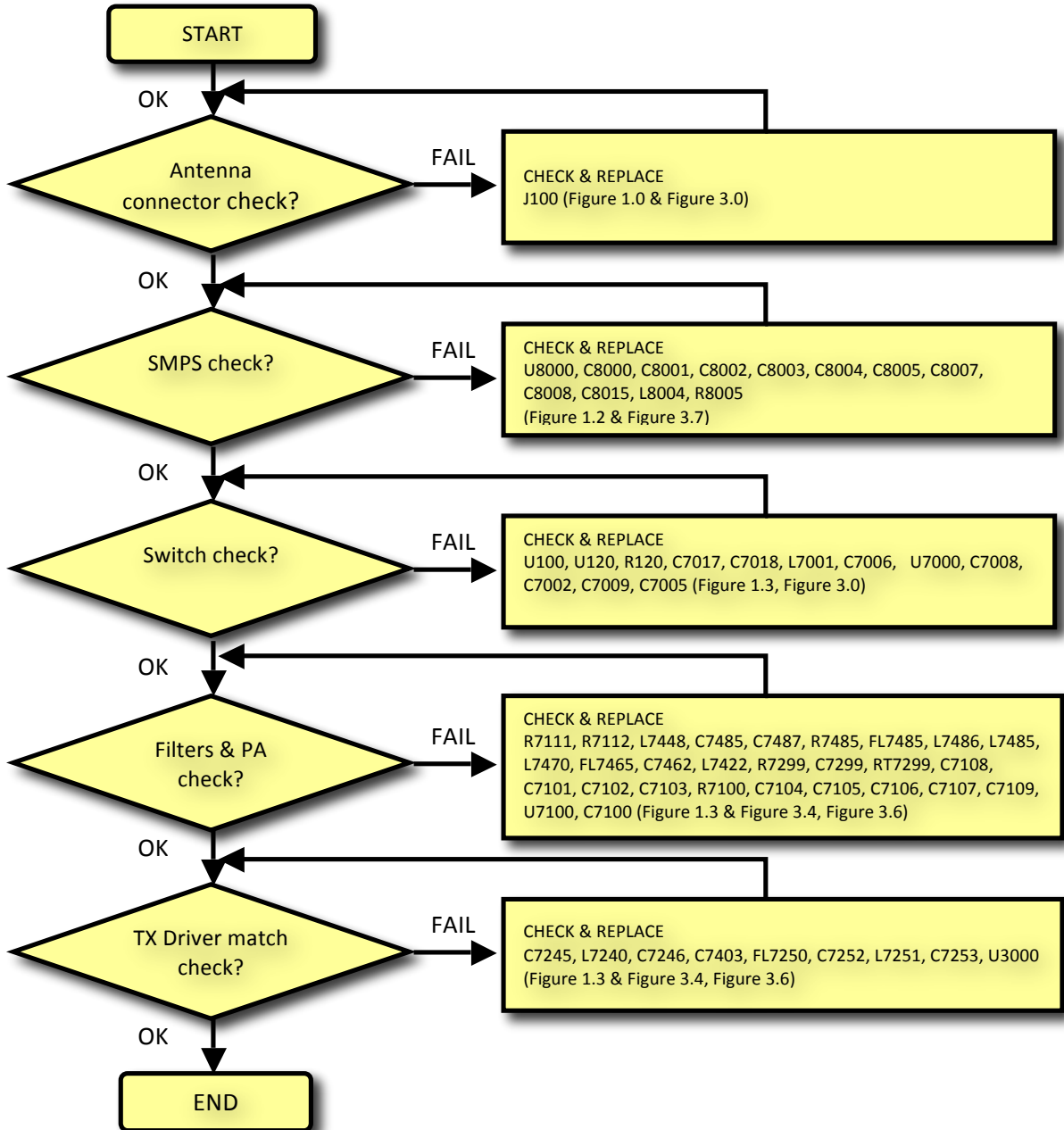
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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide**

**Board Test**

**LTE\_Band\_13\_C0\_TX**  
Check Chart



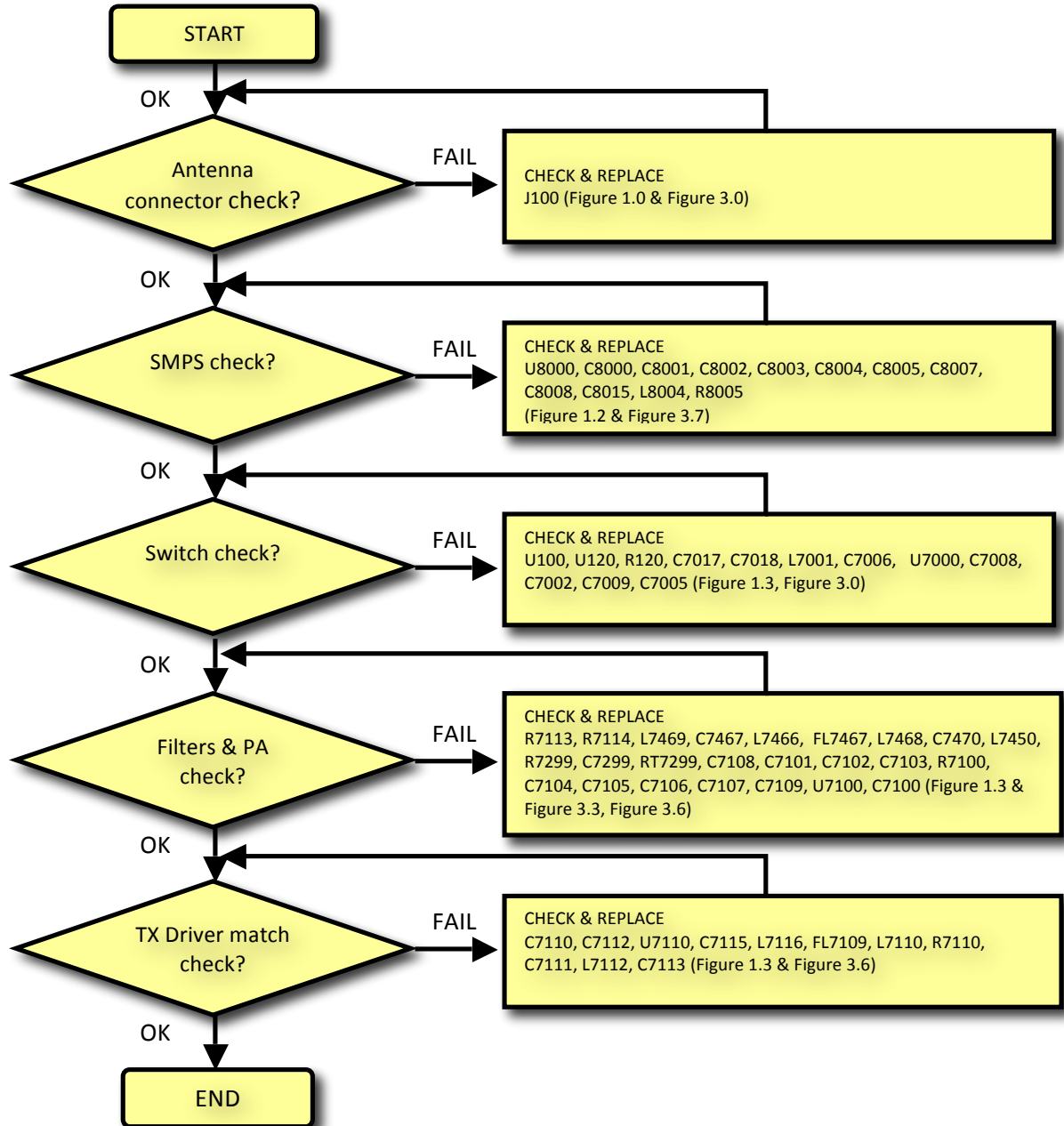
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**Board Test**

**Band\_18\_20\_C0\_TX  
Check Chart**



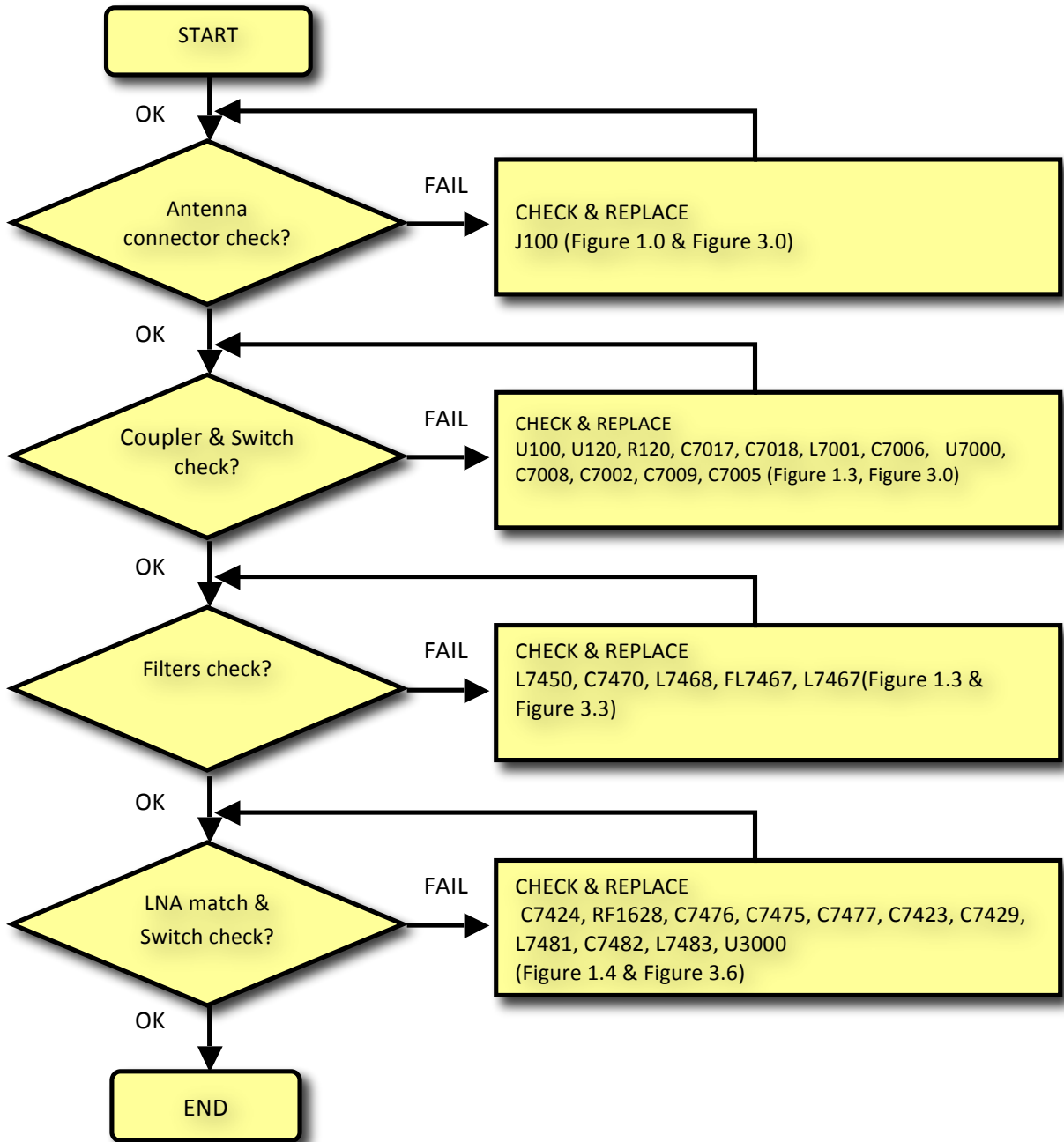
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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
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**Board Test**

**Band\_18\_20\_C0\_RX  
Check Chart**



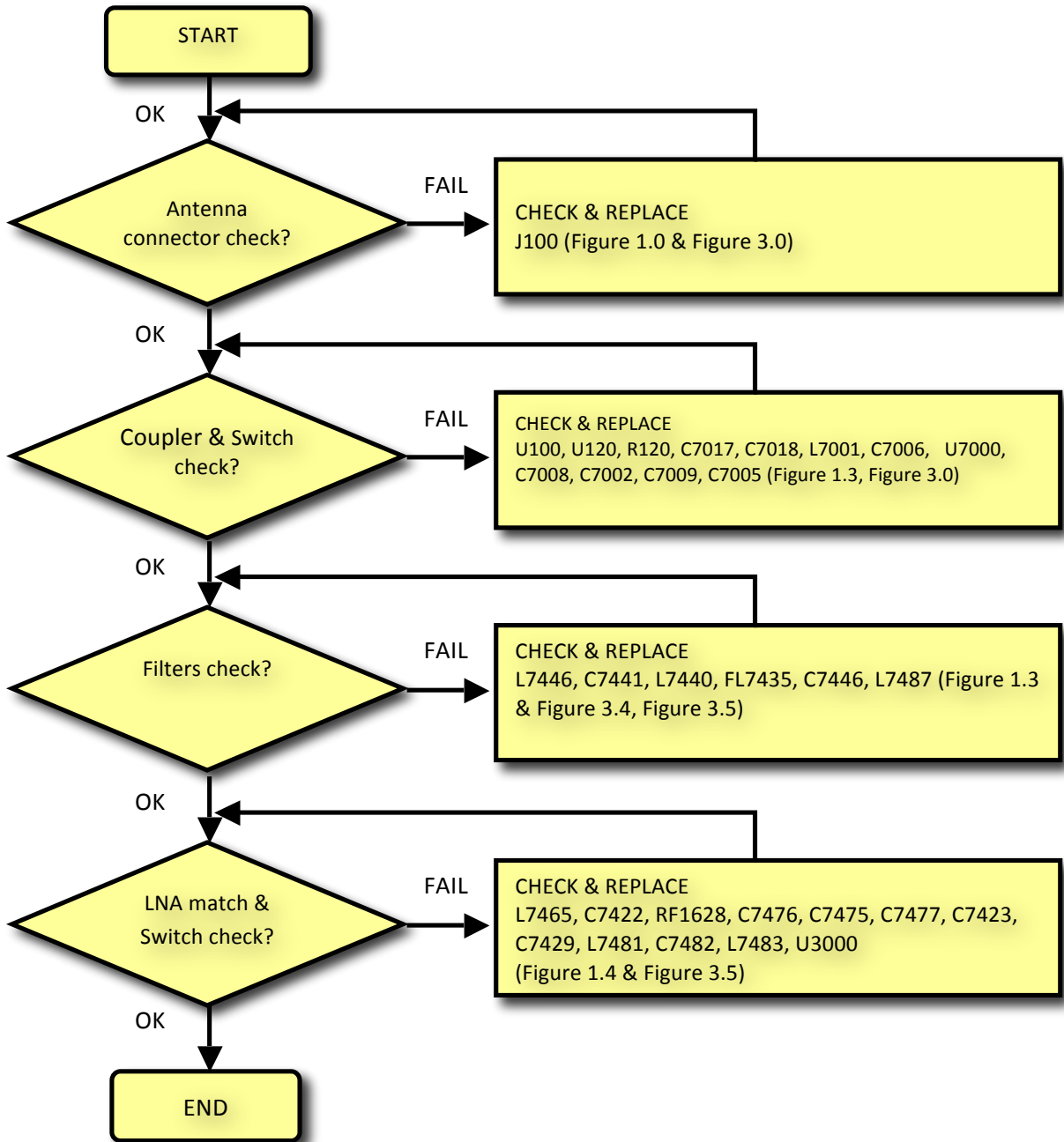
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**Board Test**

**Band\_28A\_C0\_RX  
Check Chart**



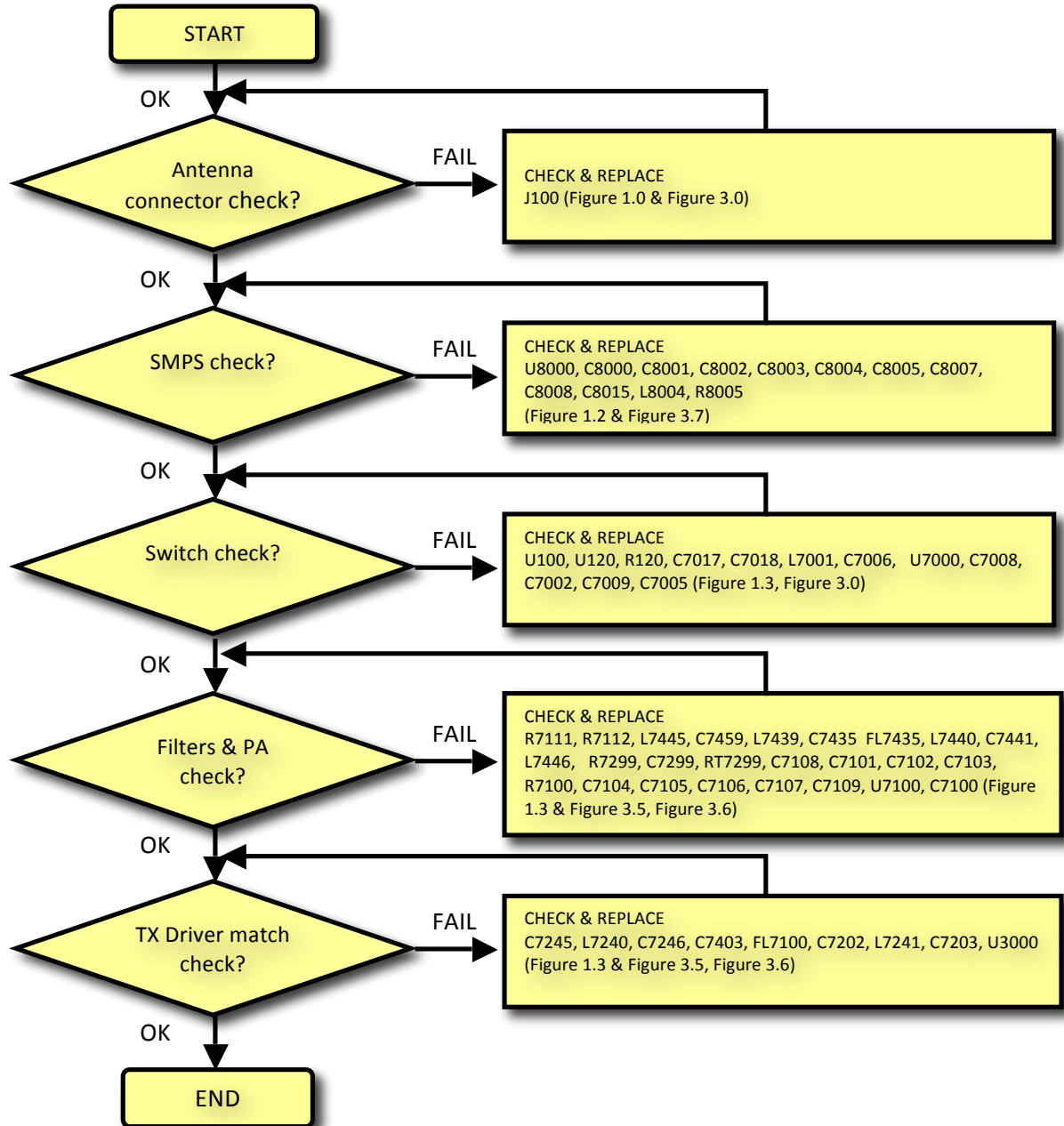
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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide**

**Board Test**

**Band\_28A\_C0\_TX**  
Check Chart



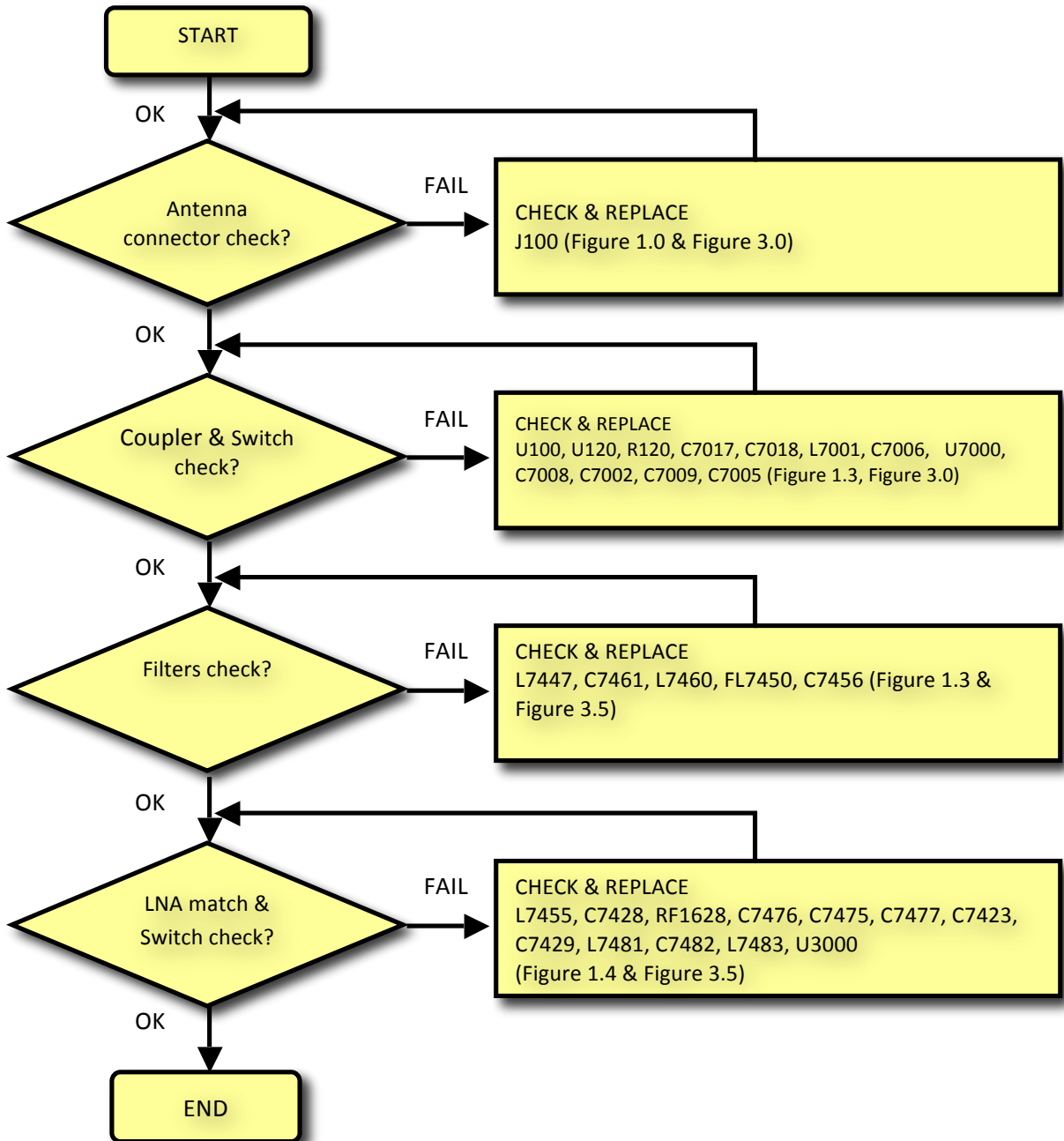
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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
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**Board Test**

**Band\_28B\_C0\_RX  
Check Chart**



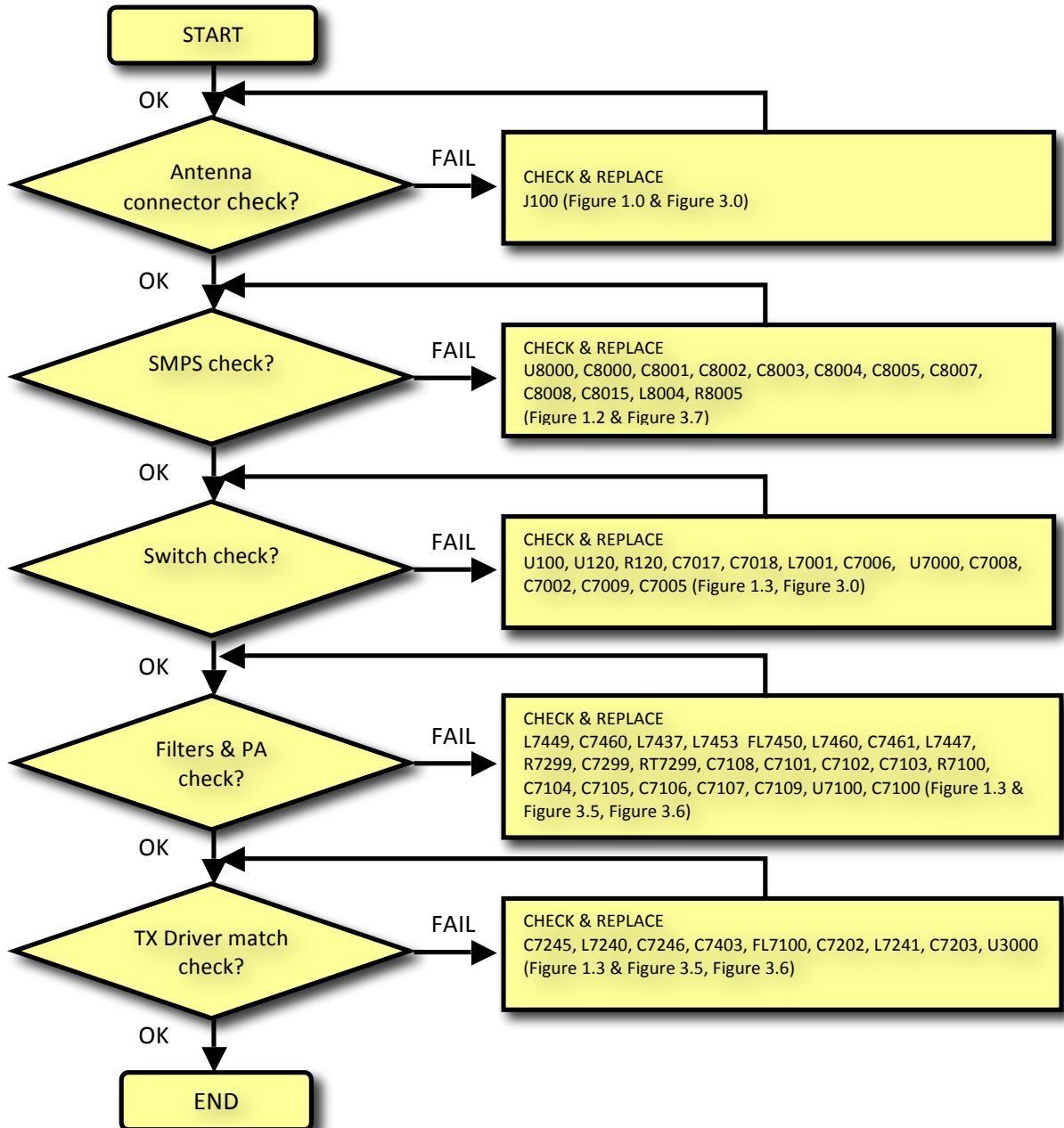
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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide**

