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Working Instructions

- mechanical -



Xperia™ Z1
L39t, L39u, C6916

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***For general information about mechanical repair related issues, refer to
1220-1333: Generic Repair Manual - mechanical***

Always firstly disconnect the Battery FPC BtB connector to cut off power supply when the Sub Antenna Assy is disassembled.

Always finally connect the Battery FPC BtB connector before the Sub Antenna Assy is reassembled.

If there are no special indications of 'L39t/L39u Specific' or 'C6916 Specific', L39t, L39u and C6916 share the same repair method as common sections, whose pictures are used with L39t. 'L39t/L39u Specific' chapters use L39t pictures.

1 Exterior Views

1.1 L39t/L39u



Exterior Views

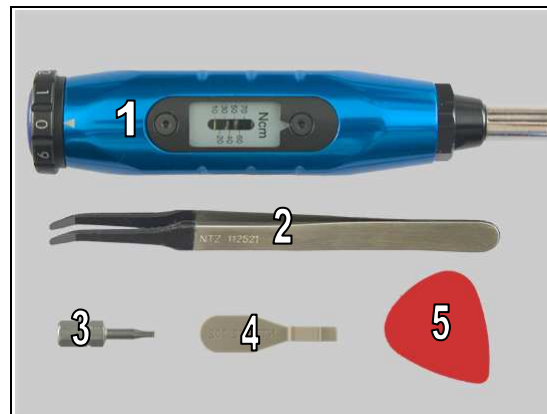
1.2 C6916



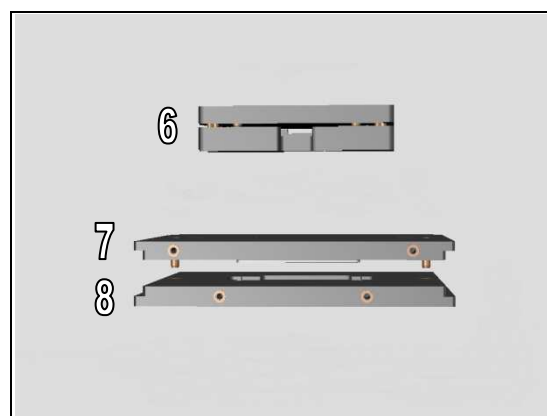
2 Tools

SPECIAL TOOLS

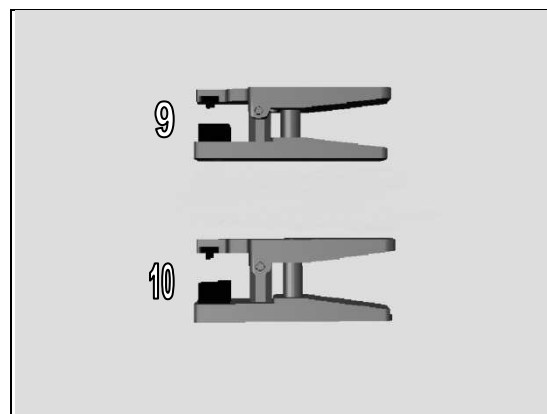
1. Torque Screwdriver
2. Flex Film Assembly Tool
3. Torx Bits T4
4. Front Opening Tool
5. Guitar Pick



6. Window Back Adhesive Fixture
7. Window Back Press Top Inlay
8. Bottom Press Inlay



9. Earspeaker Press Tool
10. Audio Jack Press Tool



11. Side Panel press
12. Side Panel Press Head
13. Charge connector press pad

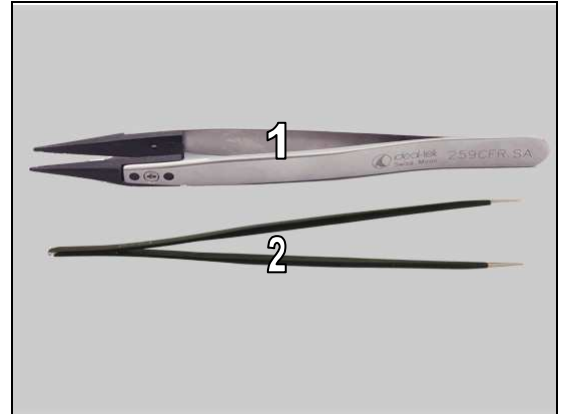


For part no's on the tools above, refer to the 'Tools Catalogue/Matrix'!

