

From

Our Reference

Tel

Hildesheim

26 March 2018

Report

Topic **A-IVI Scope 2, Test concept AIVICMFB0**
Description Comparison lead variants and test concept

Product Type: Radio-Navigation-System

Model Names: AIVICMFB0

Brand: Robert Bosch Car Multimedia GmbH

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1 Introduction and test concept

The Model name **AIVICMFB0** covers different variants of a car multimedia systems with BT/WLAN functionality.

The lead variants are

NAV ROW for different markets

and

DA US for US and Canada market only.

Variant NAV ROW is used as surrogate for the product family AIVICMFB0. All tests are performed with test samples of this variant.

Variant DA US is used for additional worst case spot testing for radiated test.

2 Comparison

NAV ROW contains navigation functionality (route guidance based on GNSS reception).

DA US do not support route guidance (GNSS reception) but contains broadcast receiver for HD and SXM.

Synergies:

All PCB's are identical, only different insertion

BT/WLAN module and circuit including antennas are identical

SW is from one build and only configured to the different functions / regions

Differences in Insertion:

| Circuit | DA US | NAV ROW |
|--------------------------|-----------------------------|------------------------------|
| GNSS (SMD on mainboard) | No | Yes |
| DAB (SMD on mainboard) | No | Yes |
| XM (module on mainboard) | Yes | No |
| HD (SMD on mainboard) | Yes | No |
| Processor / RAM / eMMC | i.MX6 Dlite / 2x256MB / 8GB | i.MX6 Dlite / 2x256MB / 32GB |
| Gyro (SMD on mainboard) | No | Yes |
| AM / FM Frontends | 1 | 3 |

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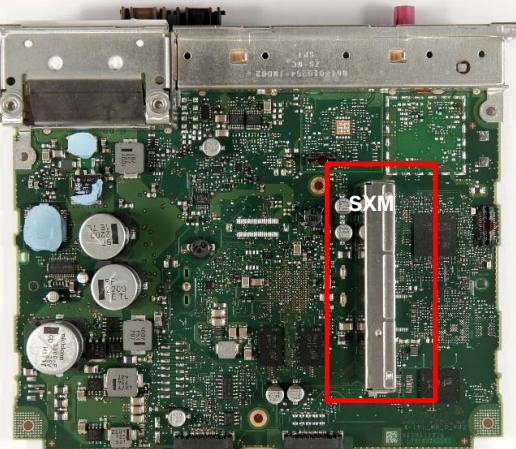
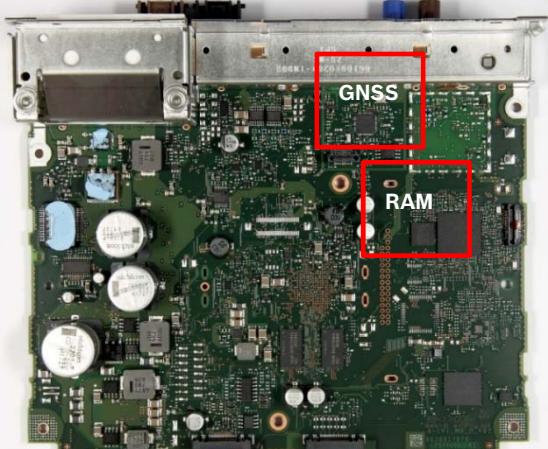
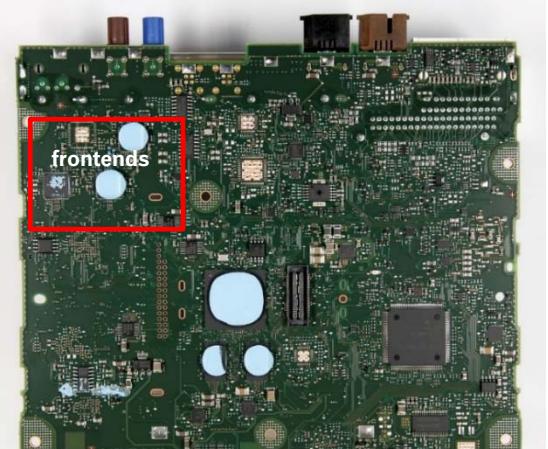
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2.1 Main PCBs

For all AIVICMFB0 variants main PCB 'D' is used.

Circuit and layout name / version: A-IVI_MB_D_V02

| DA US | NAV ROW |
|---|--|
| Insertion for USA / CANADA with XM Tuner | Insertion for rest of world |
|  |  |
| Top side | Top side |
|  |  |
| Bottom side | Bottom side |

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2.2 SXM Module (all US / CAN variants)



2.3 Switch PCBs

For all AIVICMFB0 variants switch PCB 'CMFB' is used.

Circuit and layout name / version: A-IVI_SB_CMF-B_V01

BT/WLAN module and antennas are placed on the switch PCB.