**Board Test**

**Band\_28B\_C0\_TX  
Check Chart**



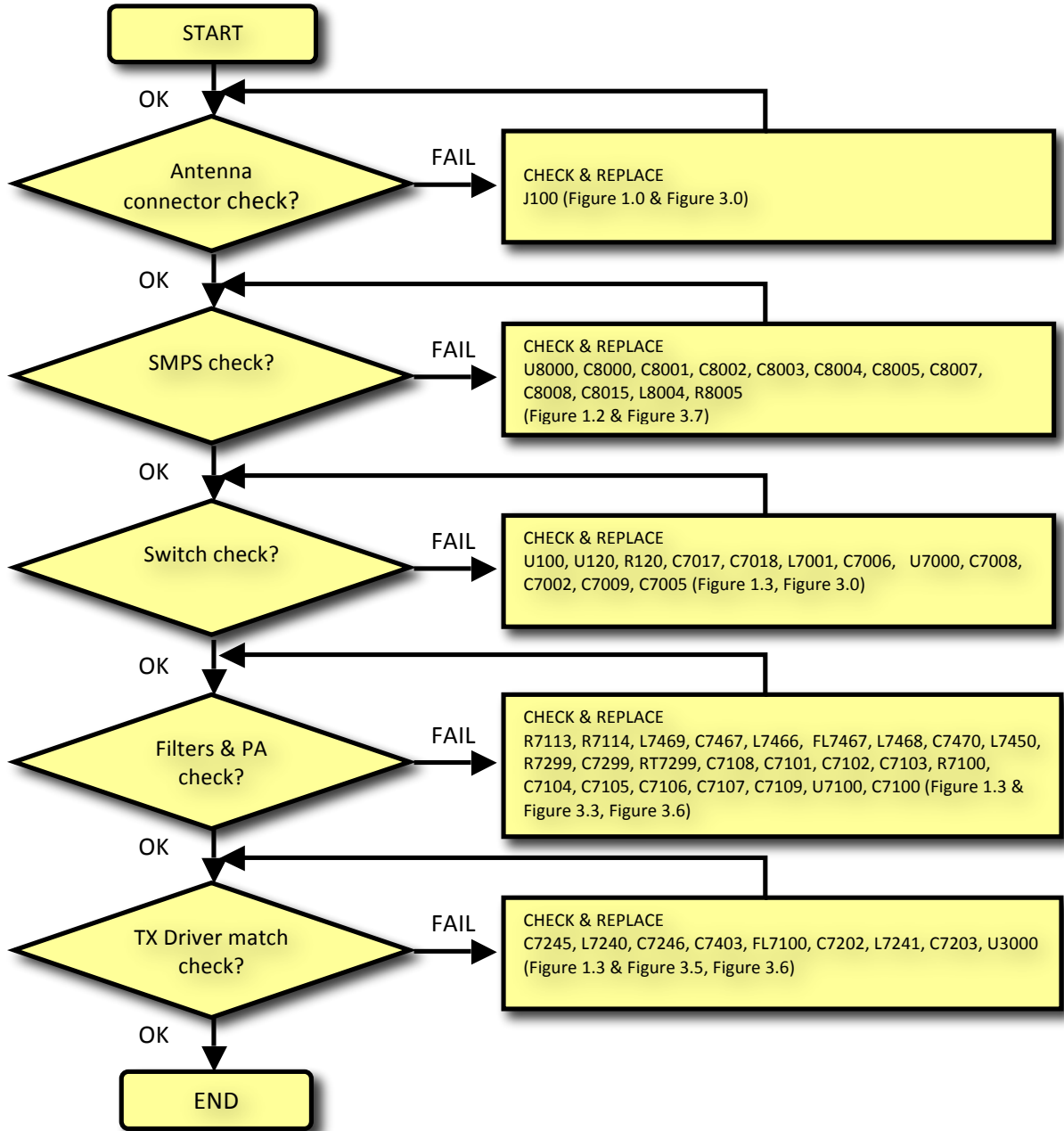
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**Board Test**

**Band\_12\_C0\_TX  
Check Chart**





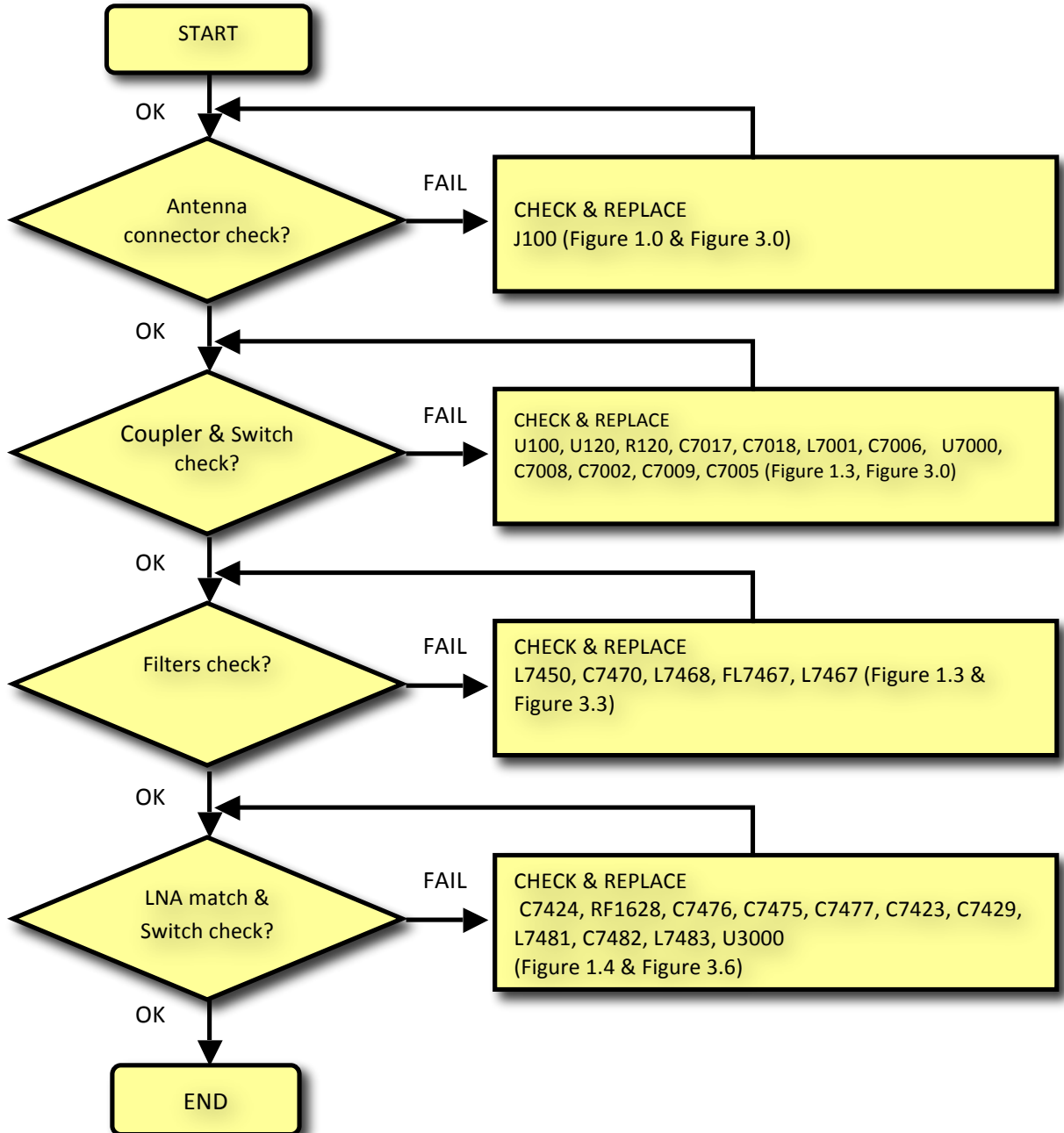
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**Board Test**

**Band\_12\_C0\_RX  
Check Chart**



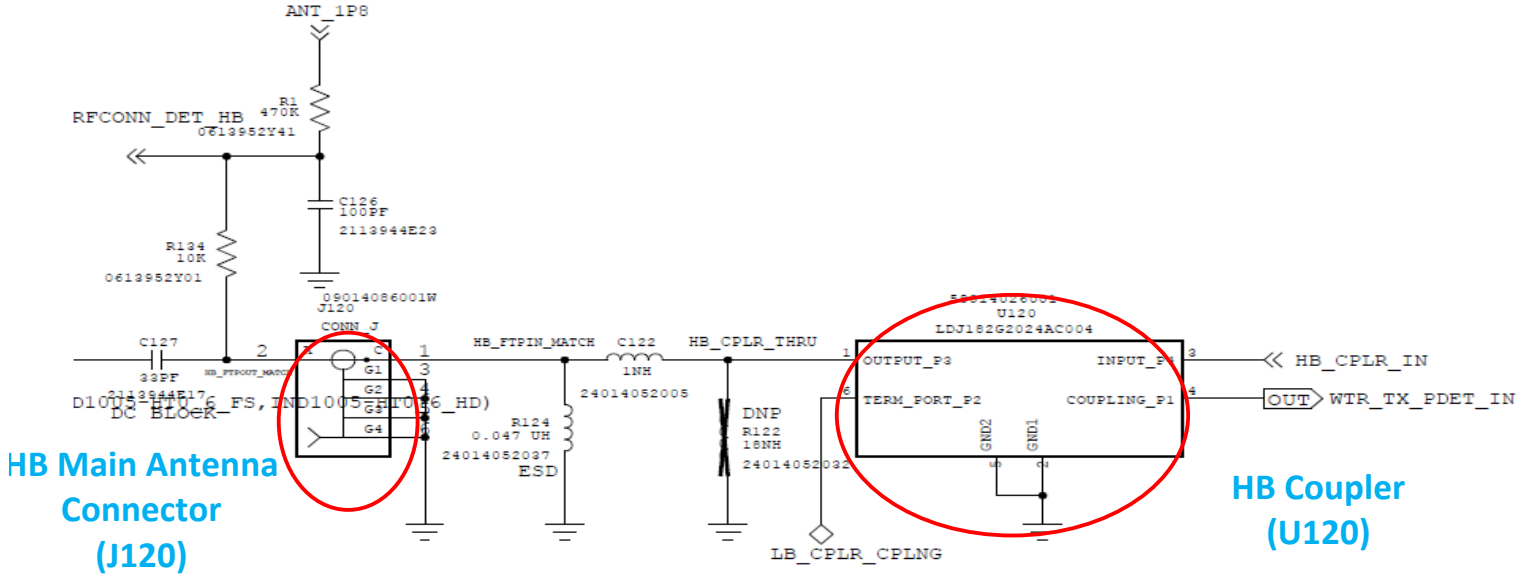
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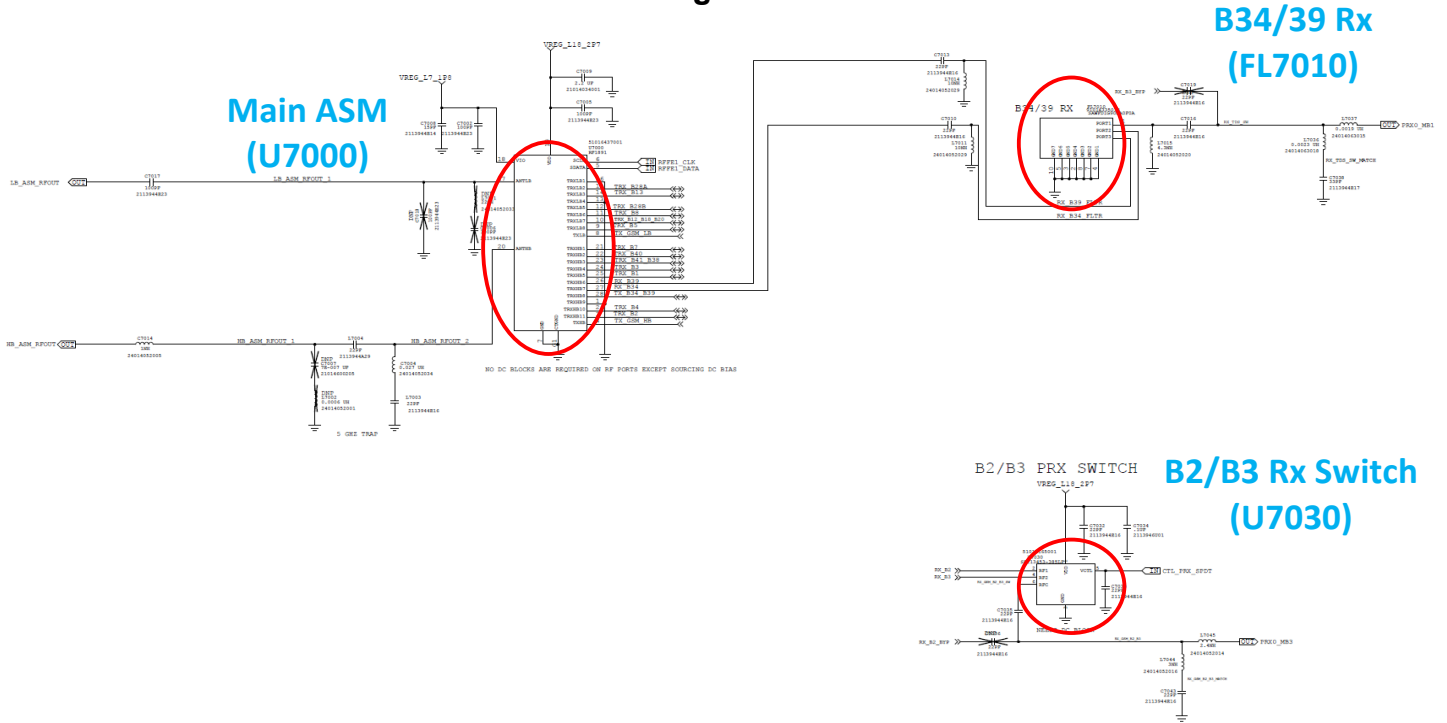
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**HB Main Antenna RF Connector (J120) TROUBLESHOOTING:  
HB Reference Schematics:**



**Figure 4.0**



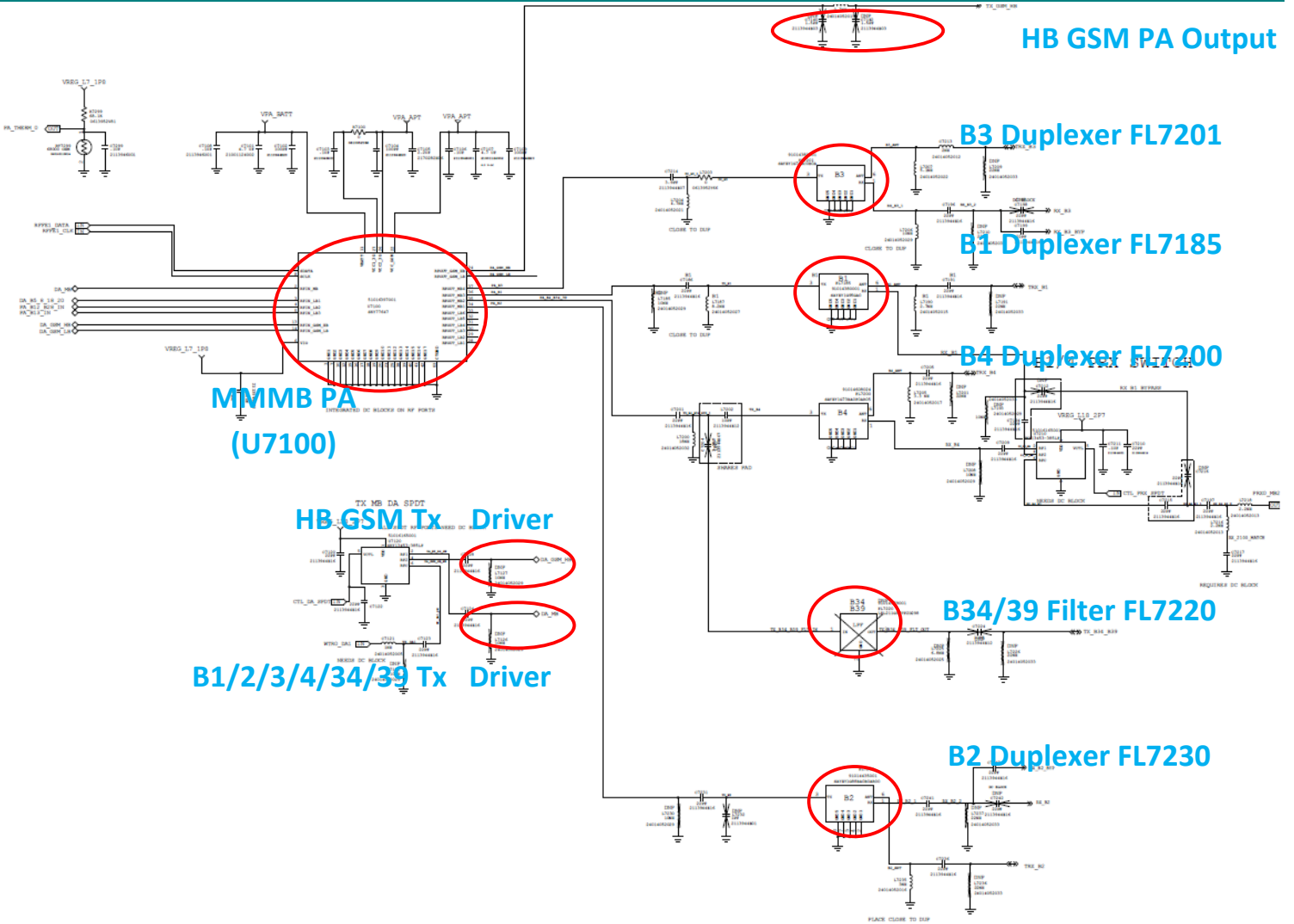
**Figure 4.1**

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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide**

**Board Test**



**Figure 4.2**

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# XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide

## Board Test

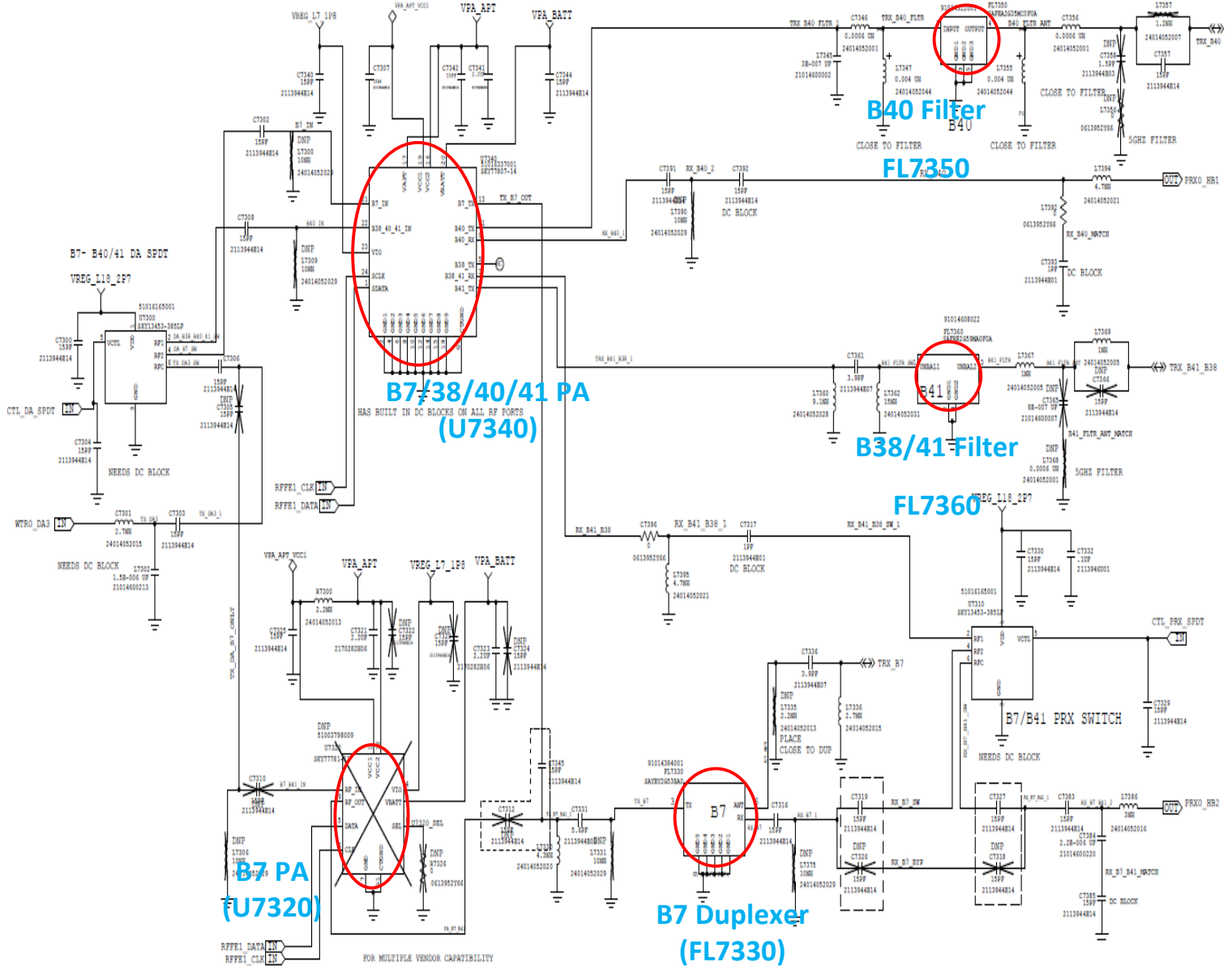


Figure 4.3

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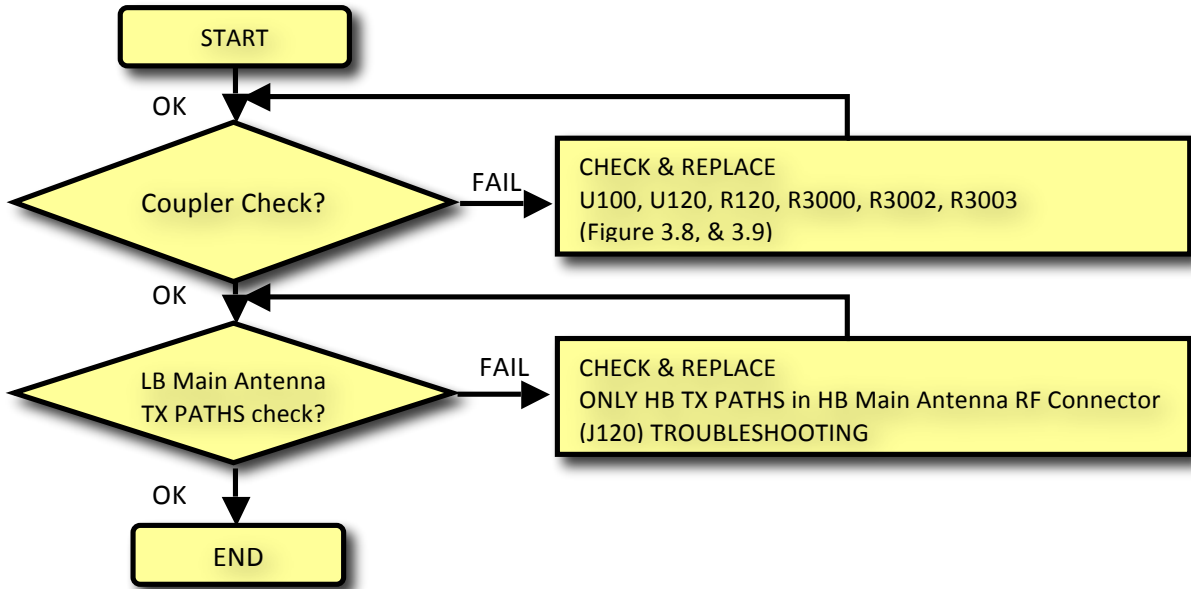
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**HB HDET TROUBLESHOOTING:**