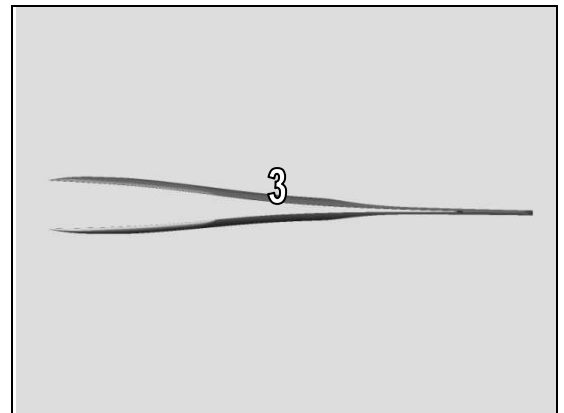
Tools

STANDARD TOOLS

1. Plastic Tweezers
2. Pointed-tip Tweezers



3. Blunt-tip Tweezers



4. Suction cup

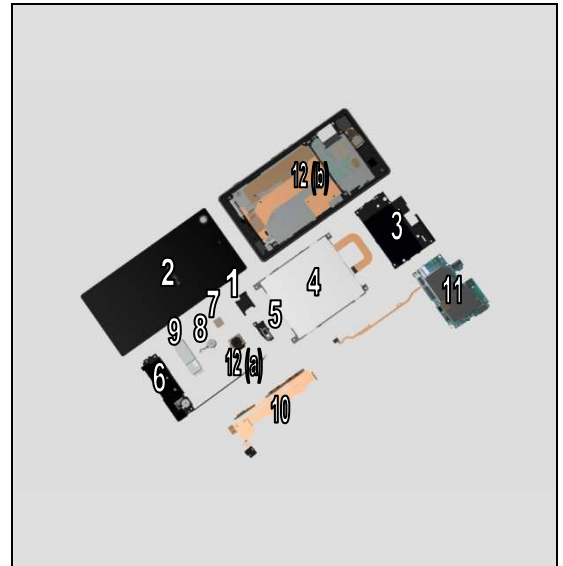


3 Disassembly

3.1 Disassembly-L39t/L39u Specific

The L39t/L39u disassembly is done in the following order:

1. SIM Tray
2. Window Back Sub Assy
3. Sub Antenna Assy
4. Battery
5. Holder FPC Assy Audio Jack
6. Main Antenna Speaker Sub Assy & RF Cable & PBA Sub
7. Tape Vibrator Connector
8. Vibrator
9. Shield Can LCD Component
10. FPC Assy Relay/Side Key
11. Main PBA & FPC Assy 2nd Antenna
12. Camera & Camera Holder (a) and Display Frame Assy (b)



Disassembly

3.1.1 SIM Tray

Open the Cap SIM.



Remove the SIM Tray with fingers.

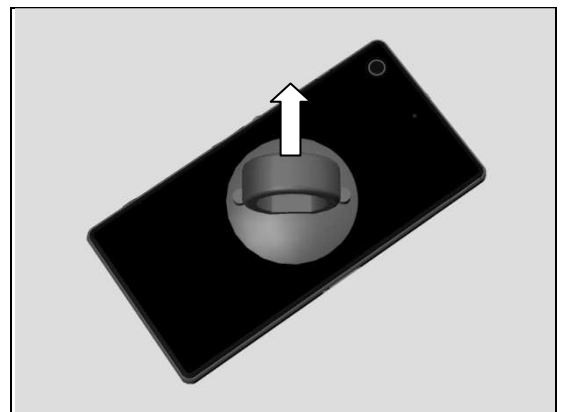


Close the Cap SIM.



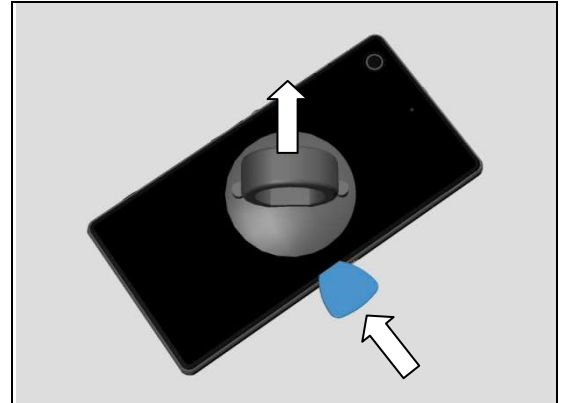
3.1.2 Window Back Sub Assy

Use Suction Cup to get space for inserting the Guitar Pick.



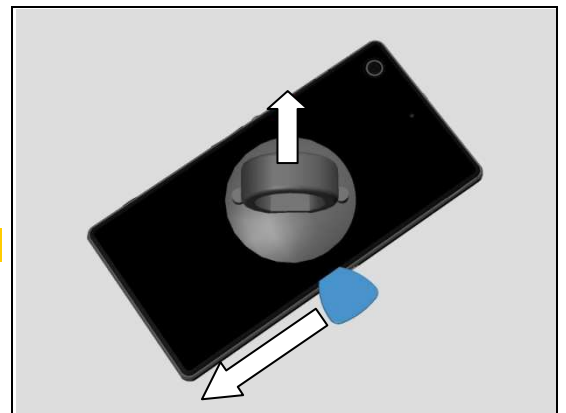
Disassembly

Insert the Guitar Pick.

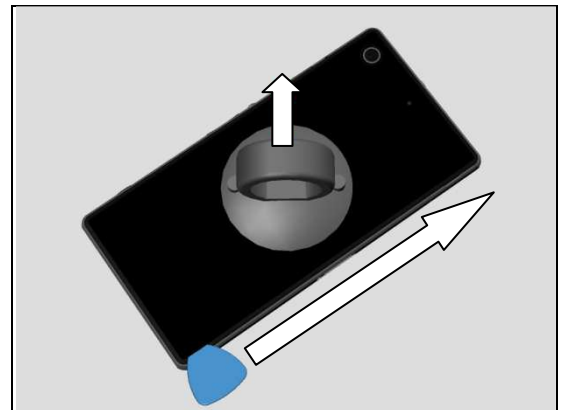


Gently slide the Guitar Pick along to release all sides of the Window Back Sub Assy.

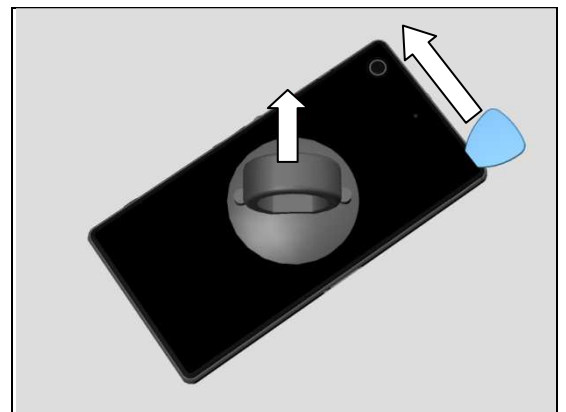
Note! Start in the middle of the right long side!



Do the same.

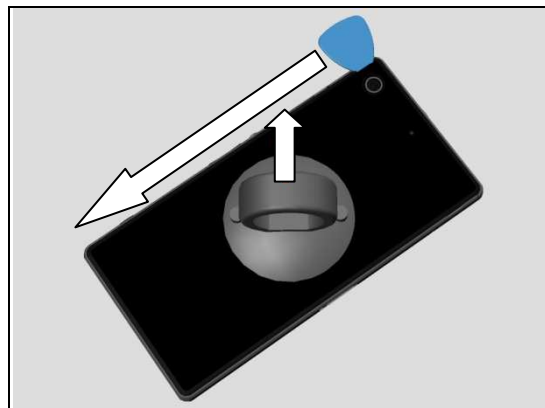


Do the same.