Check Chart:



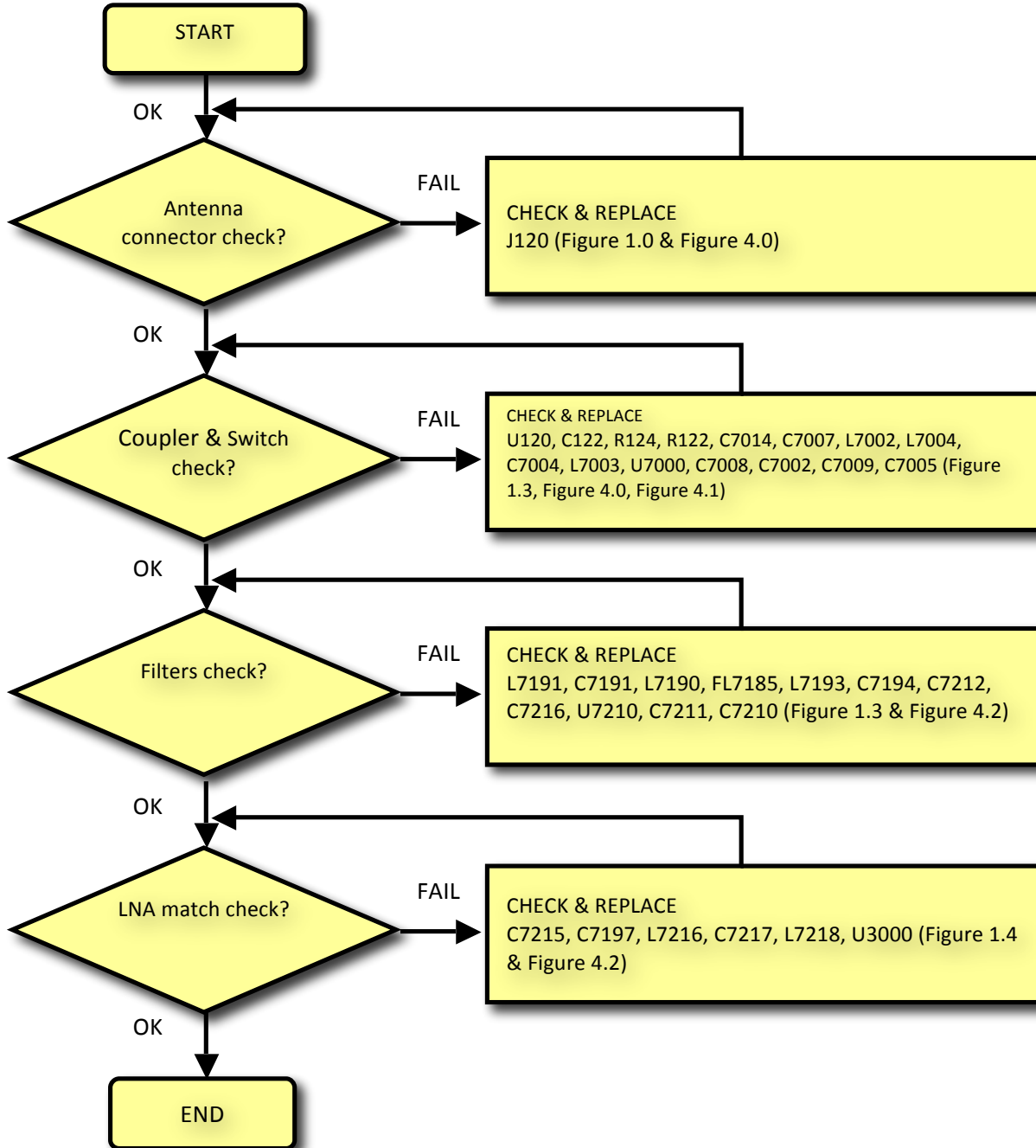
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**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
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**Board Test**

**WCDMA\_2100\_C0\_RX  
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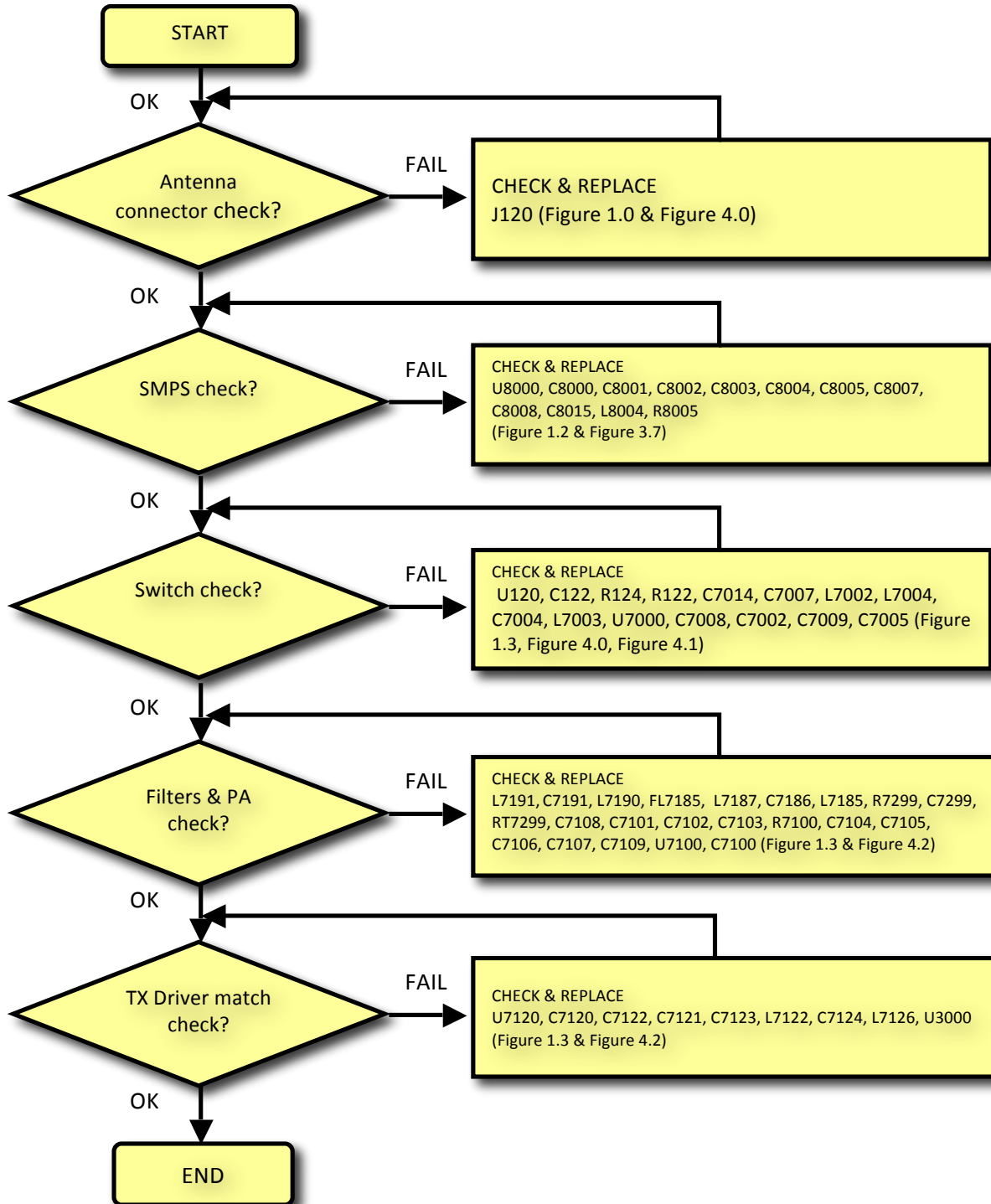
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**Board Test**

**WCDMA\_2100\_C0\_TX**

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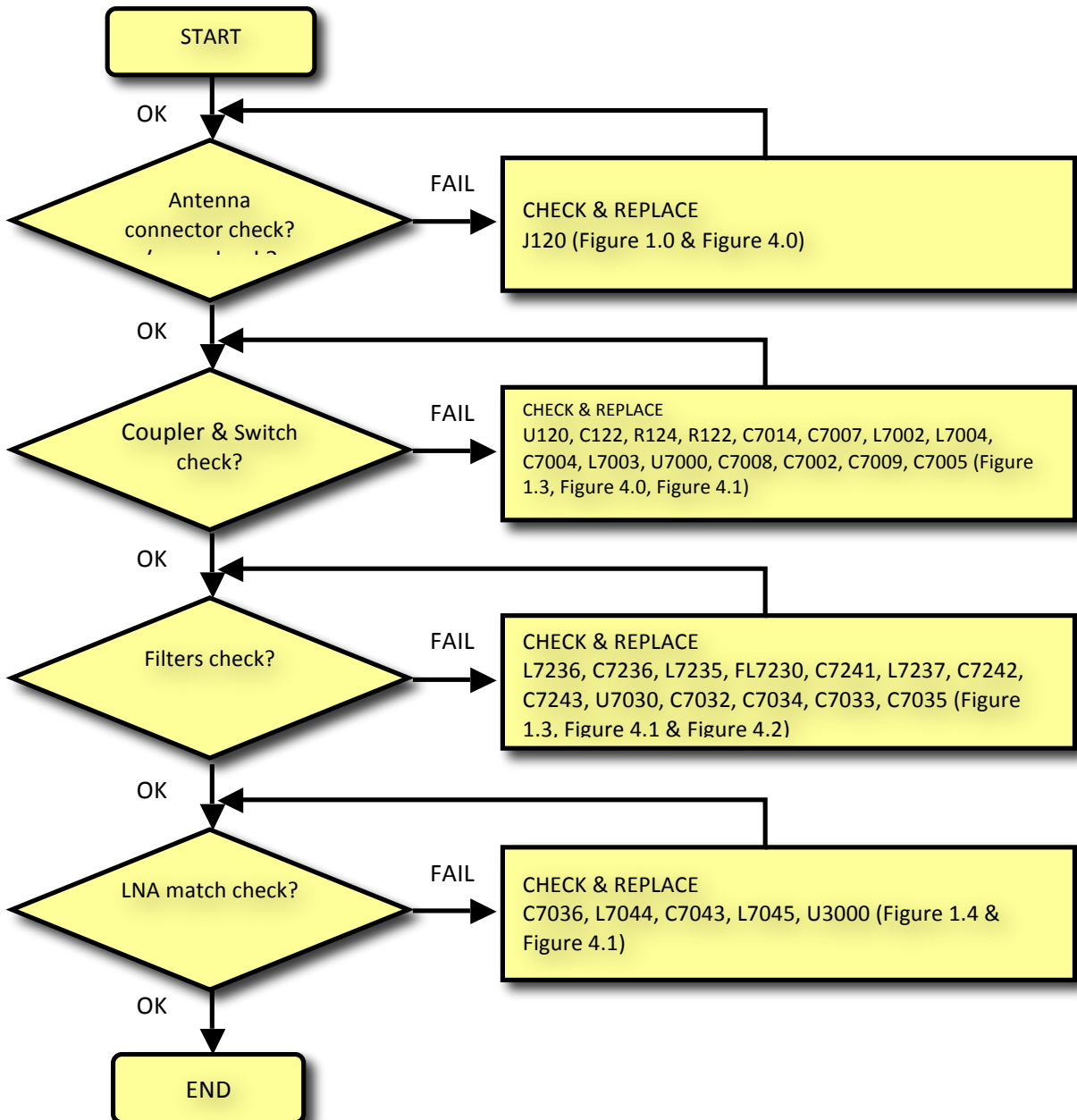
MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide**

**Board Test**

**CDMA\_1900\_C0\_RX, WCDMA\_1900\_C0\_RX & LTE\_Band\_2\_C0\_RX:**

Check Chart:





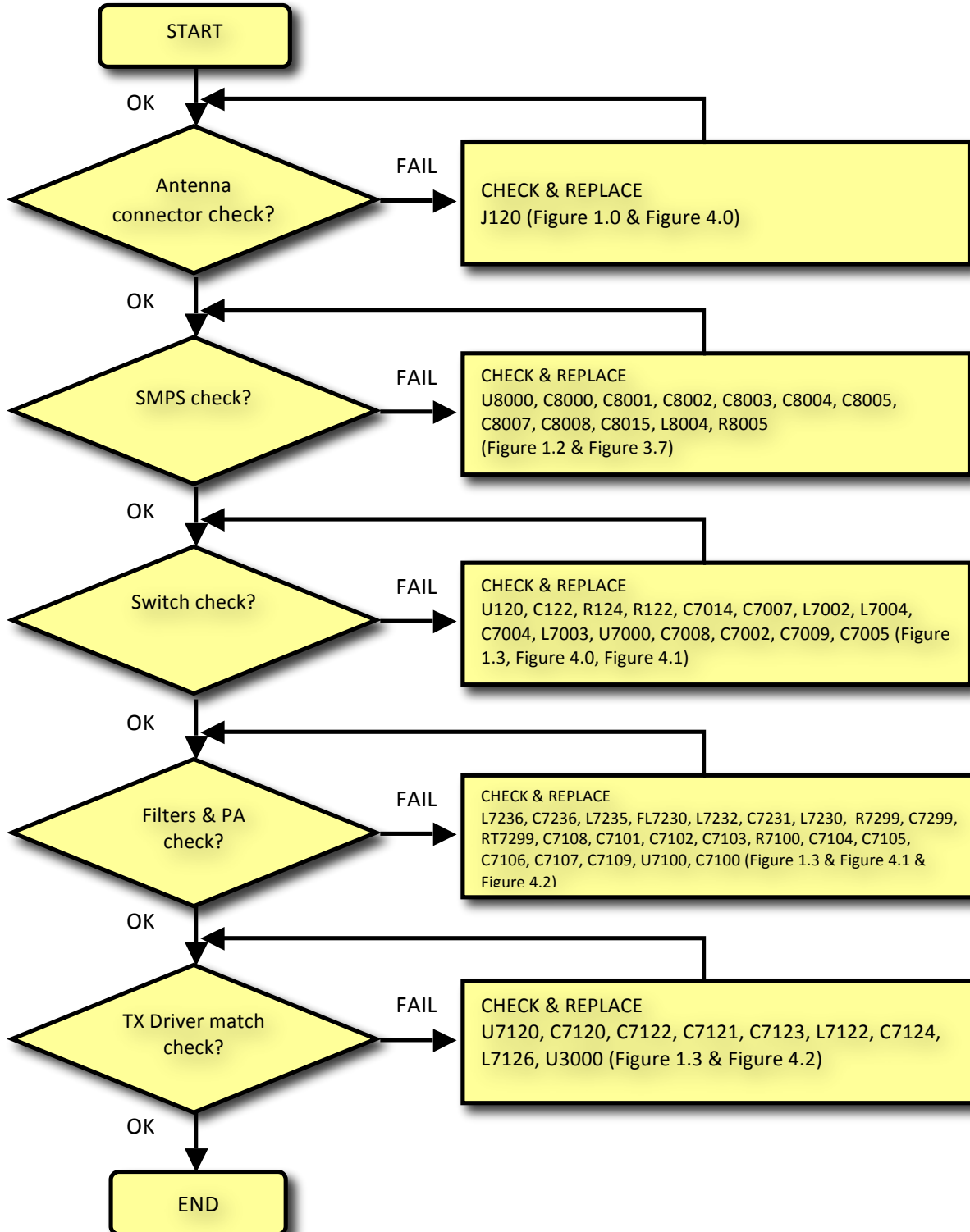
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**CDMA\_1900\_C0\_TX, WCDMA\_1900\_C0\_TX & LTE\_Band\_2\_C0\_TX:**  
Check Chart:



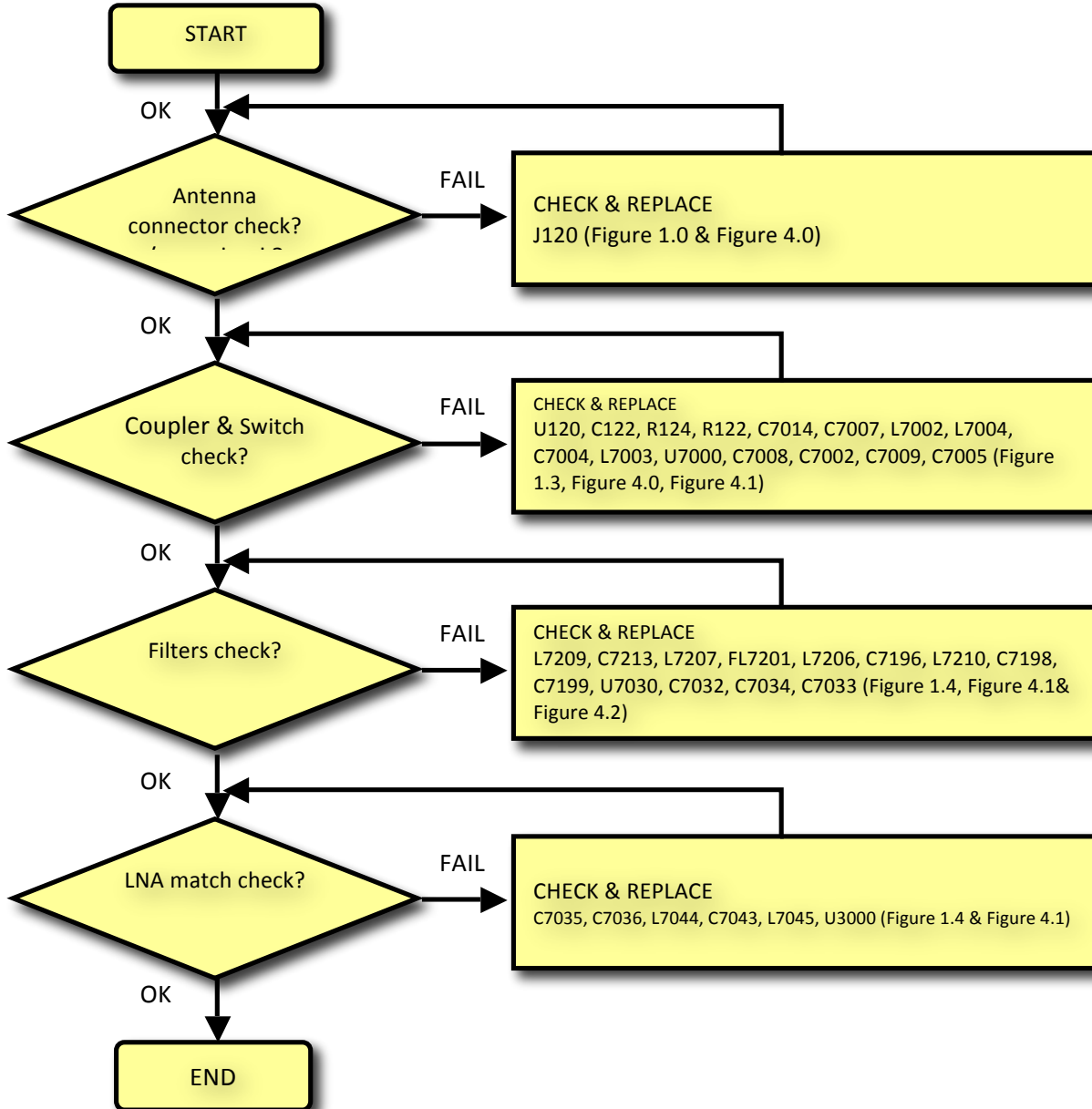
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**GSM\_1800 (CHINA SKU) \_ RX  
Check Chart**



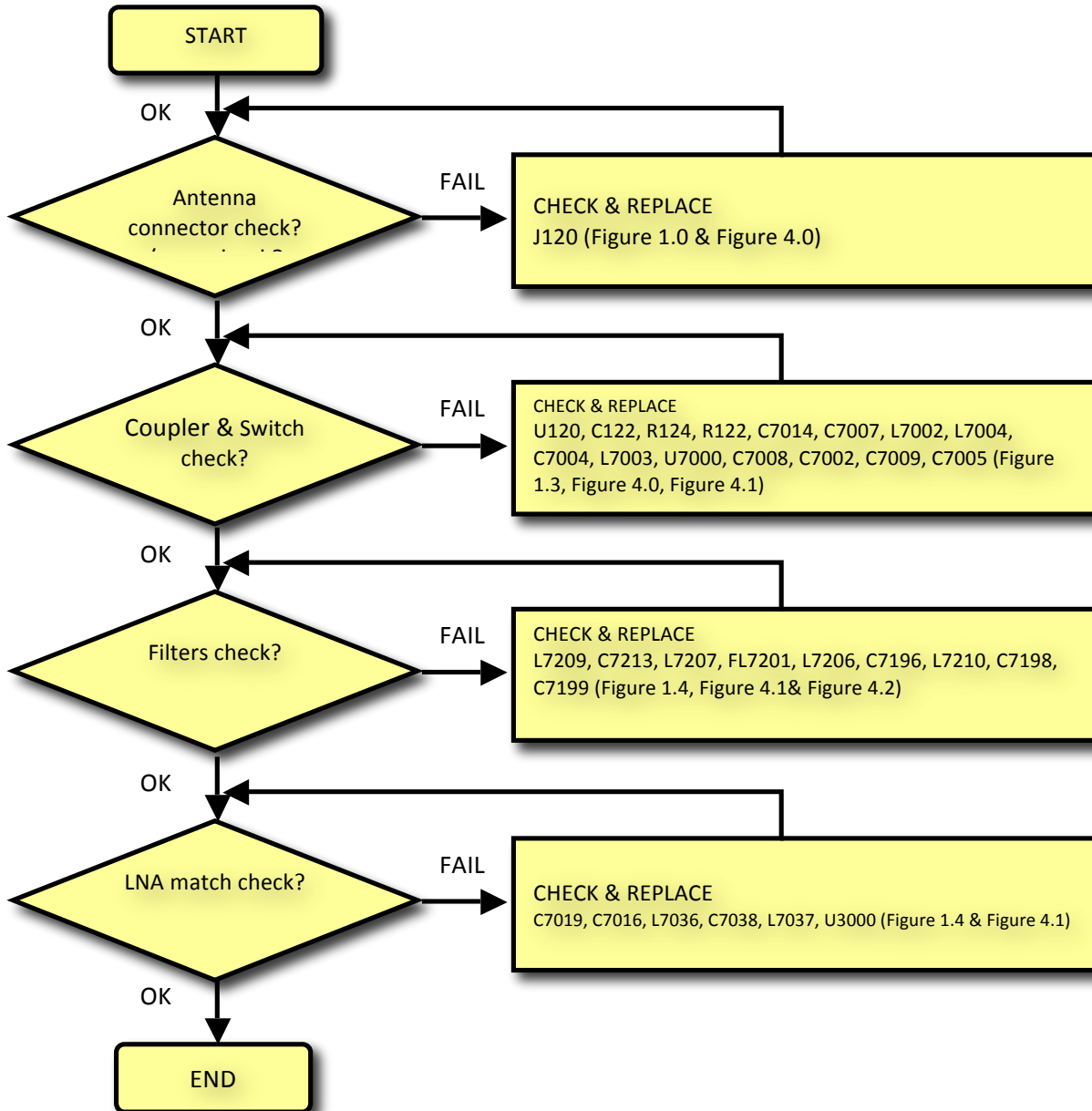
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**GSM\_1800 (OTHER SKUs) \_ RX  
Check Chart**