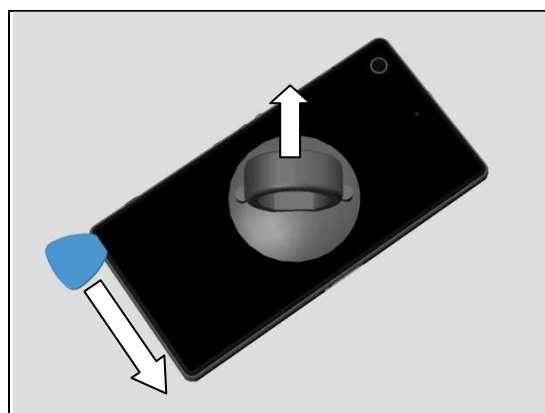


Disassembly

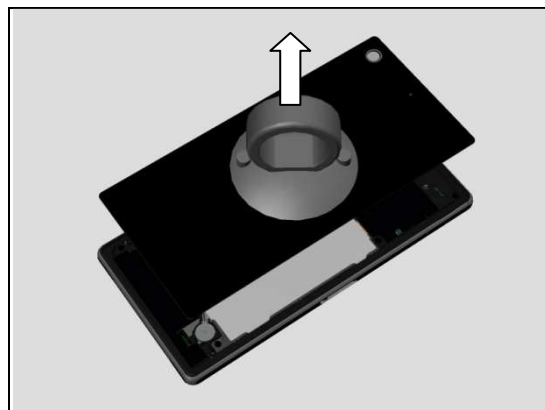
Do the same.



Do the same.

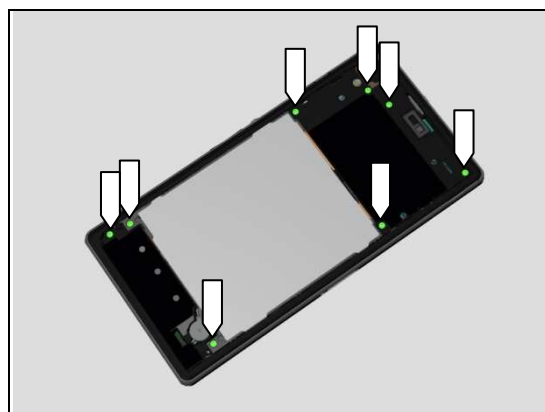


Remove the Window Back Sub Assy by using the Suction Cup.



3.1.3 Sub Antenna Assy

Remove the eight Screw Other Len:4.0 Diam:1.4 by using a screwdriver with Torx Bits T4.



Disassembly

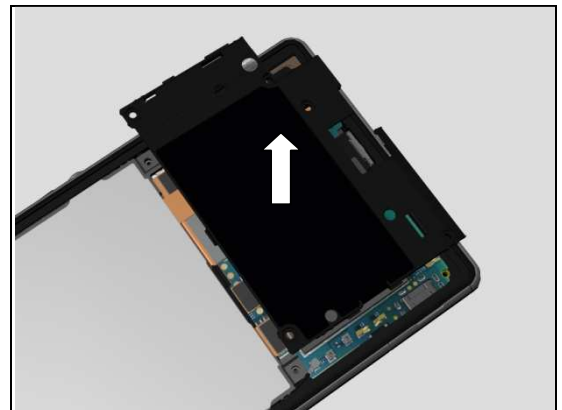
Release the hooks by using Guitar Pick and lift up the Sub Antenna Assy from bottom side.



Release top right side of the Sub Antenna Assy as shown in picture.



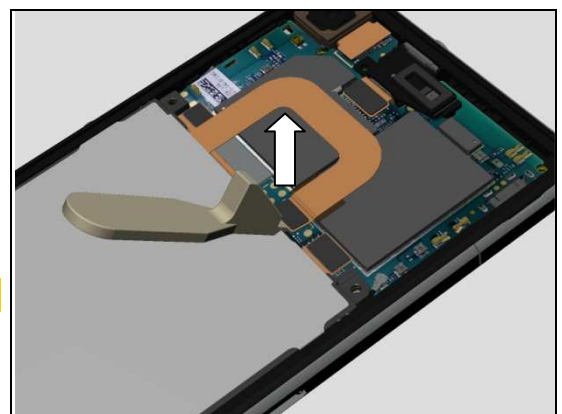
Remove the Sub Antenna Assy.



3.1.4 Battery

Disconnect the Battery FPC BtB connector by using the Front Opening Tool.

Do not damage components on the Main PBA!

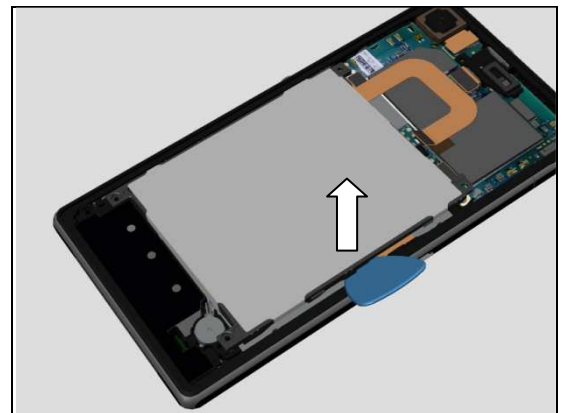


Disassembly

Insert Guitar Pick between the Battery and the Display Frame Assy.

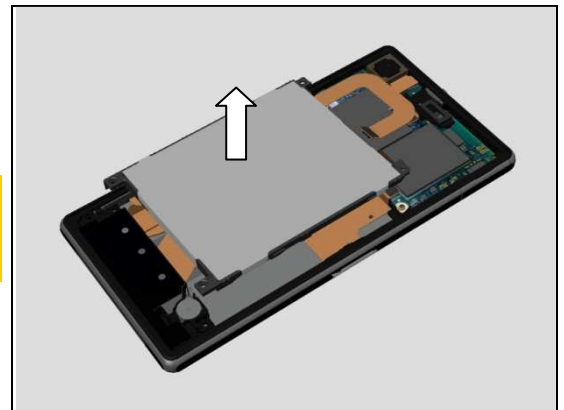


Gently release the Battery from its cavity.



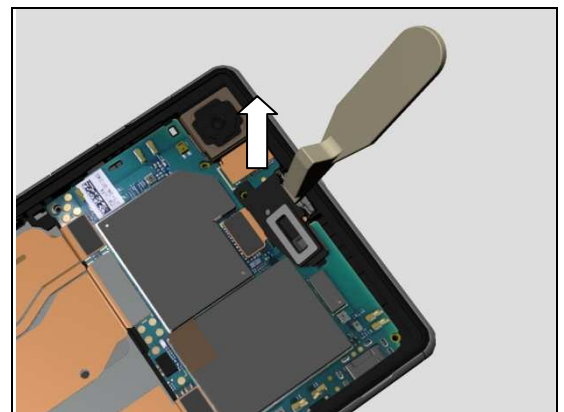
Remove the Battery.

**Carefully inspect the Battery after removing it.
Battery with visual signs of been punctured etc, then
should be scraped after removal!**



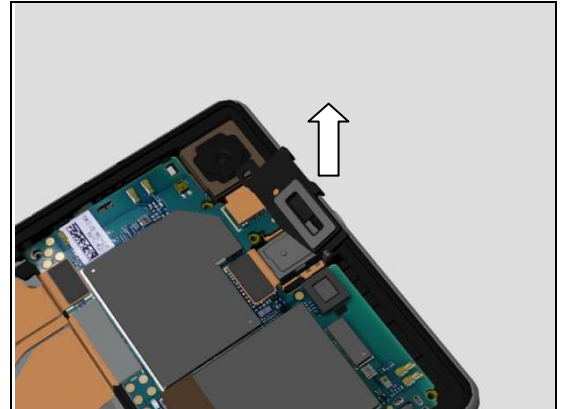
3.1.5 Holder FPC Assy Audio Jack

Unsnap the Holder FPC Assy Audio Jack by using the Front Opening Tool.



Disassembly

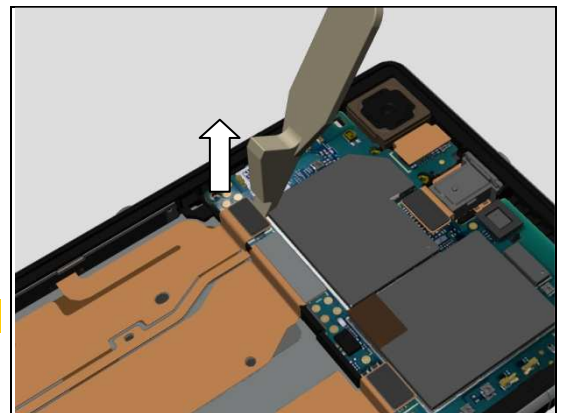
Remove it.