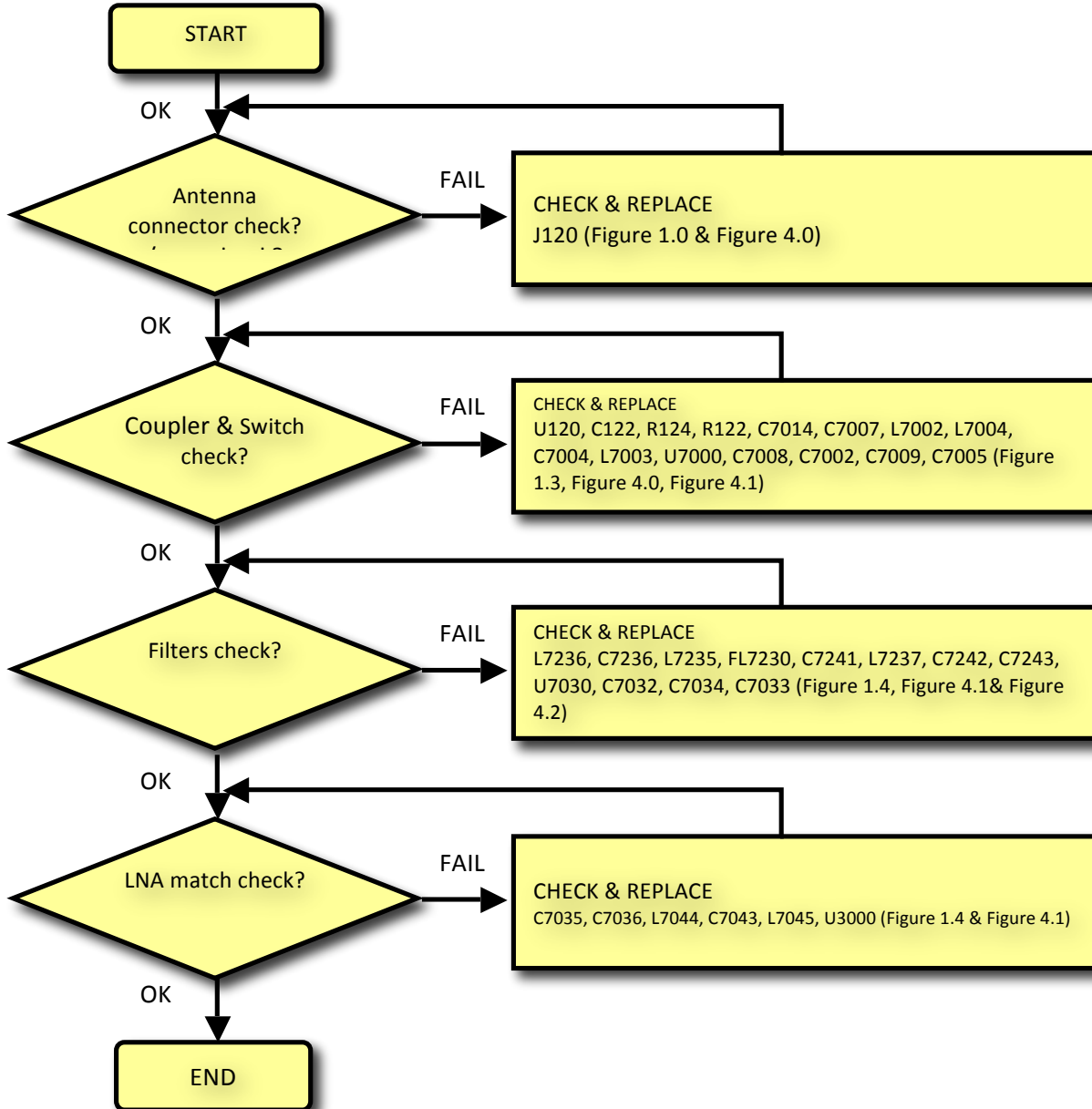
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**GSM\_1900 (CHINA SKU) \_ RX  
Check Chart**



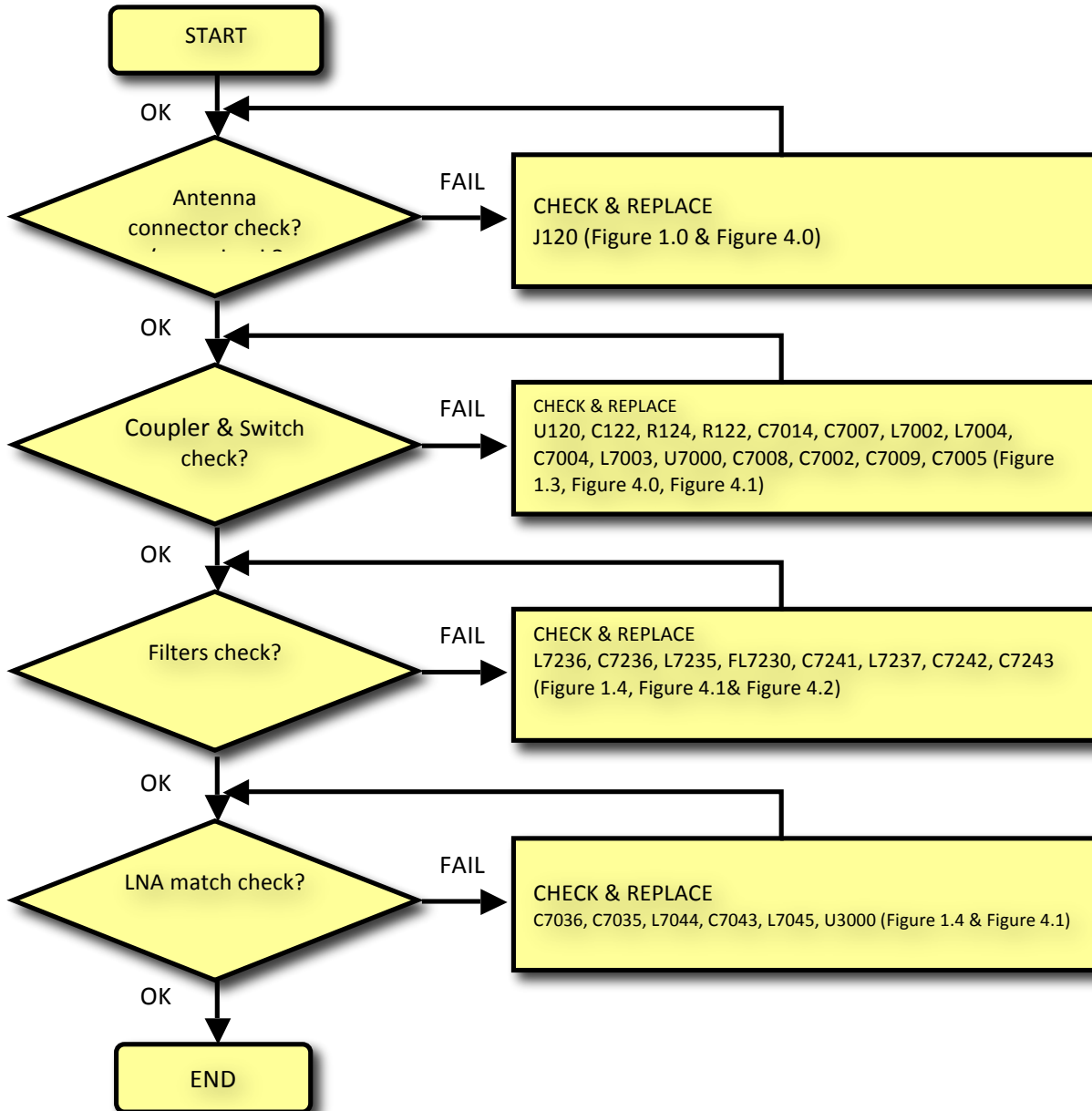
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**GSM\_1900 (OTHER SKUs) \_ RX  
Check Chart**



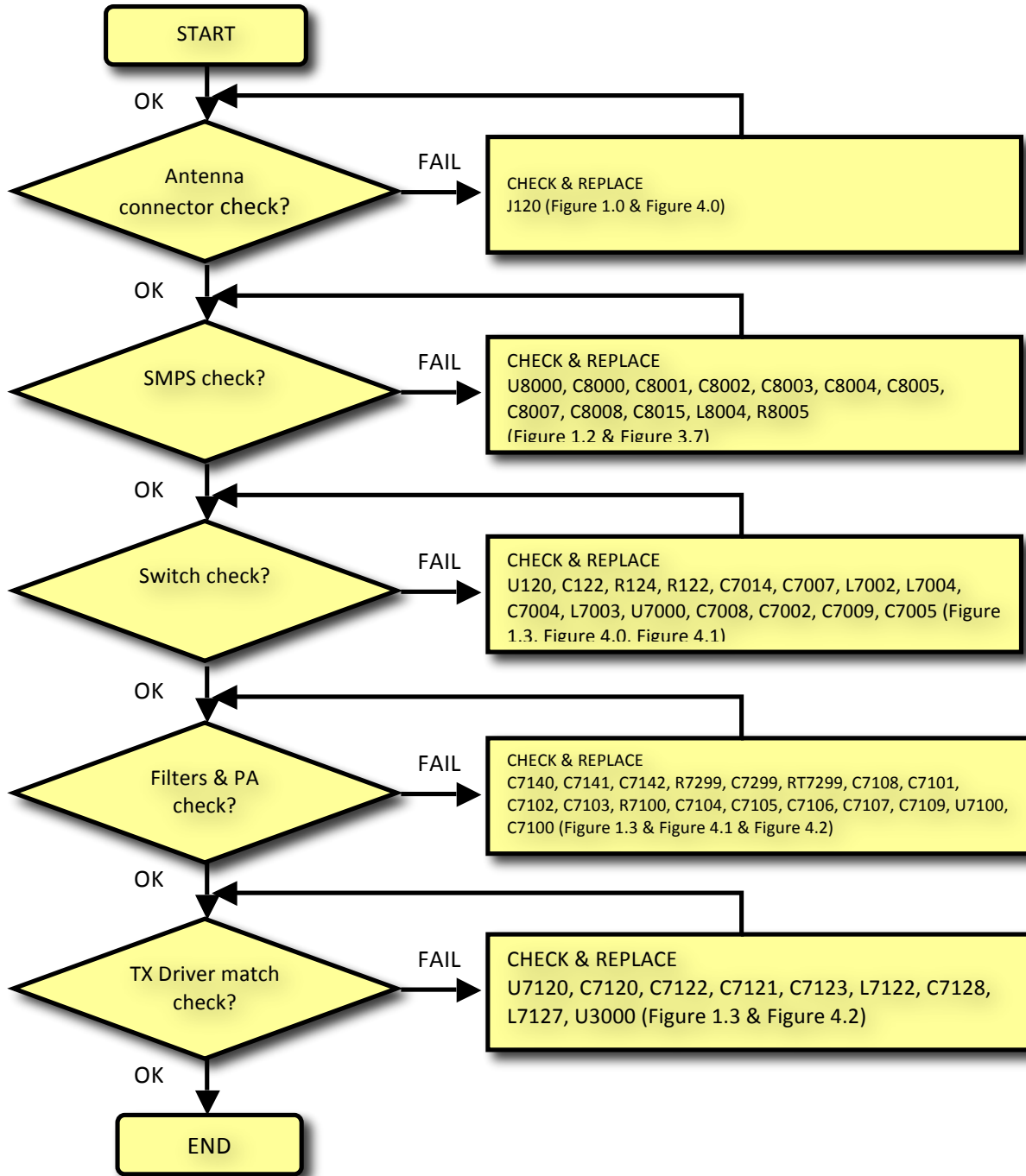
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**GSM\_1800\_TX, EDGE\_1800\_TX, GSM\_1900\_TX, & EDGE\_1900\_TX  
Check Chart**



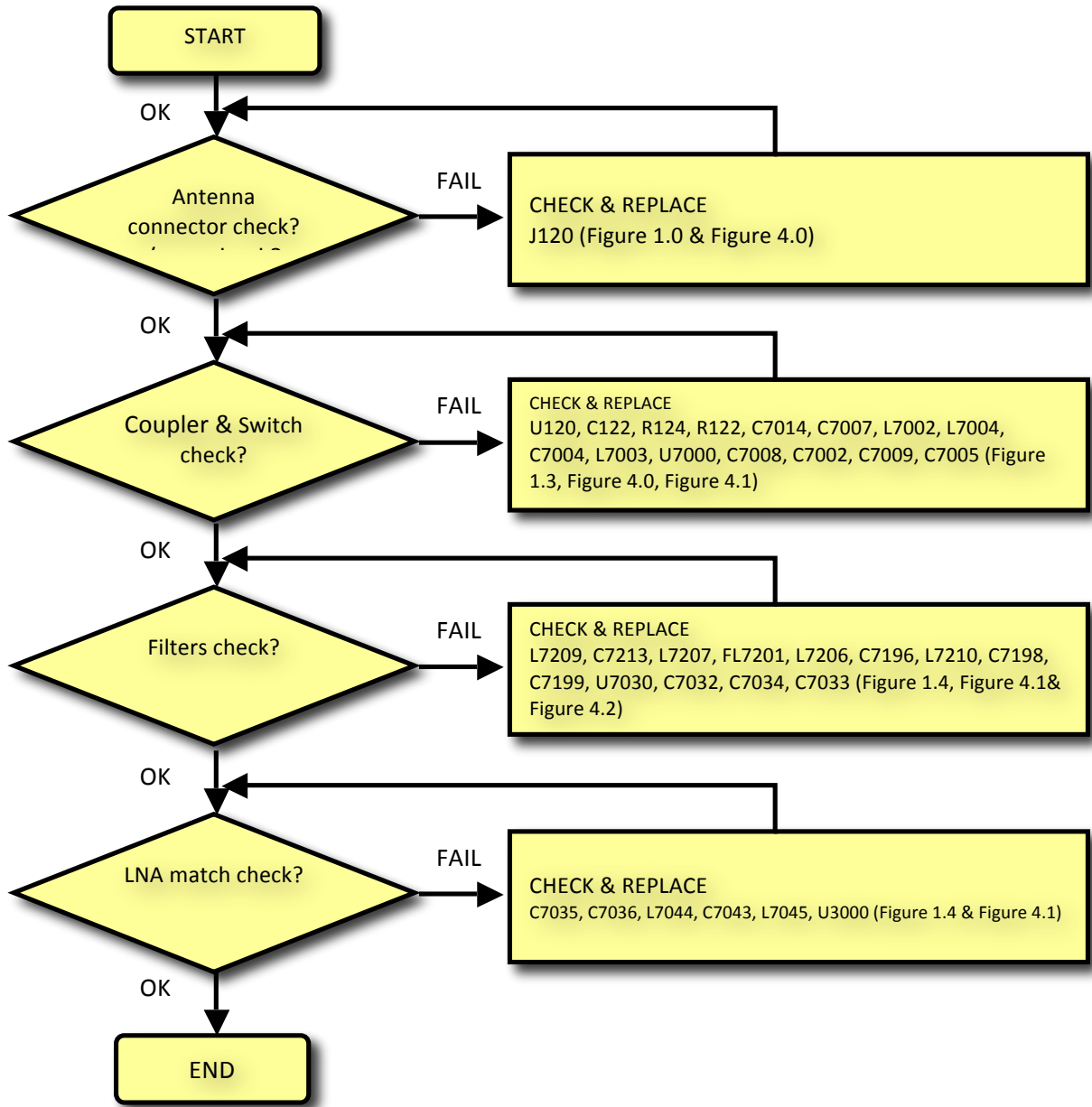
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**LTE\_Band\_3\_C0\_RX (CHINA SKU)  
Check Chart**



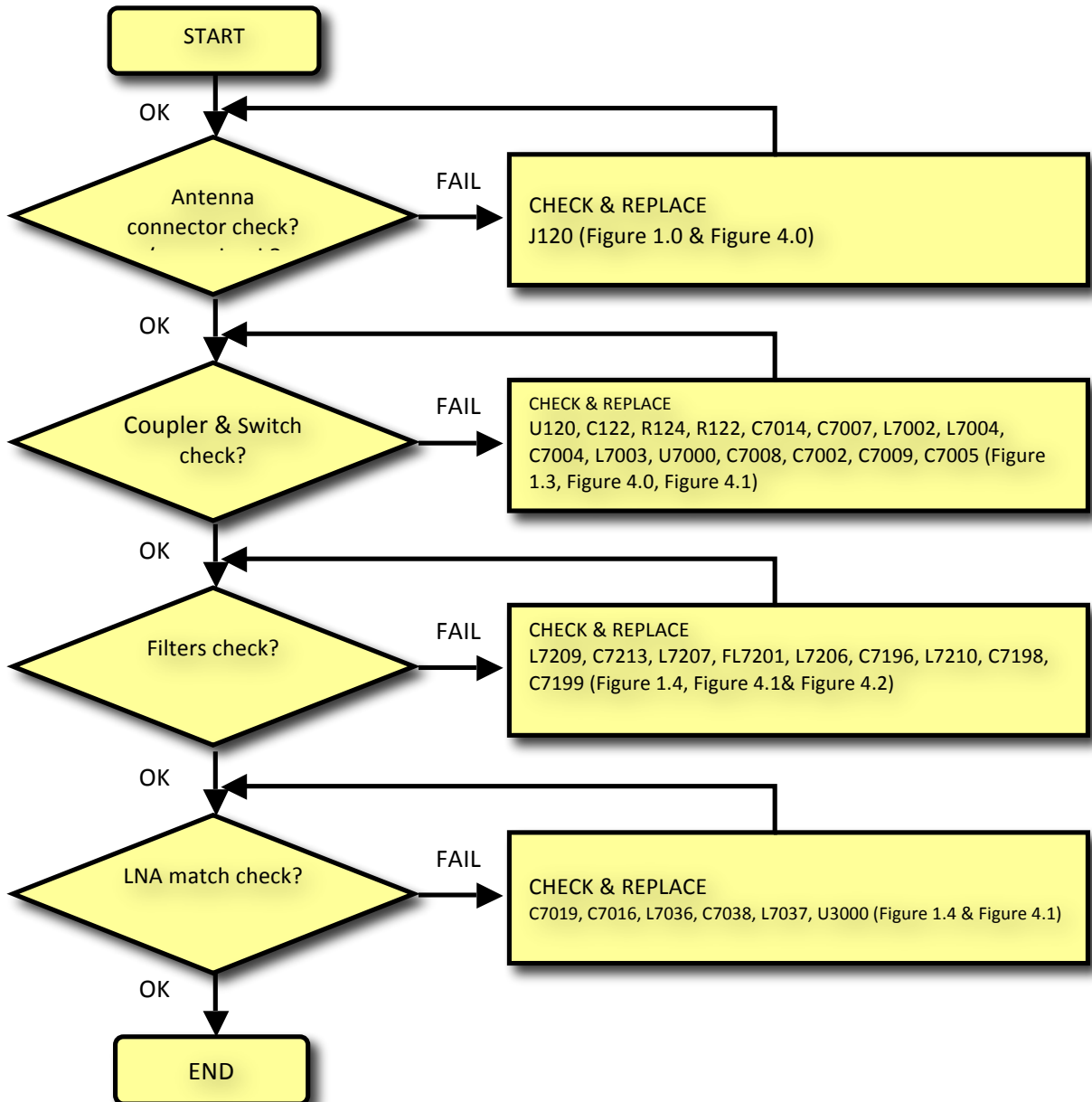
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**LTE\_Band\_3\_C0\_RX (OTHER SKUs)  
Check Chart**





TITLE

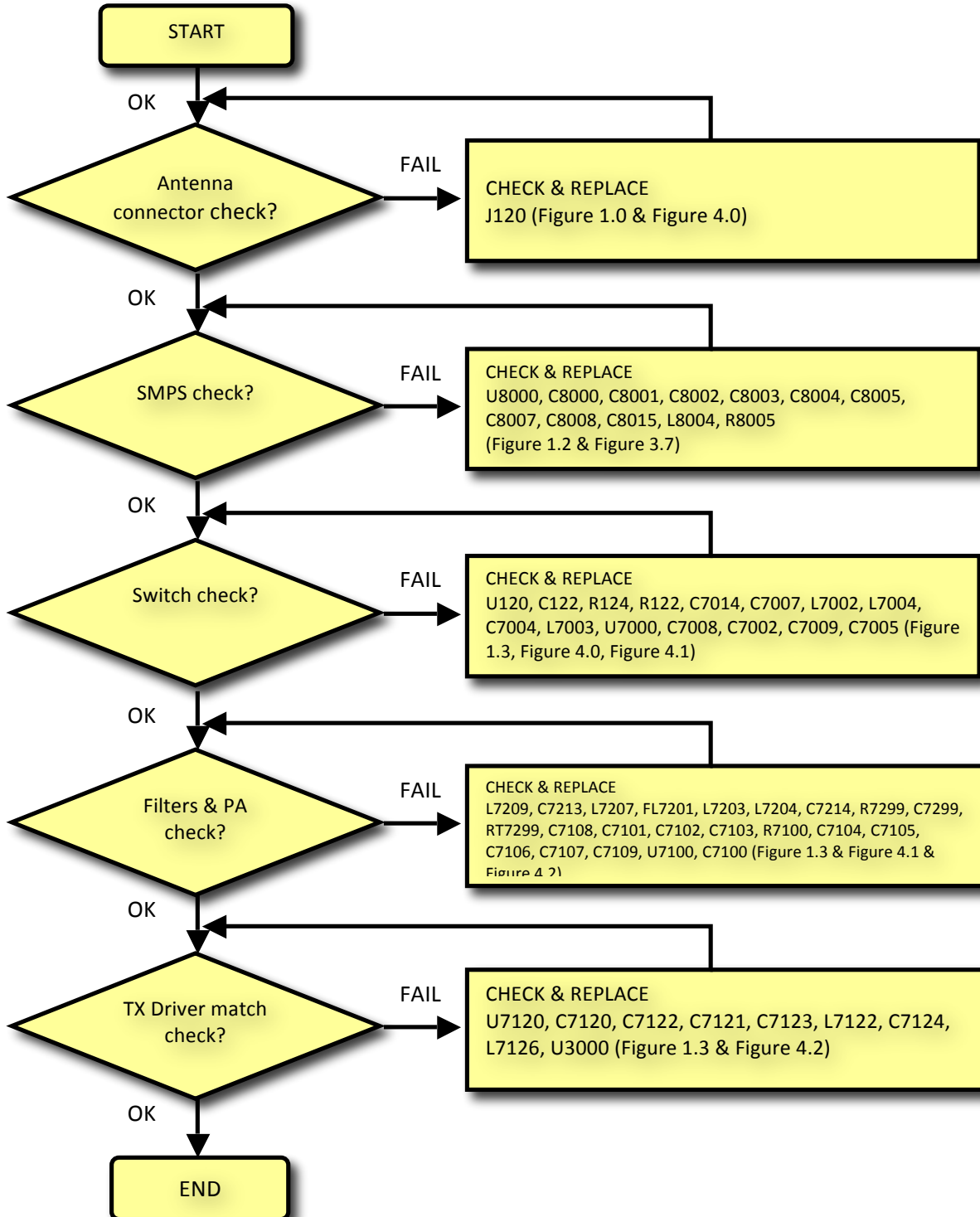
MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**LTE\_Band\_3\_C0\_TX**

Check Chart



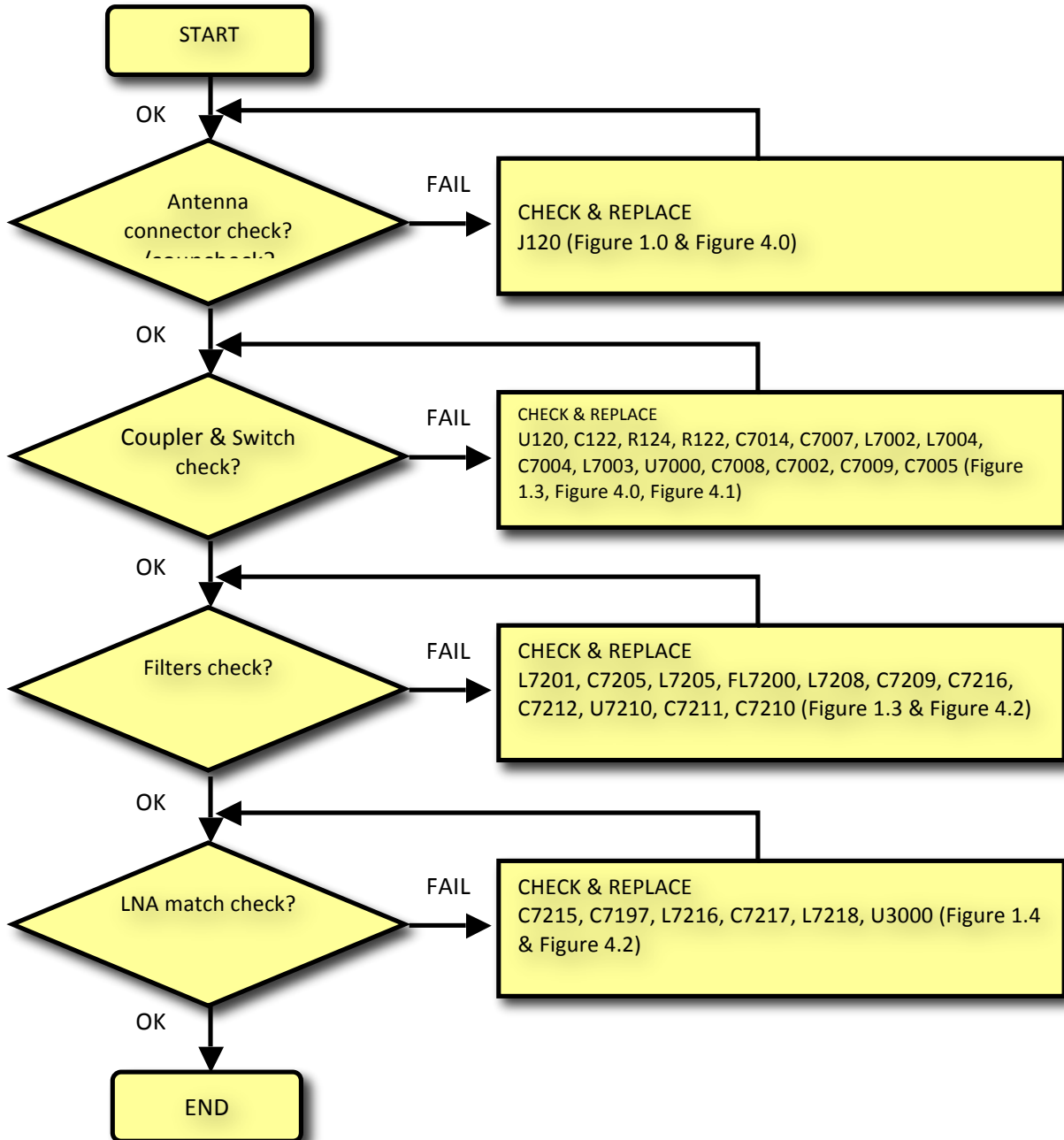
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**WCDMA\_1700\_C0\_RX & LTE\_Band\_4\_C0\_RX  
Check Chart**



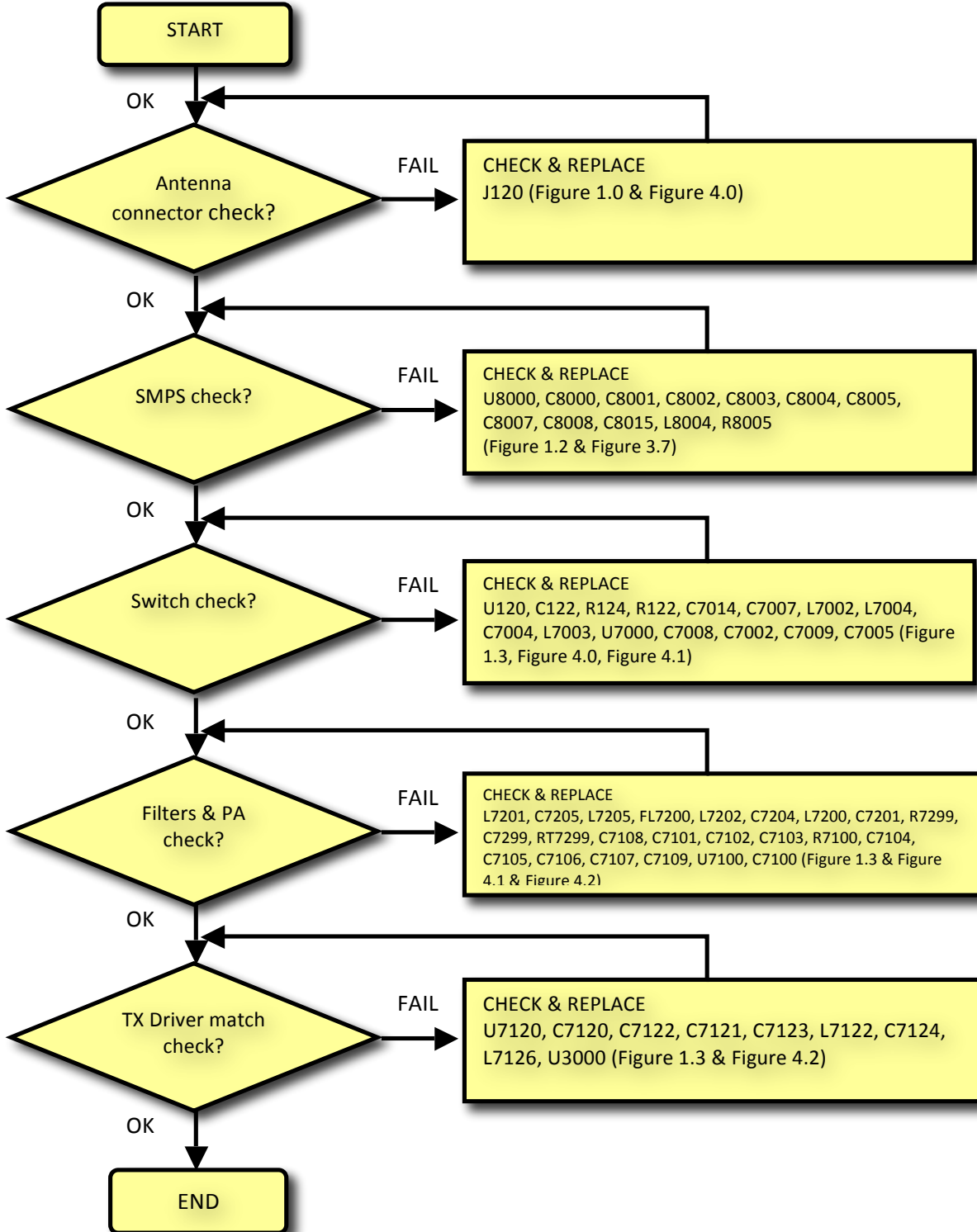
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**WCDMA\_1700\_C0\_TX & LTE\_Band\_4\_C0\_TX  
Check Chart**



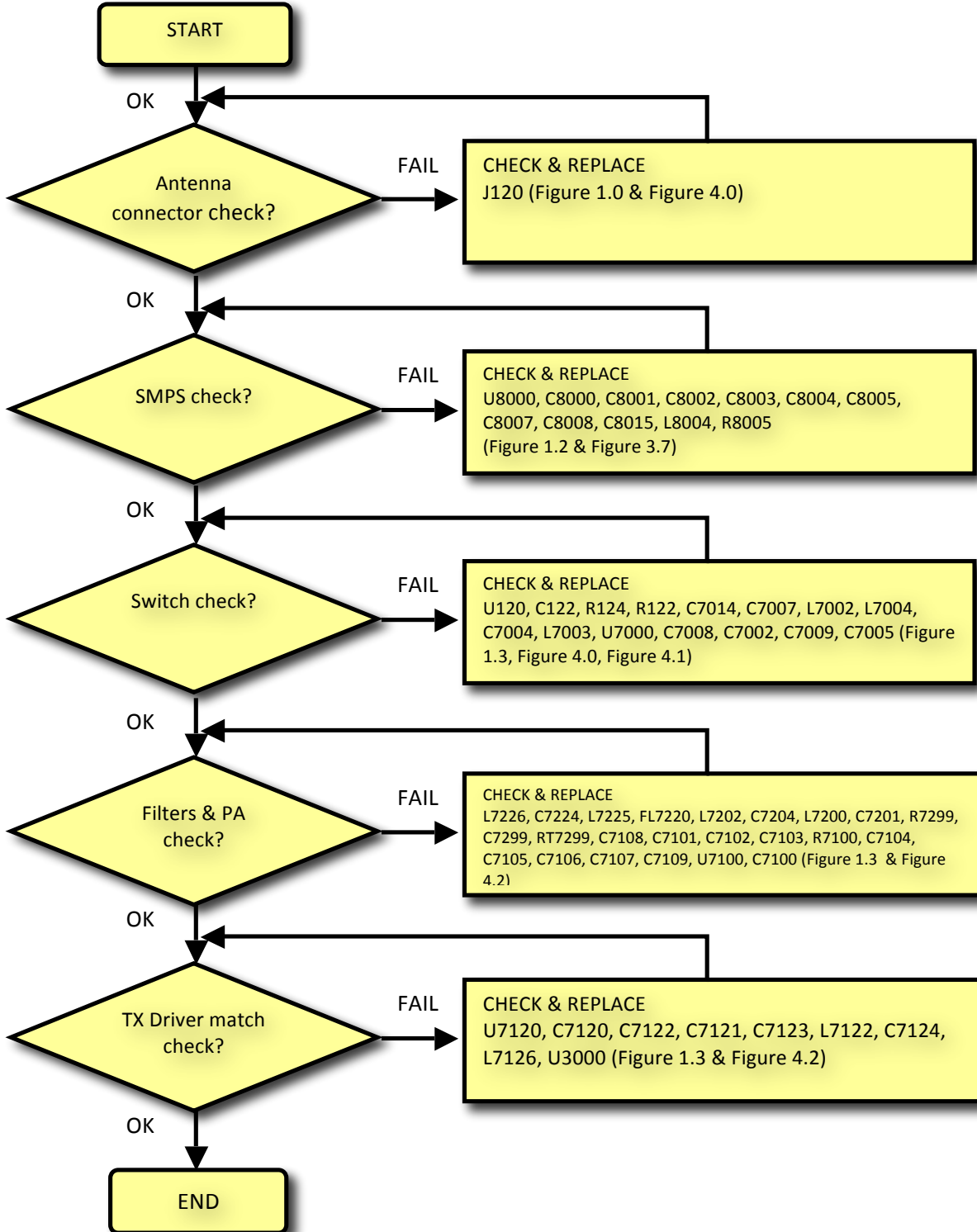
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**LTE\_B34/39\_C0\_TX  
Check Chart**



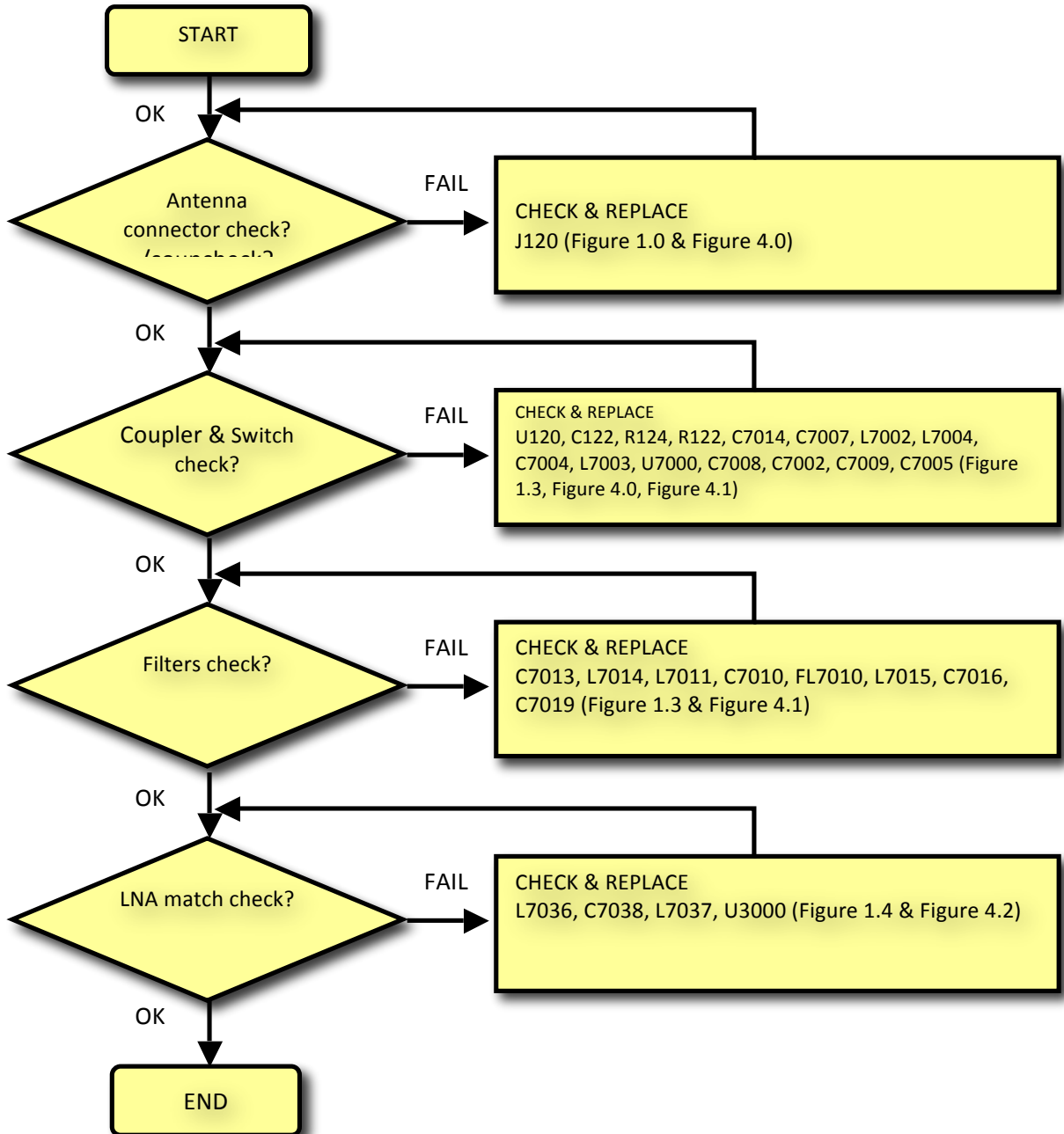
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**LTE\_B34/39\_C0\_RX  
Check Chart**



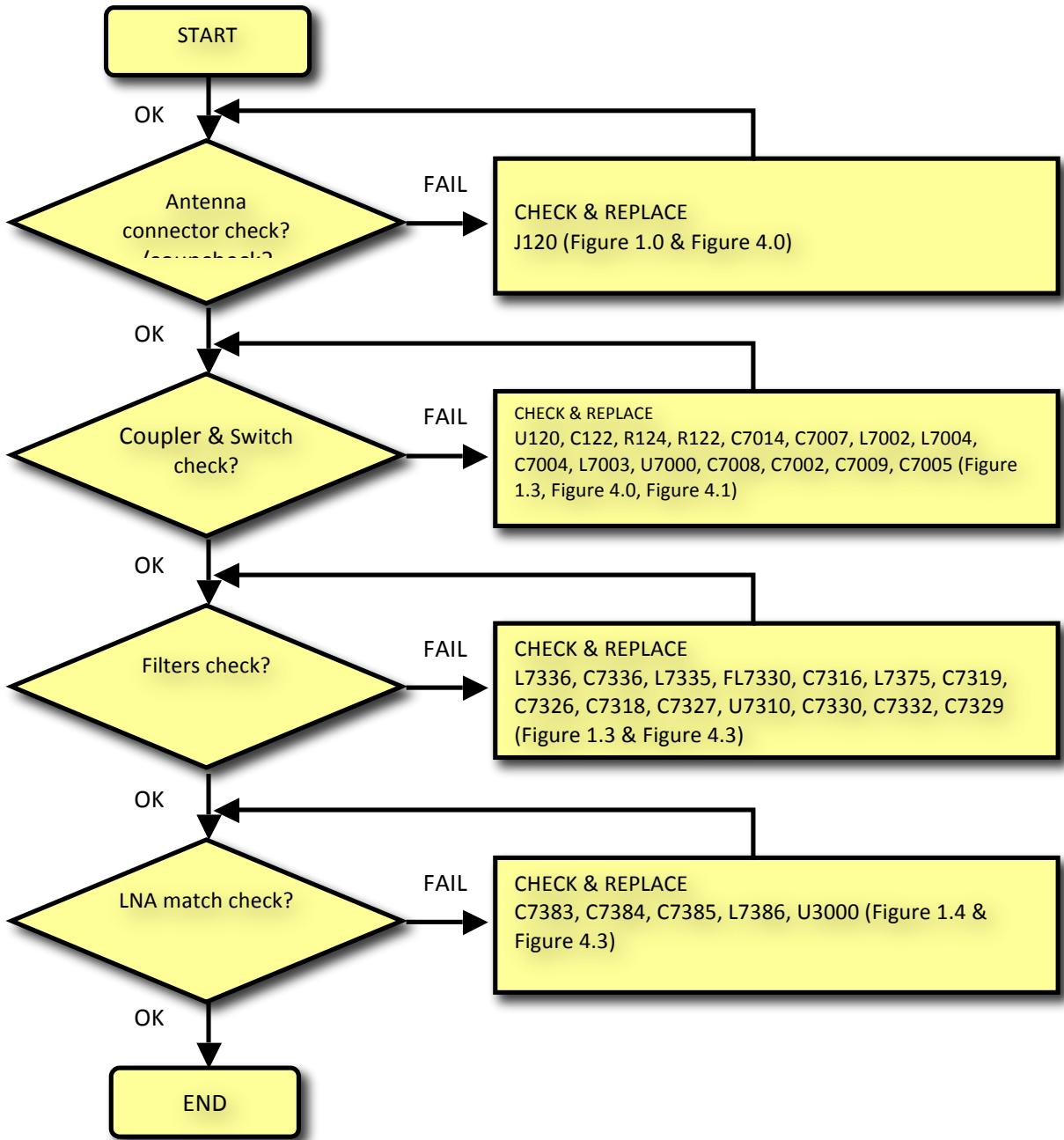
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**LTE\_Band\_7\_C0\_RX  
Check Chart**



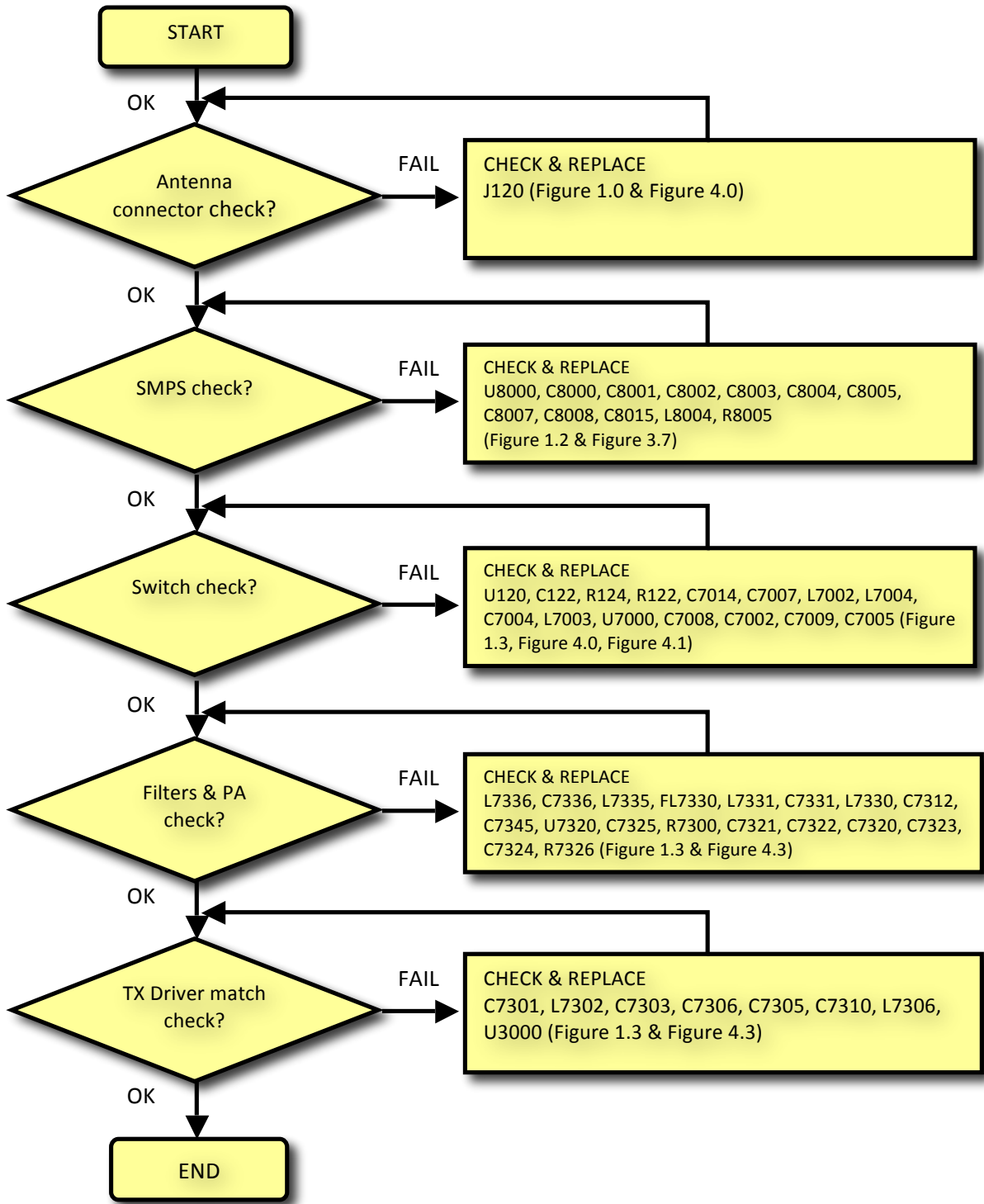
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide**

**Board Test**

**LTE\_Band\_7\_C0\_TX (Verizon and LatAm SKUs)**



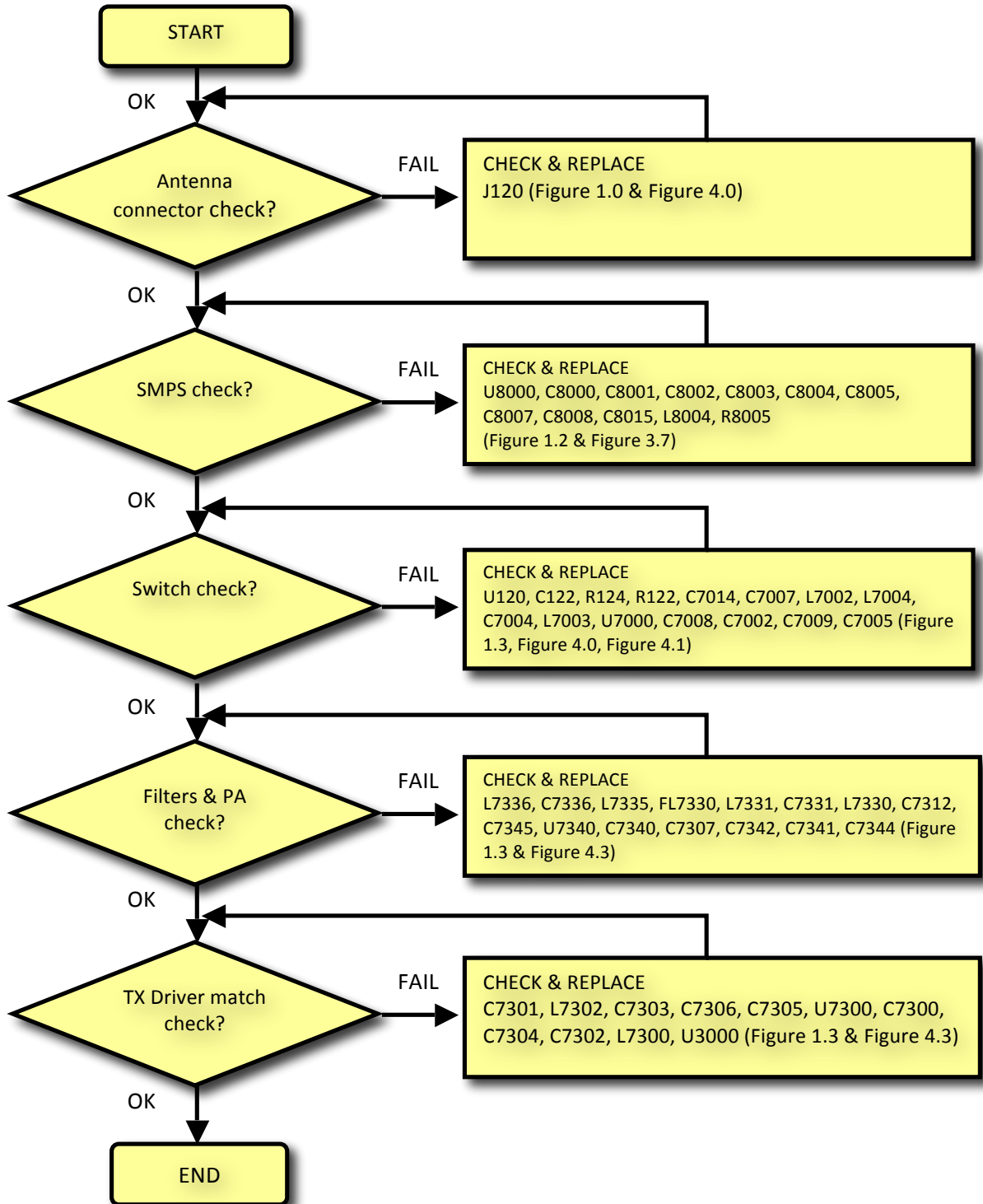
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**LTE\_Band\_7\_C0\_TX (ROW and CHINA SKUs)**