3.1.6 Main Antenna Speaker Sub Assy & RF Cable & PBA Sub

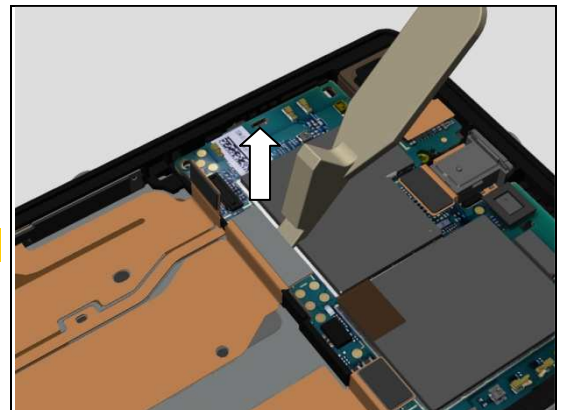
Disconnect BtB connector of the FPC Assy Relay/Side Key by using the Front Opening Tool.

Do not damage components on the Main PBA!



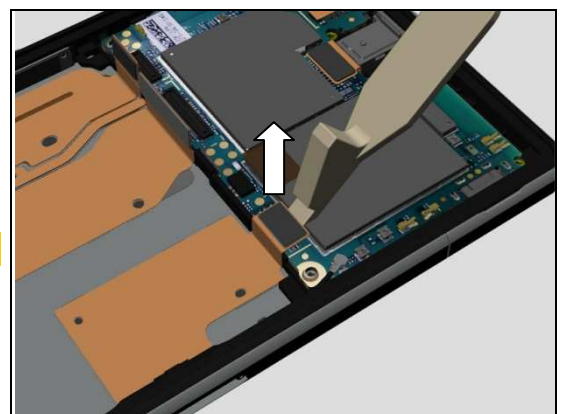
Disconnect BtB connector of the Display FPC by using the Front Opening Tool.

Do not damage components on the Main PBA!



Disconnect BtB connector of the FPC Assy Charger Pad by using the Front Opening Tool.

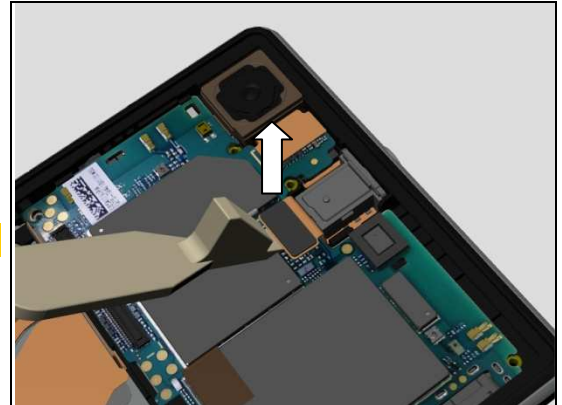
Do not damage components on the Main PBA!



Disassembly

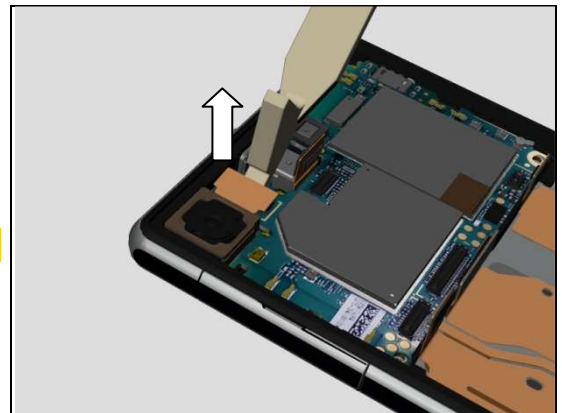
Disconnect BtB connector of the FPC Assy Audio Jack by using the Front Opening Tool.

Do not damage components on the Main PBA!