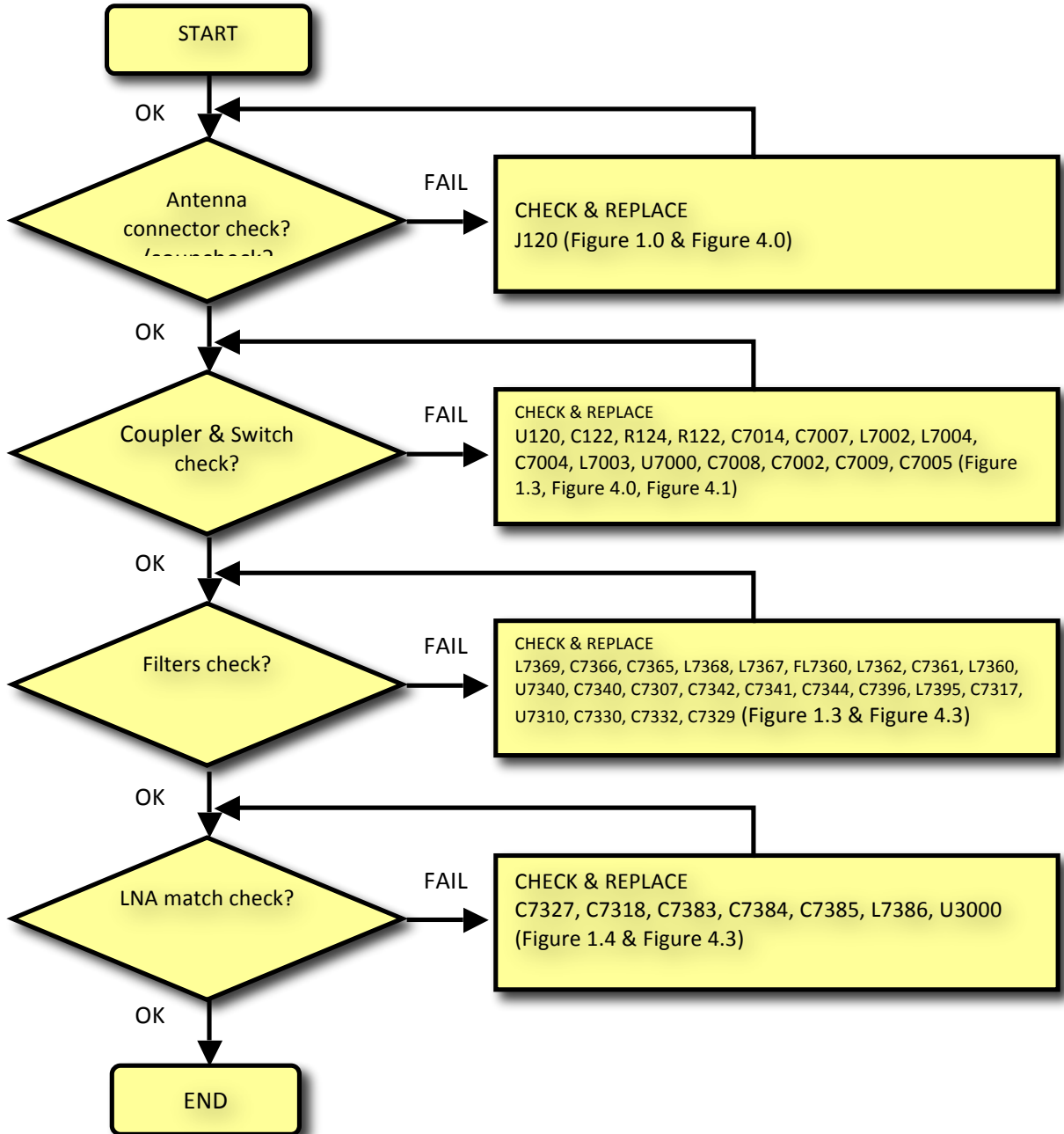
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**LTE\_Band\_41\_38\_C0\_RX  
Check Chart**



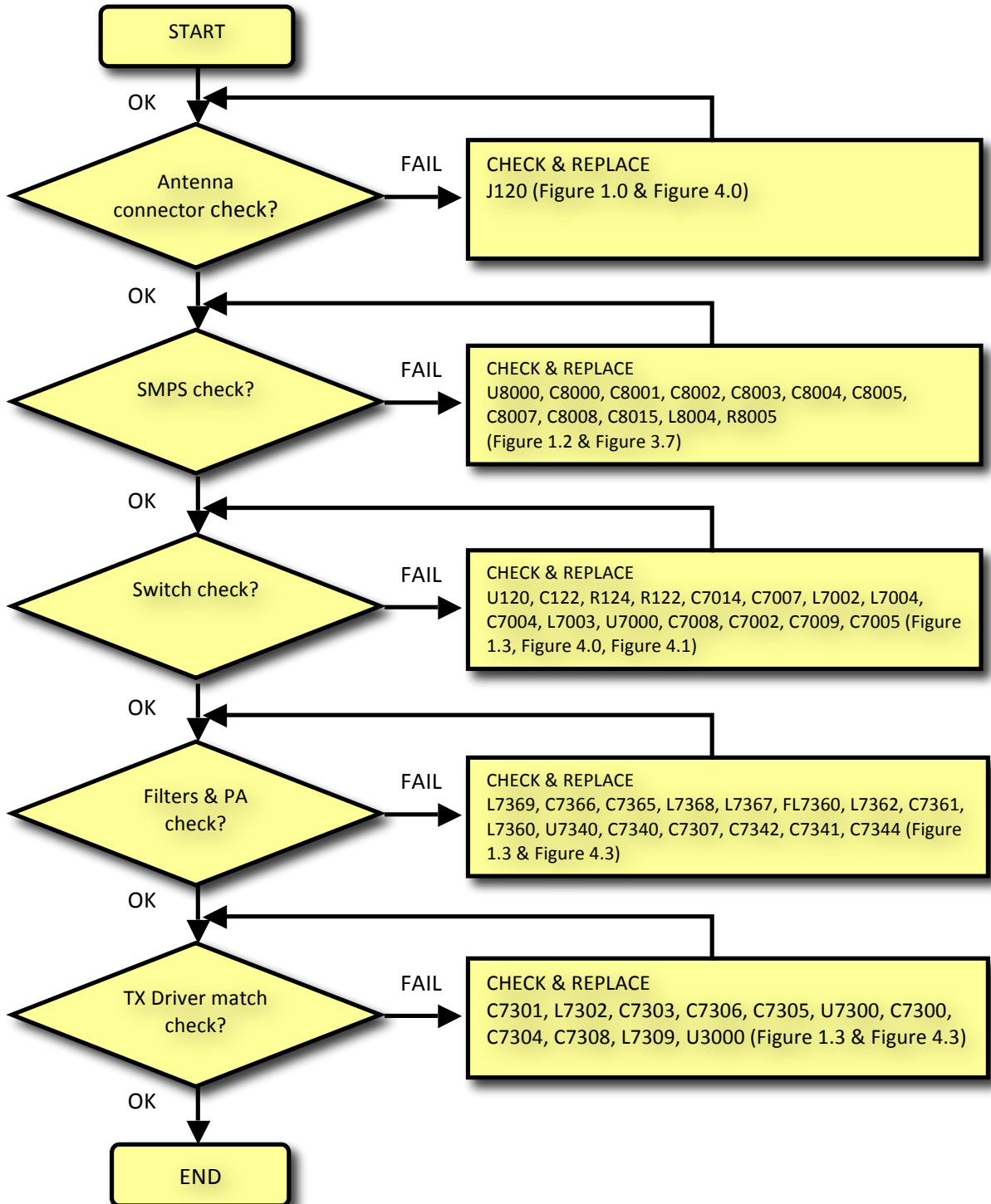
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**LTE\_Band\_41\_38\_C0\_TX  
Check Chart**



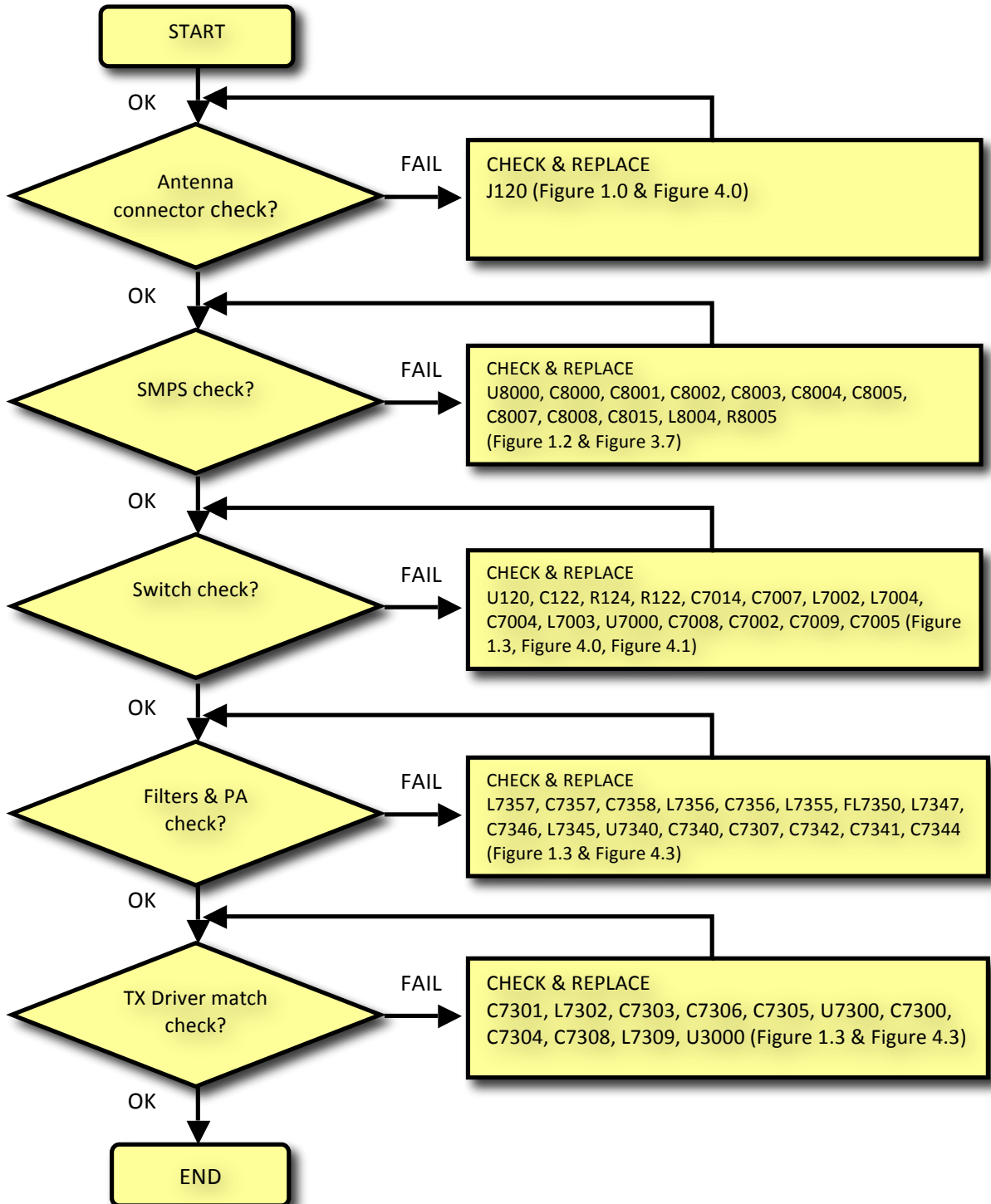
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**LTE\_Band\_40\_C0\_TX  
Check Chart**



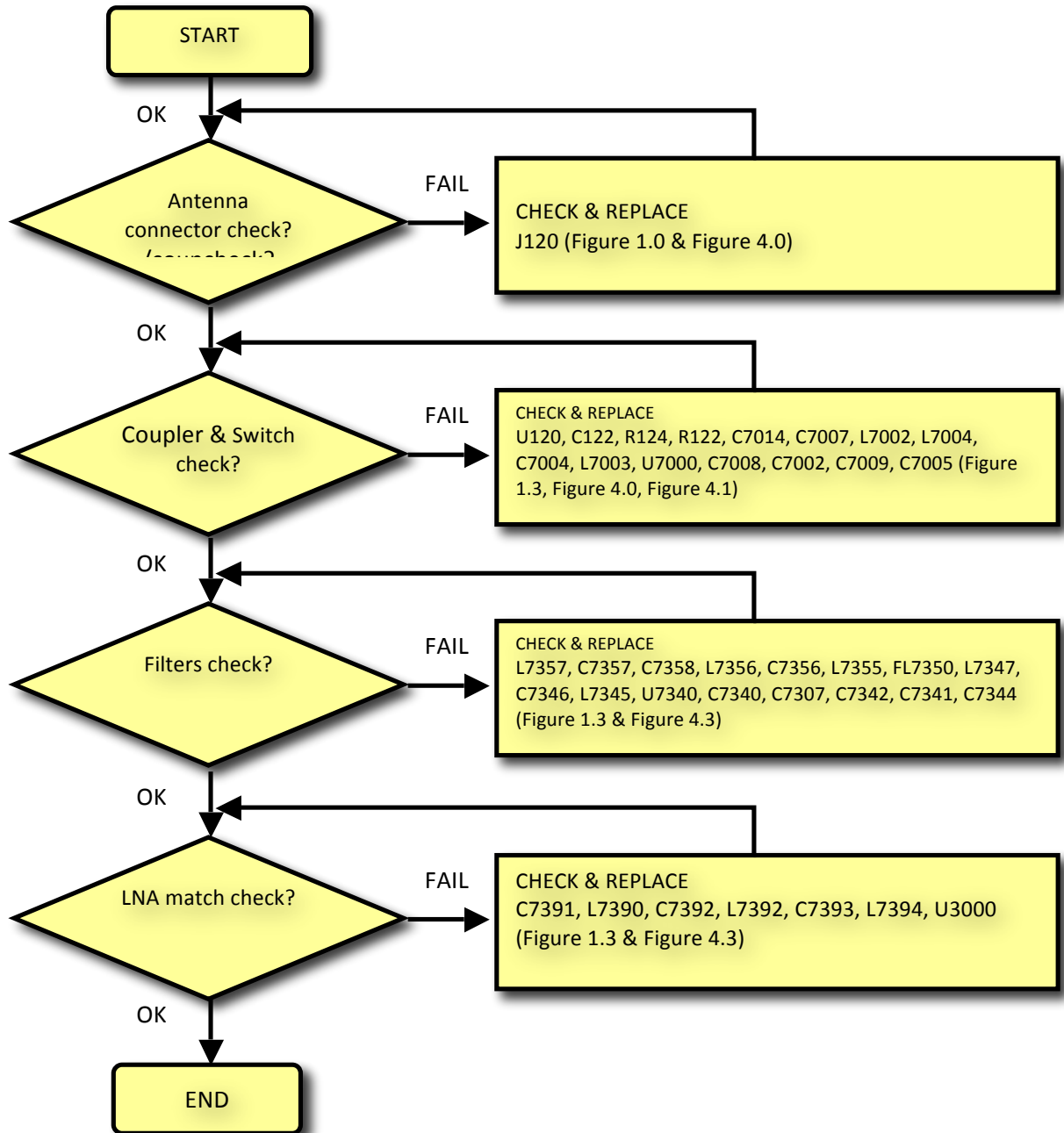
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**LTE\_Band\_40\_C0\_RX  
Check Chart**



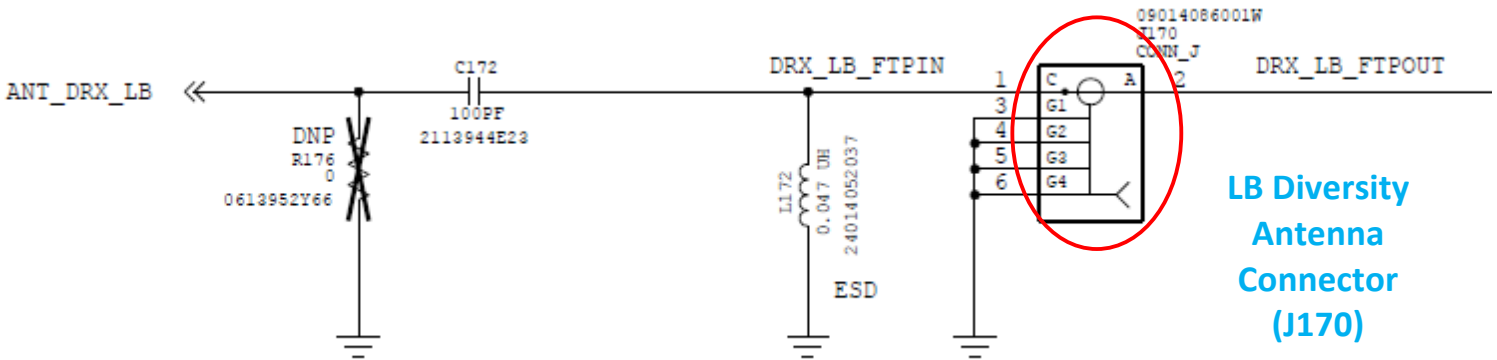
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide**

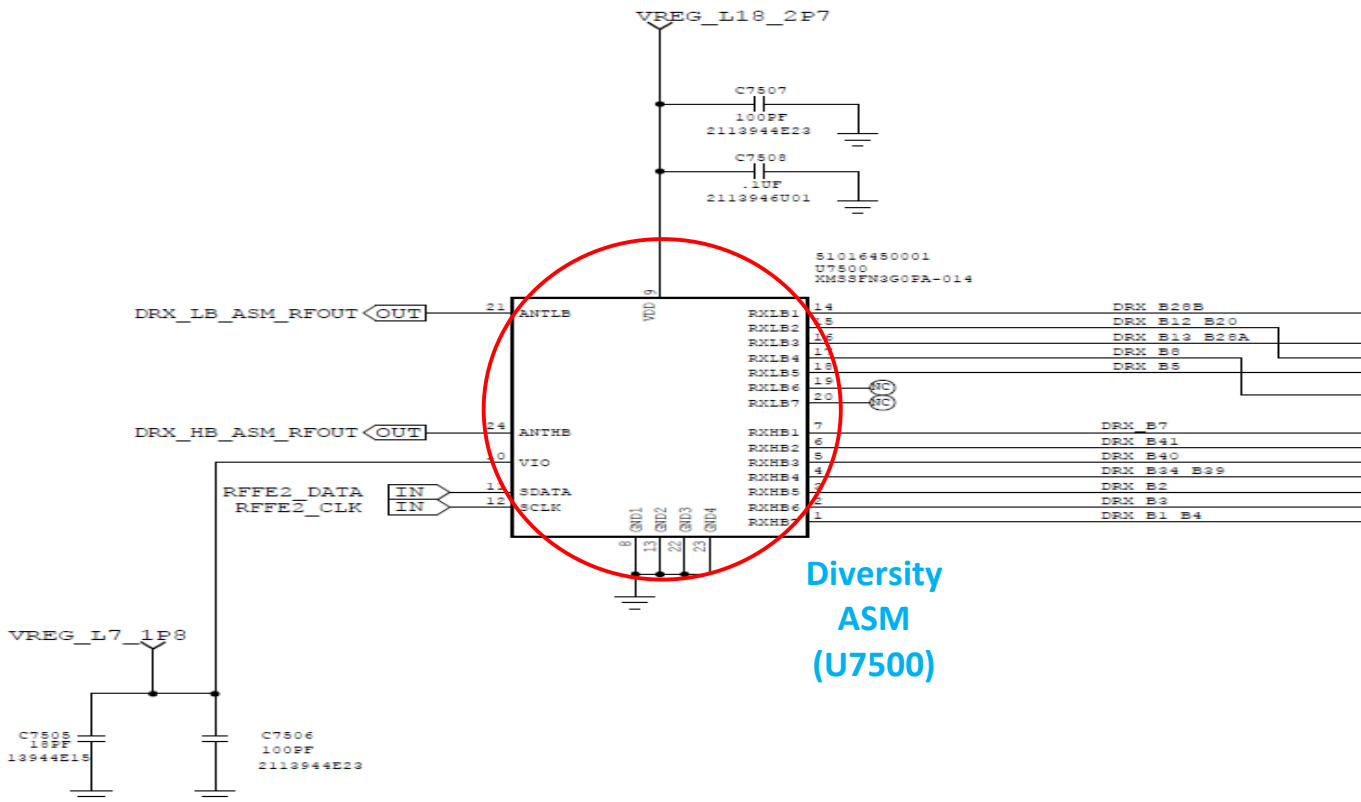
**Board Test**

**LB Diversity Antenna RF Connector (J170) TROUBLESHOOTING: Schematics:**



**LB Diversity Antenna Connector (J170)**

**Figure 5.0**



**Diversity ASM (U7500)**

**Figure 5.1**

TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide**

**Board Test**

LOW BANDS

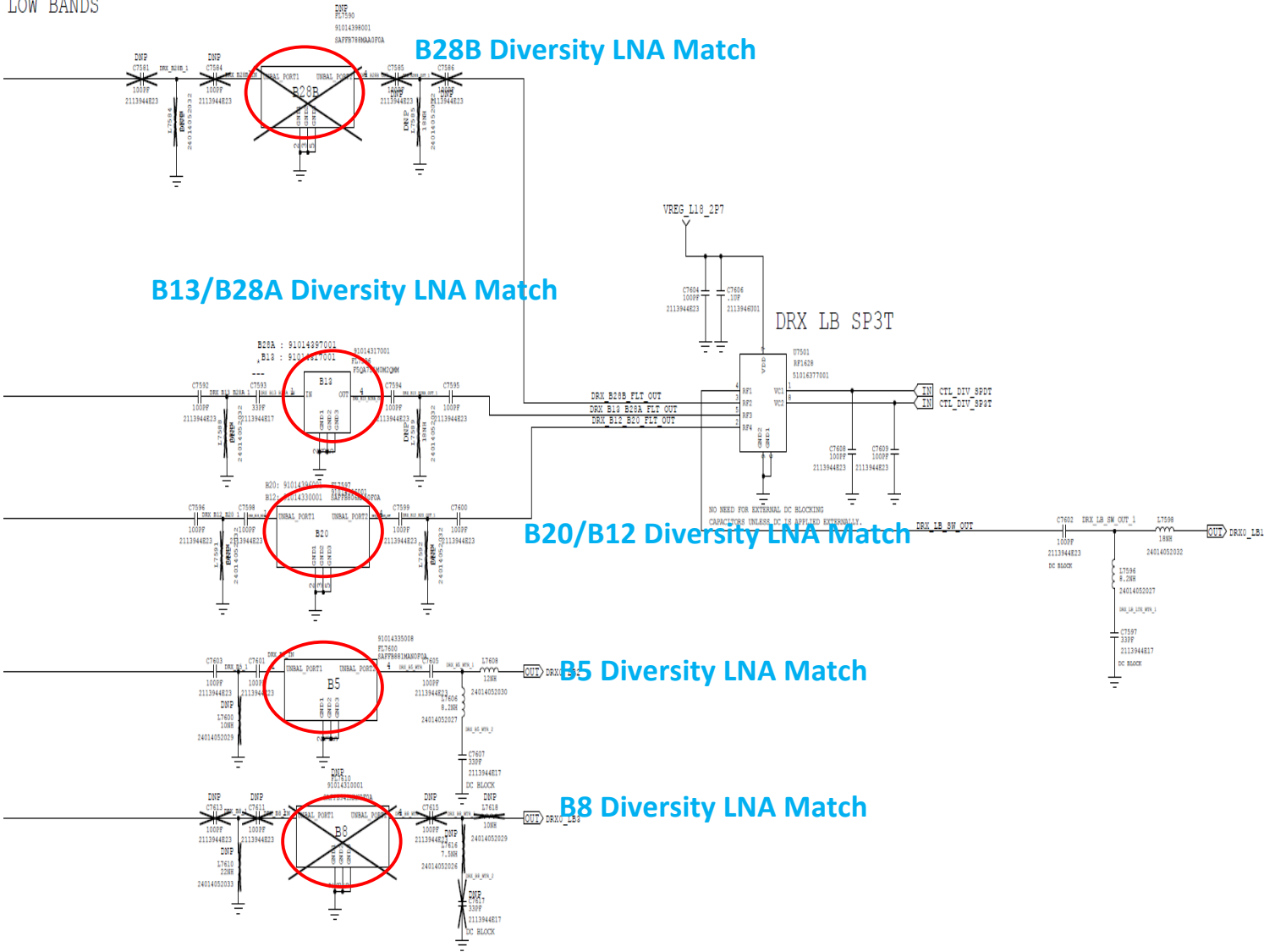


Figure 5.2

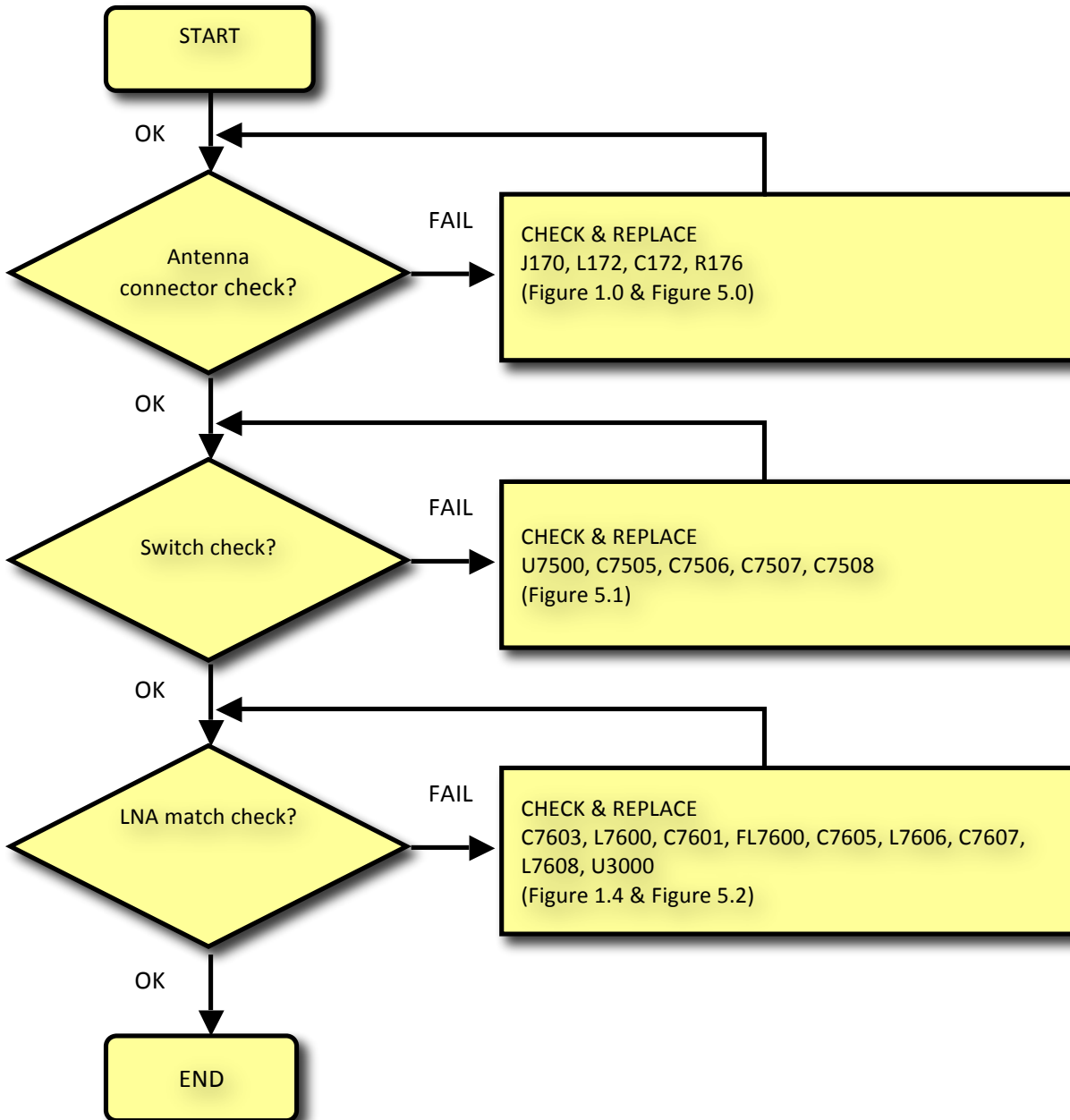
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

CDMA\_800\_C1\_RX, WCDMA\_850\_C1\_RX, & LTE\_Band\_5\_C1\_RX  
Check Chart



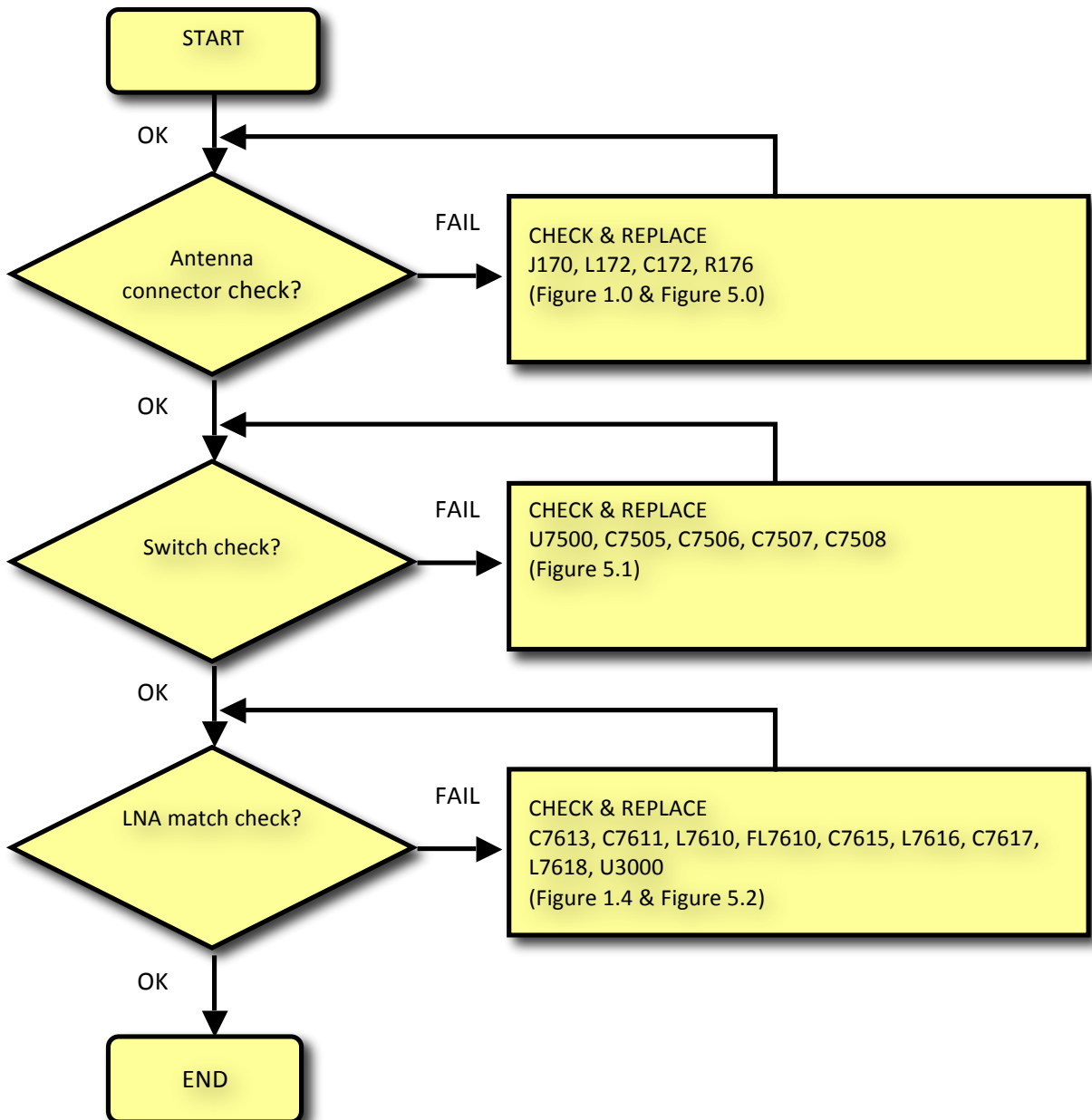
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

WCDMA\_900\_C1\_RX, LTE\_B8\_C1\_RX  
Check Chart





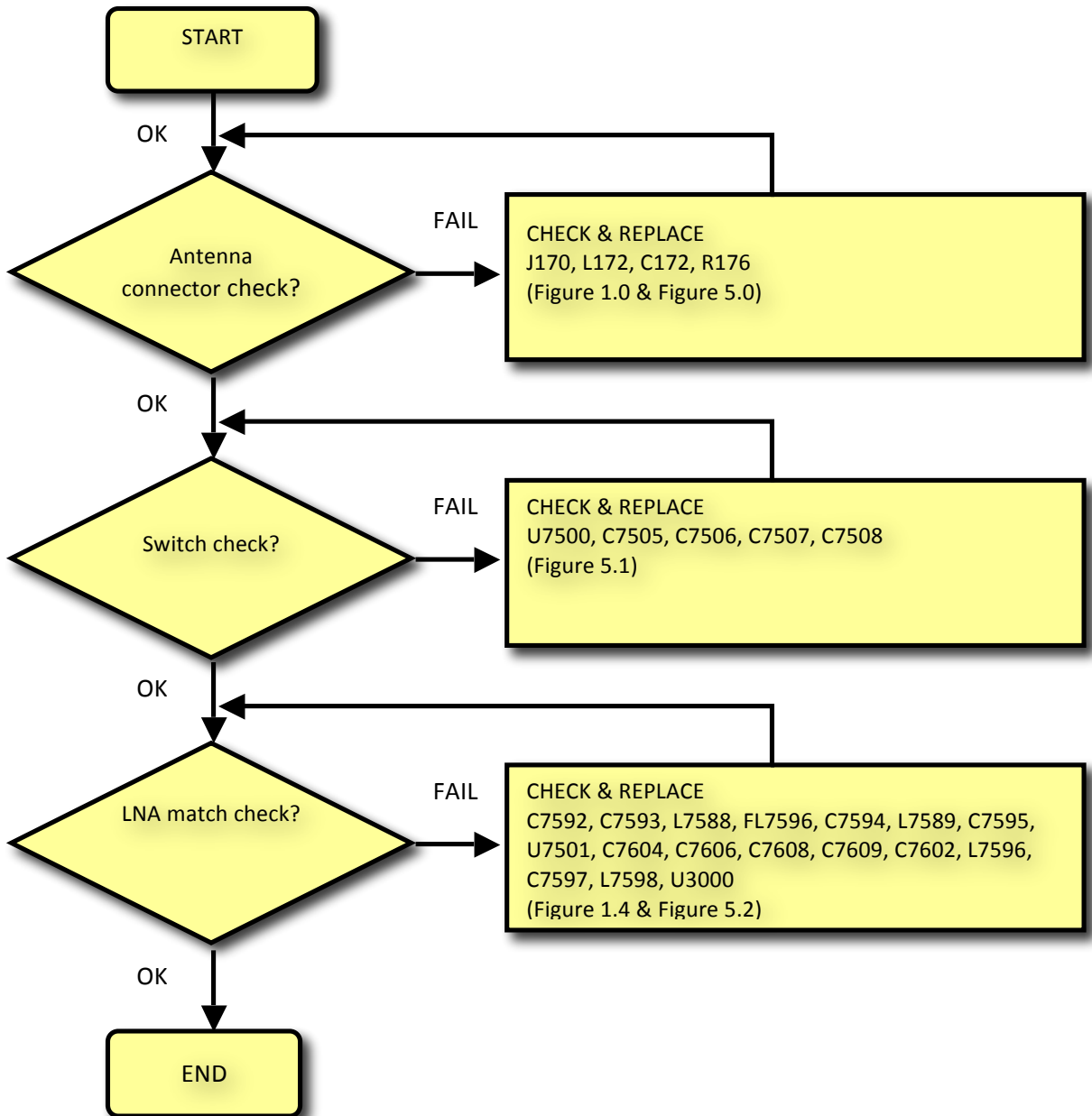
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

LTE\_Band\_13\_C1\_RX & LTE\_Band\_28A\_C1\_RX  
Check Chart



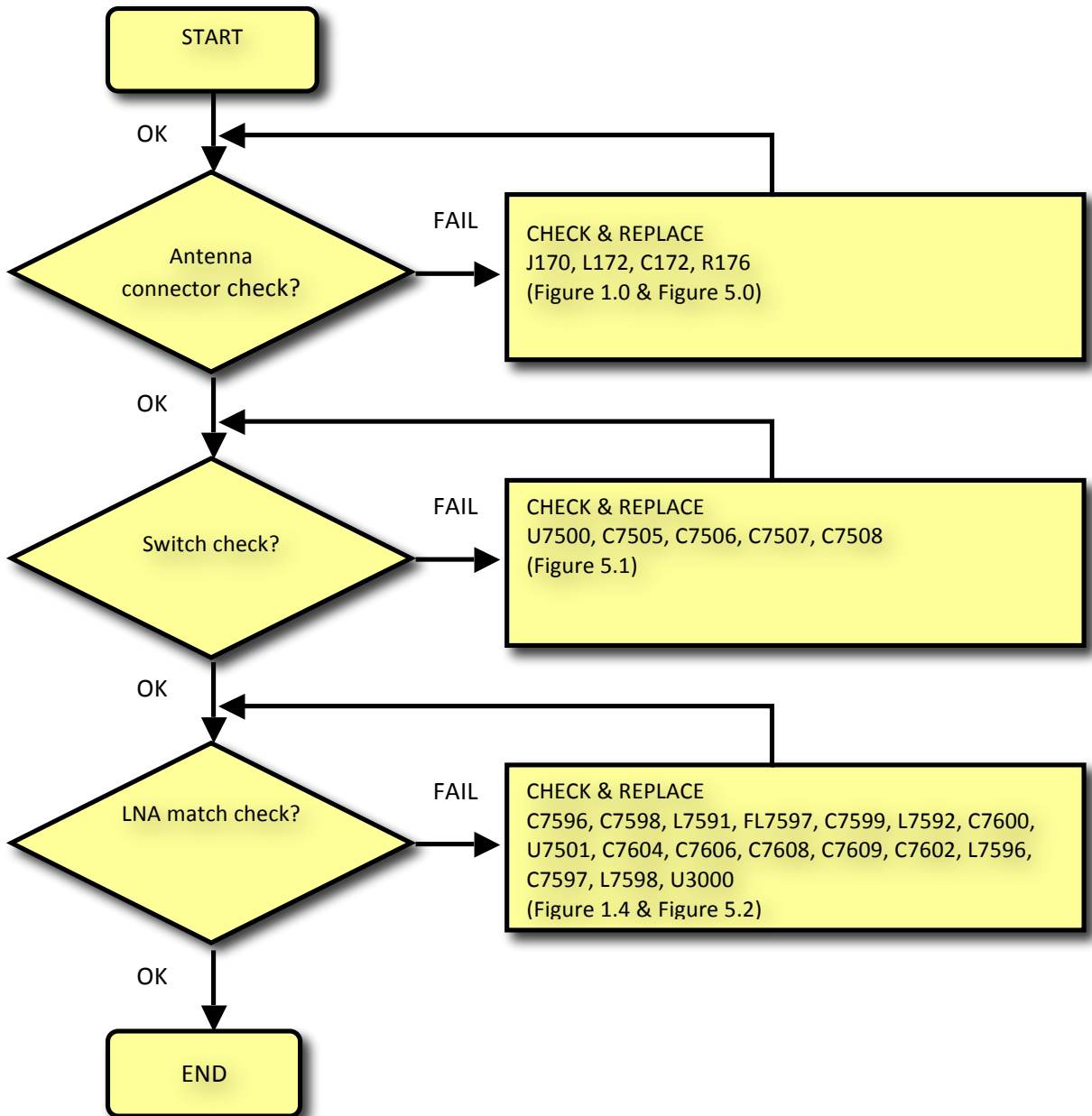
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

LTE\_Band\_12\_C1\_RX & LTE\_Band\_20\_C1\_RX  
Check Chart



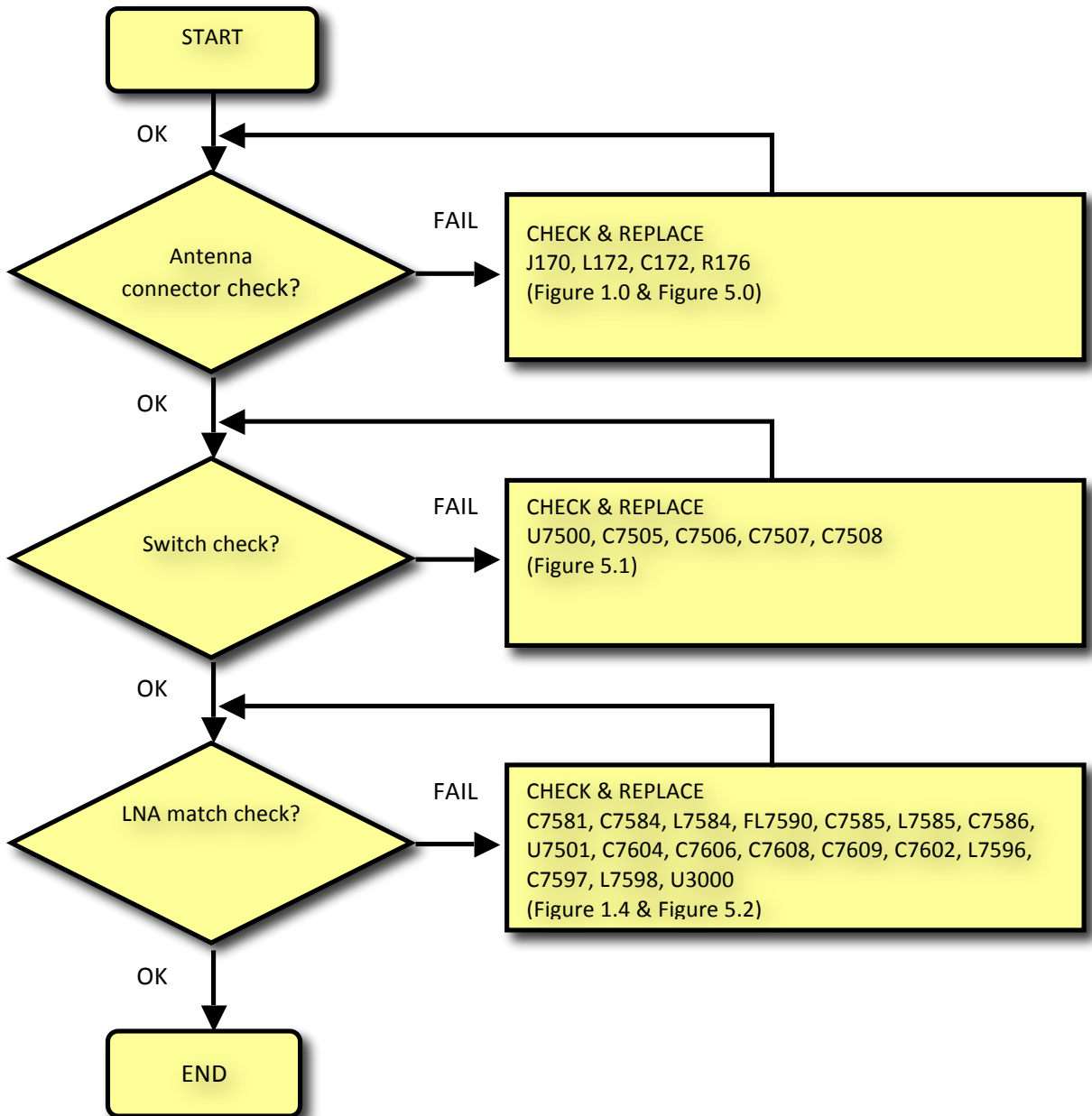
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

LTE\_Band\_28B\_C1\_RX  
Check Chart



TITLE

MODEL

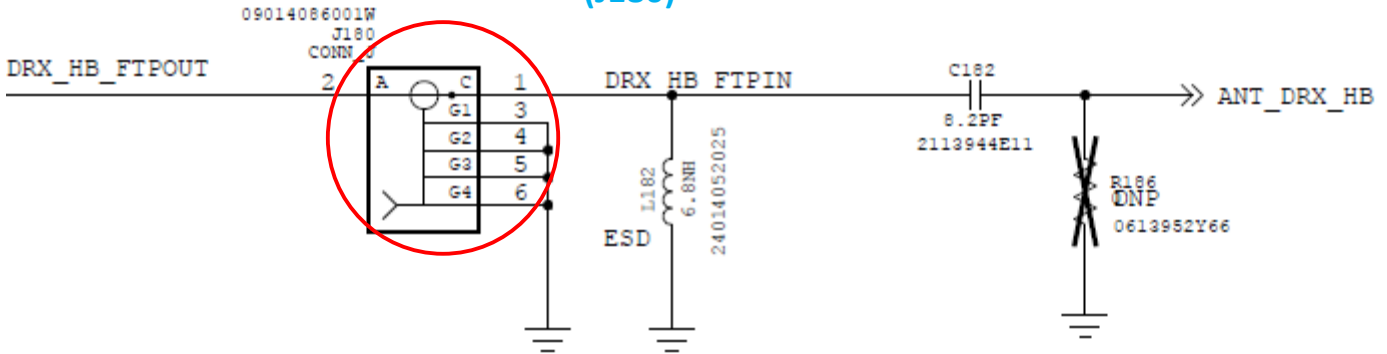
**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

**HB Diversity Antenna RF Connector (J180) TROUBLESHOOTING:  
Schematics:**

# DRX HIGH BAND ANTENNA

**HB Diversity  
Antenna  
Connector  
(J180)**



**Figure 6.0**

TITLE

MODEL

# XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide

Board Test

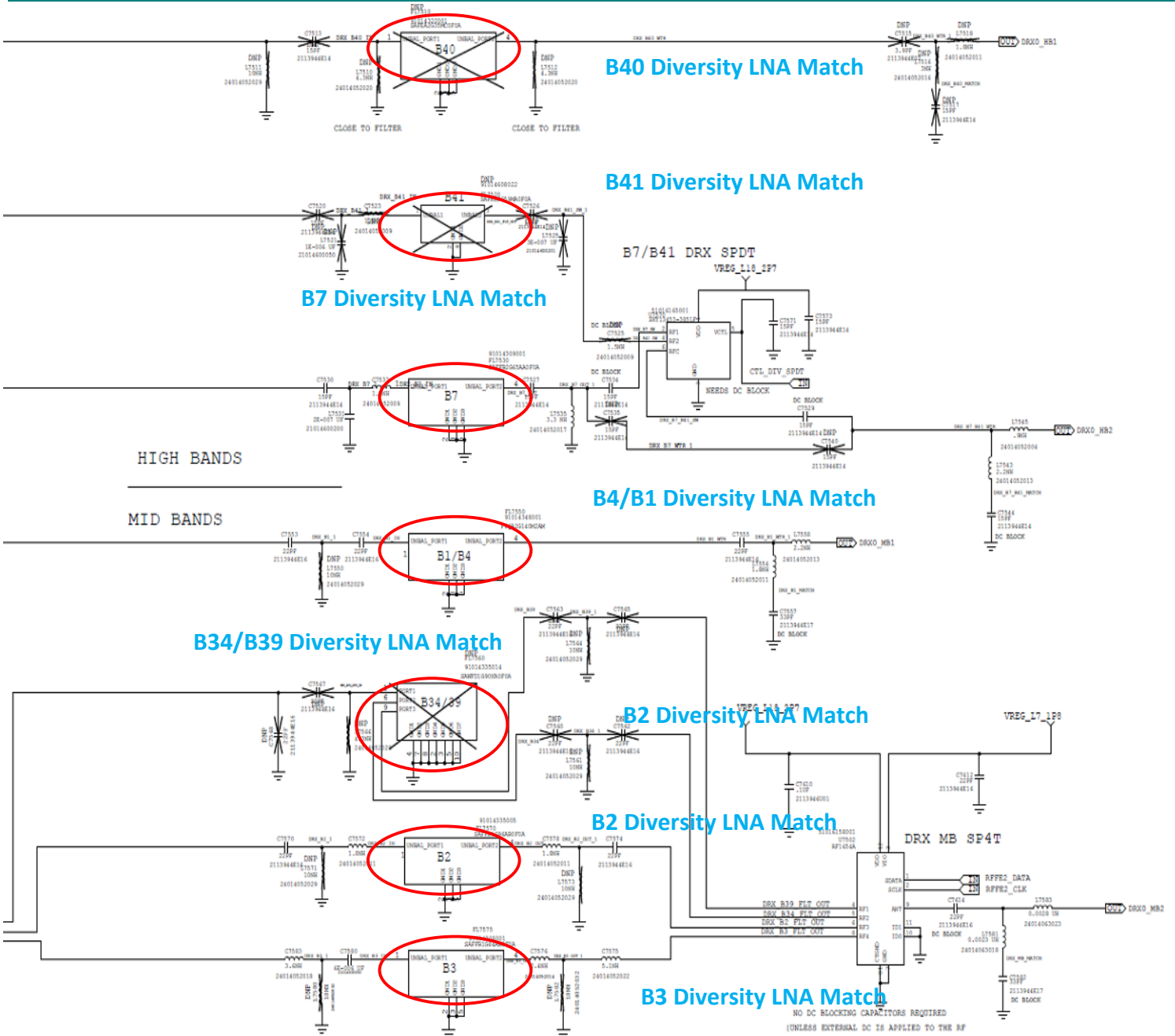


Figure 6.1

CDMA\_1900\_C1\_RX, WCDMA\_1900\_C1\_RX, & LTE\_Band\_2\_C1\_RX

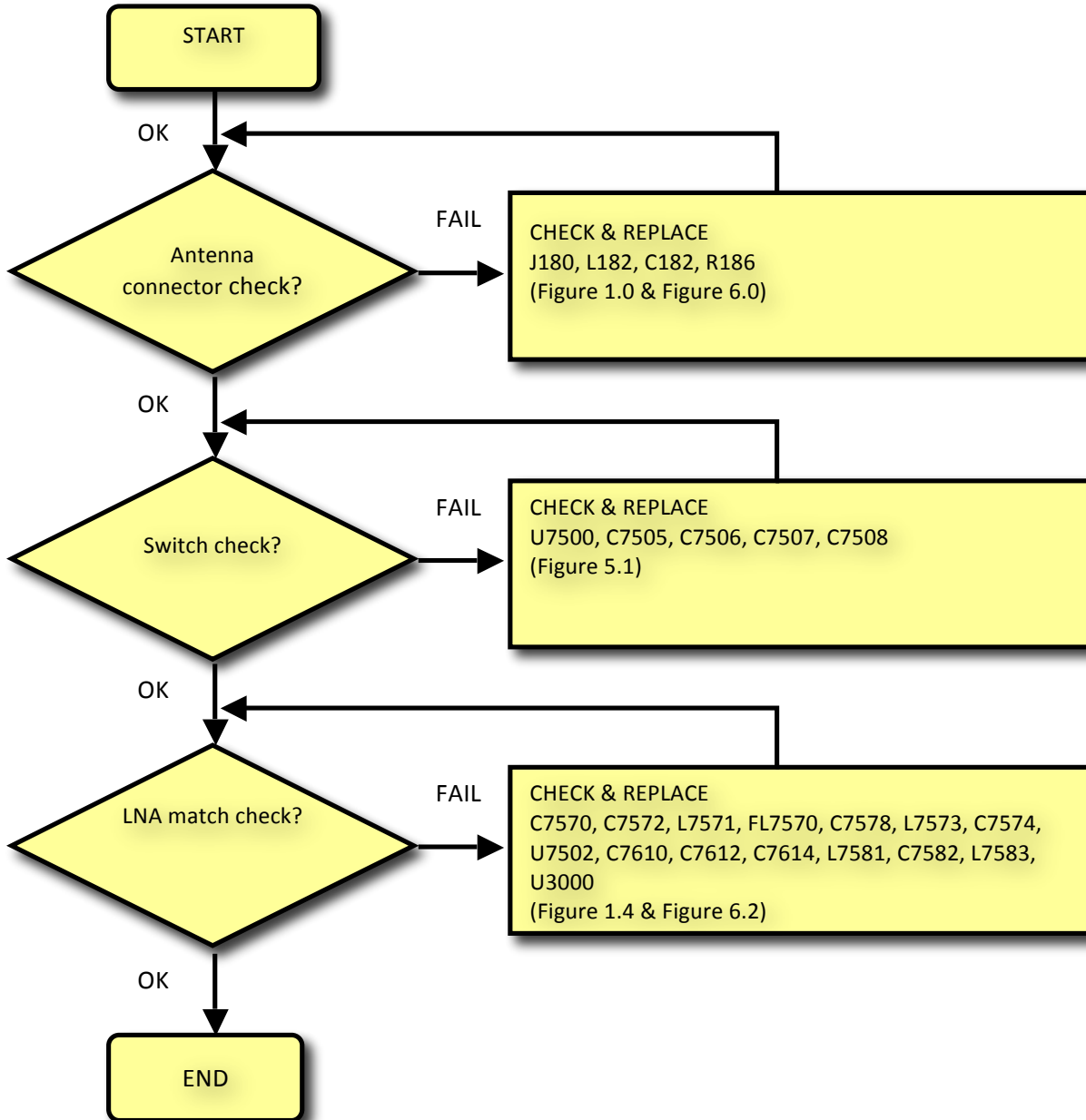
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

Check Chart



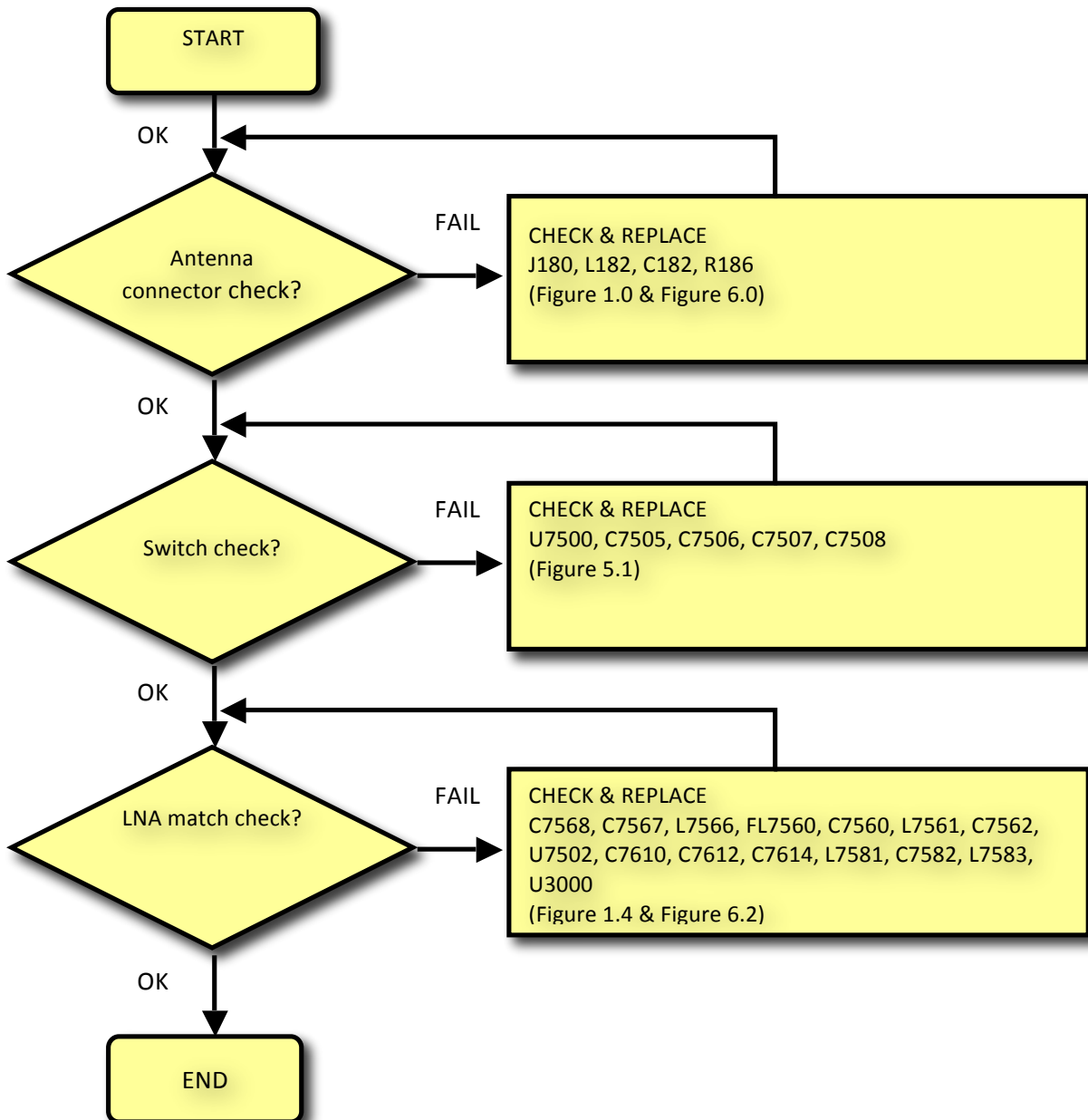
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

LTE\_Band\_34\_C1\_RX  
Check Chart



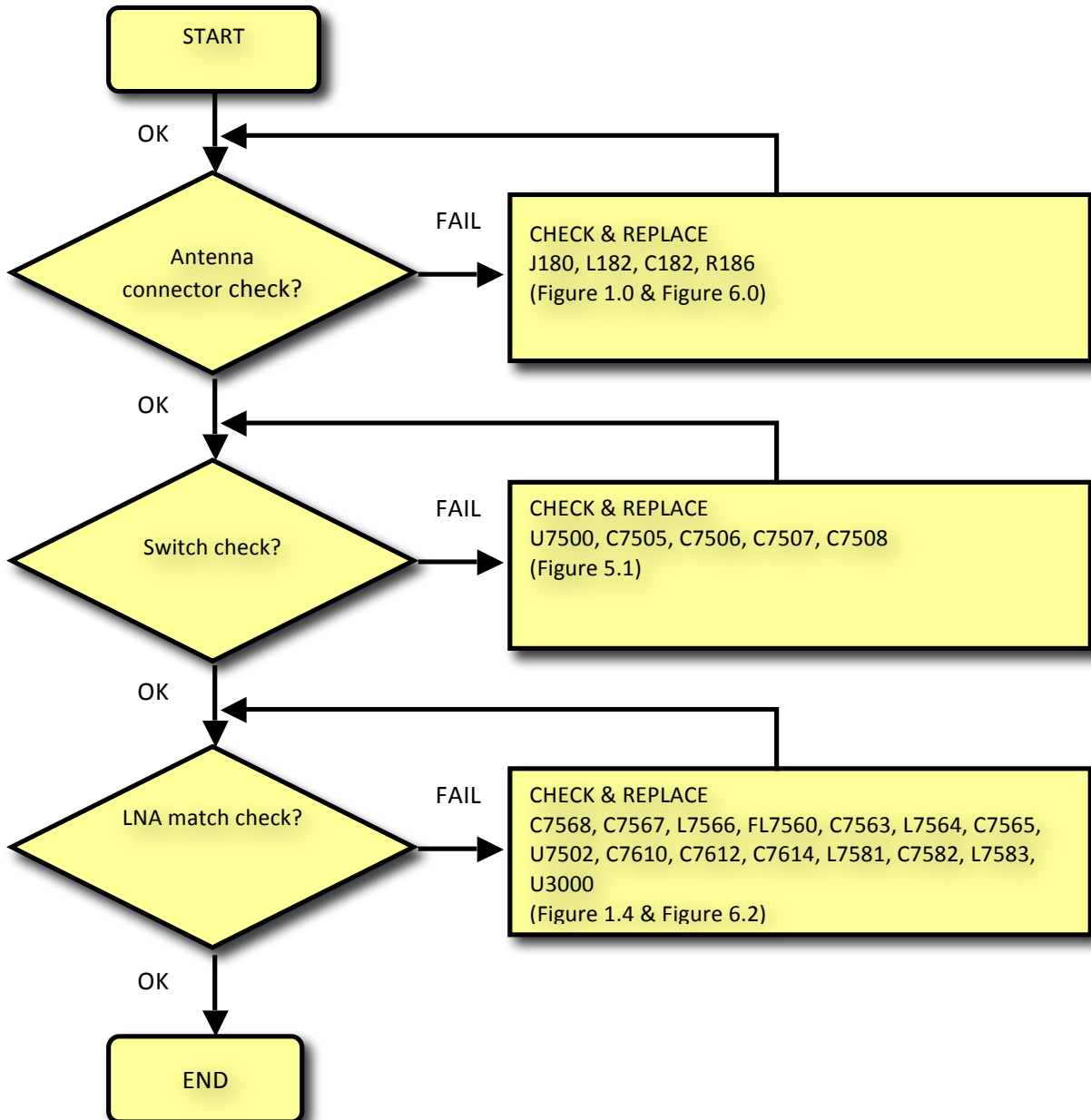
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

LTE\_Band\_39\_C1\_RX  
Check Chart





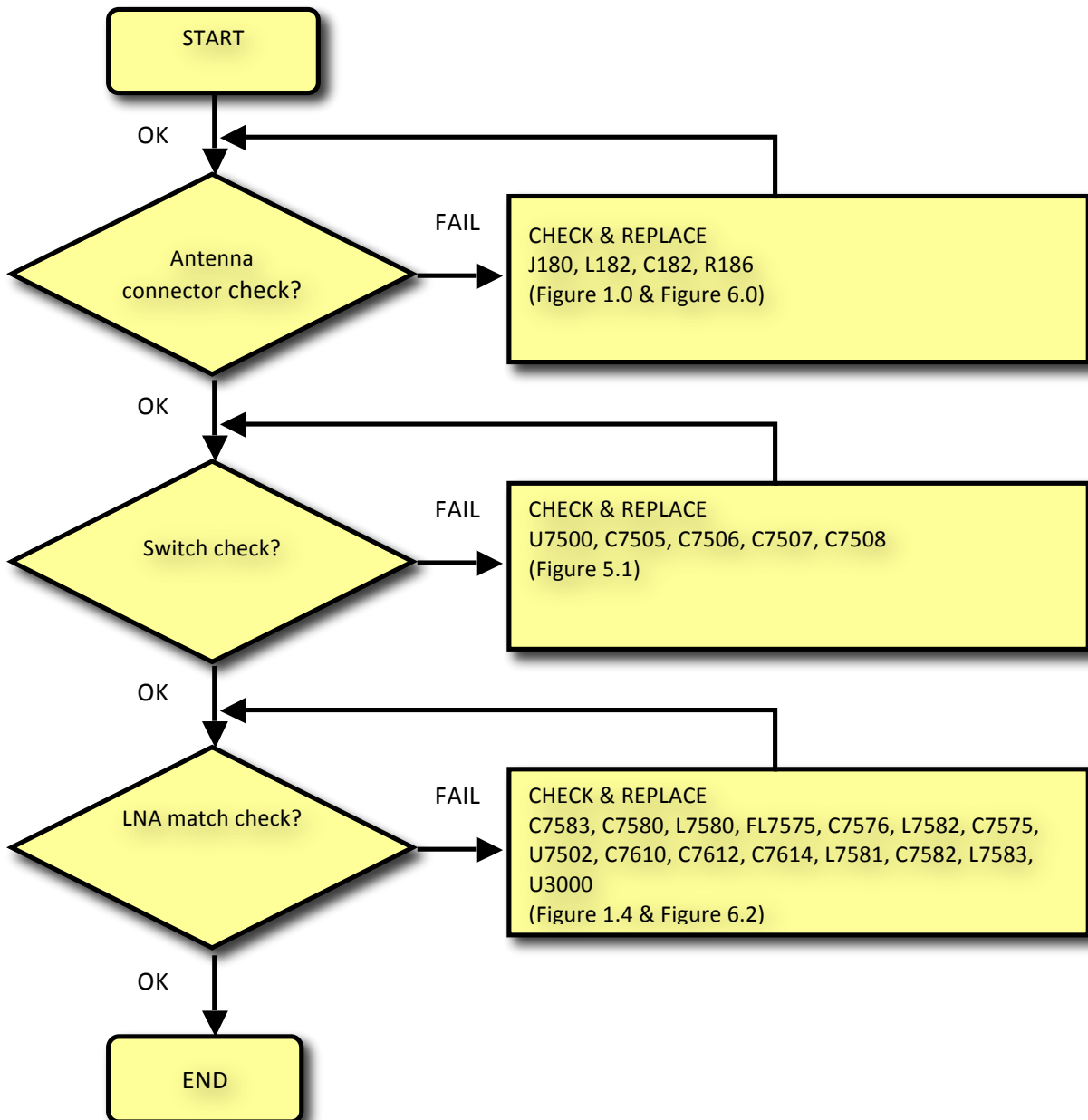
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

LTE\_Band\_3\_C1\_RX  
Check Chart



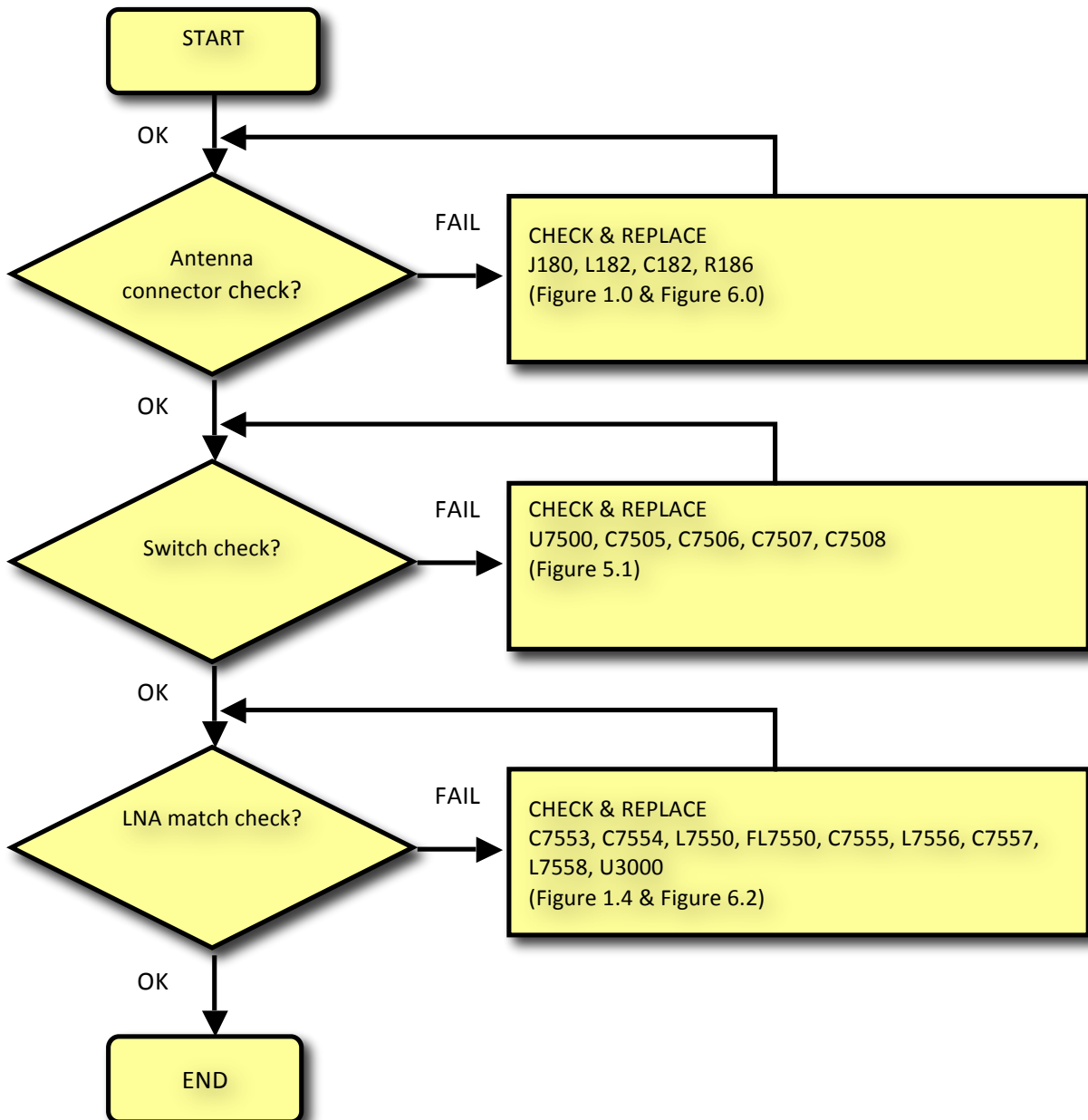
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

LTE\_Band\_4\_C1\_RX, LTE\_Band\_1\_C1\_RX  
Check Chart



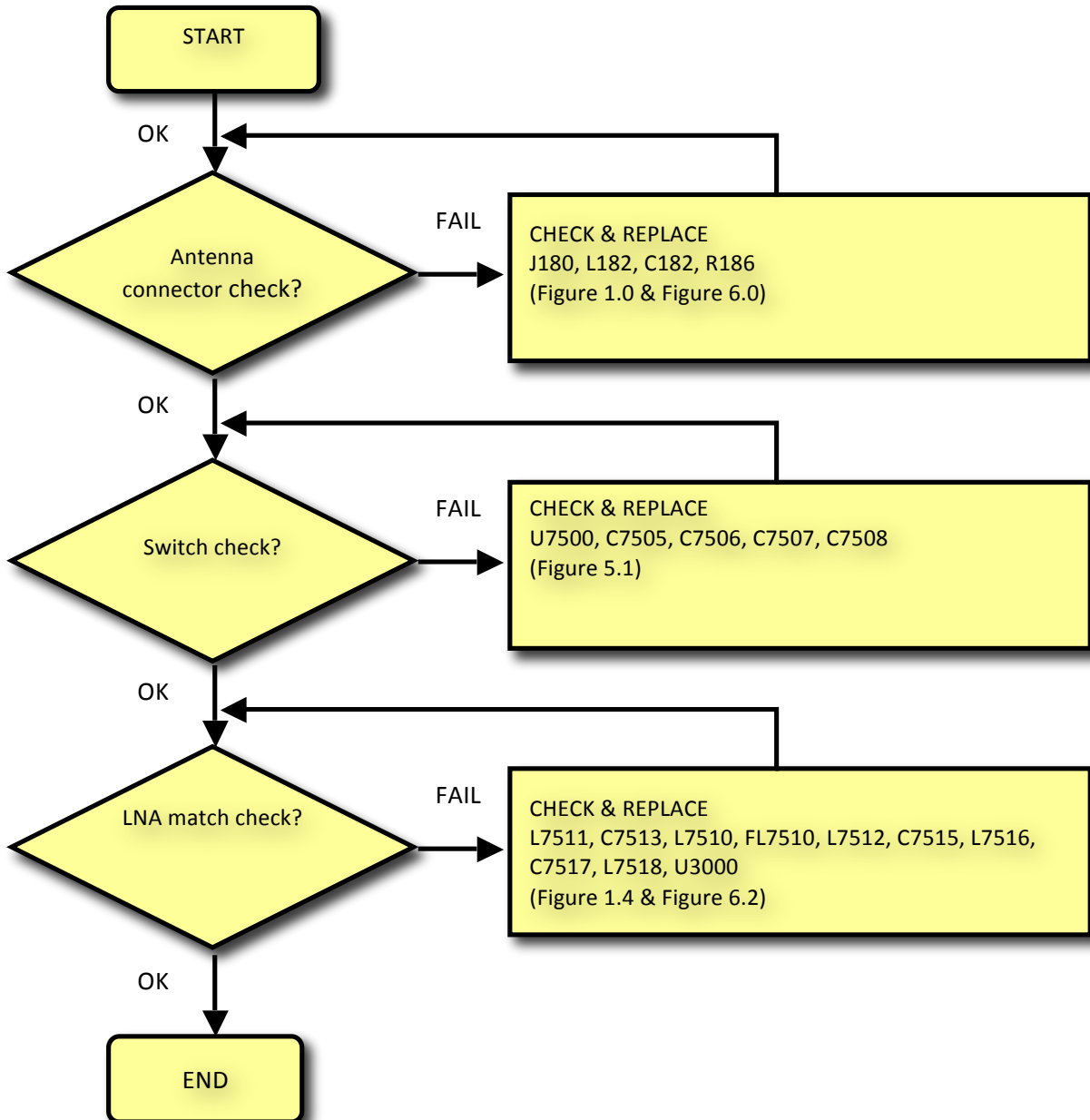
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test Troubleshooting Guide**

**Board Test**

LTE\_Band\_40\_C1\_RX  
Check Chart



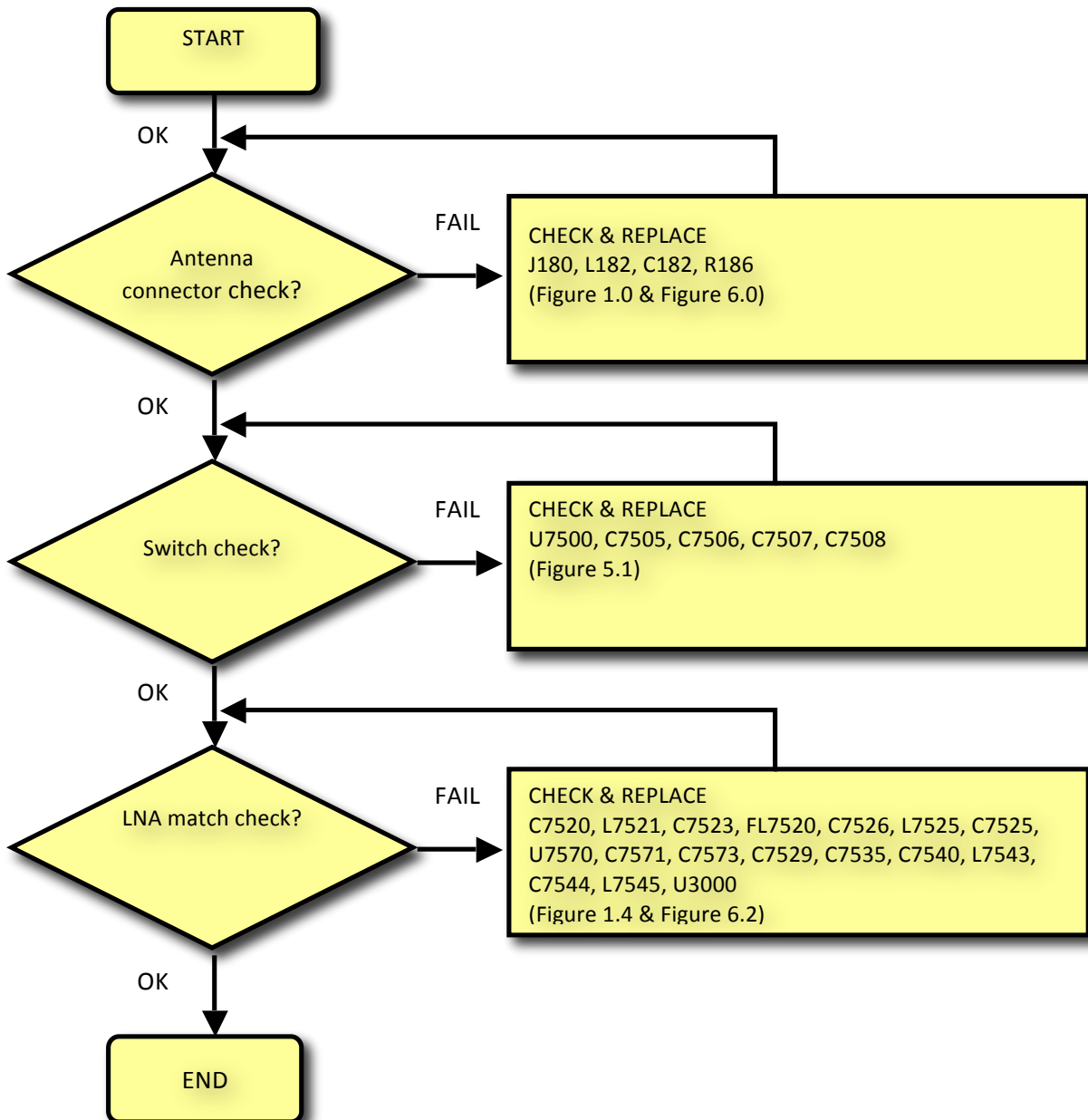
TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

LTE\_Band\_41\_C1\_RX  
Check Chart



TITLE

MODEL

**XT1561/XT1562/XT1563/XT1564/XT1565 Board Test  
Troubleshooting Guide**

**Board Test**

LTE\_Band\_7\_C1\_RX  
Check Chart