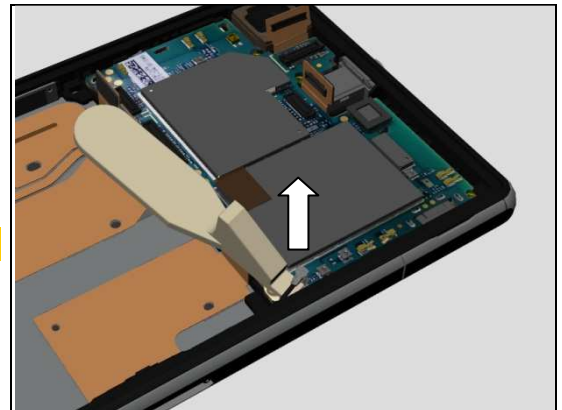
Disconnect BtB connector of the Camera FPC by using the Front Opening Tool.

Do not damage components on the Main PBA!



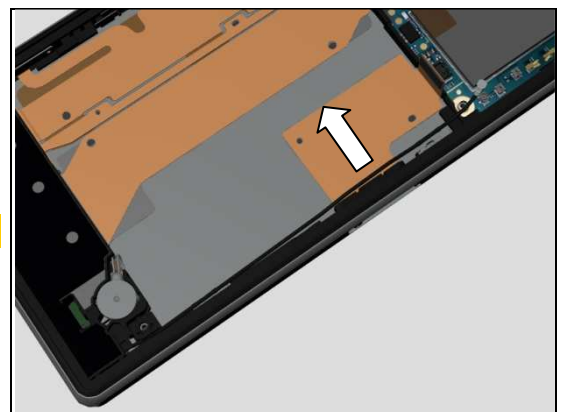
Disconnect RF Cable connector by using the Front Opening Tool.

Do not damage components on the Main PBA!



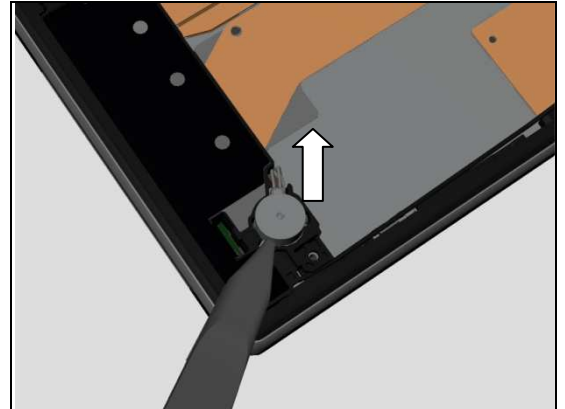
Release the RF cable from the Plate Contact RF A.

Do not stretch the RF Cable!

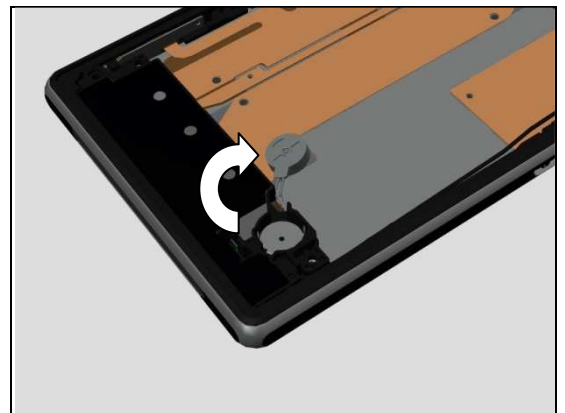


Disassembly

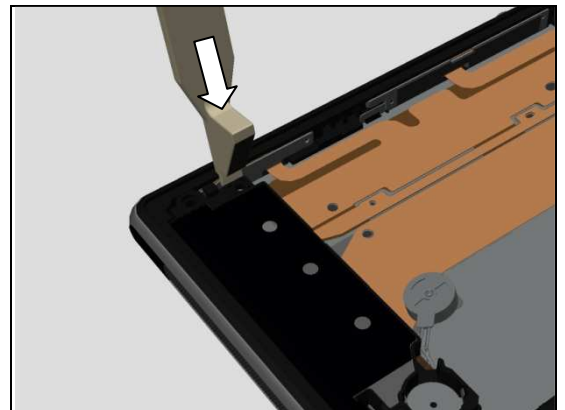
Release the Vibrator by using the Plastic Tweezers.



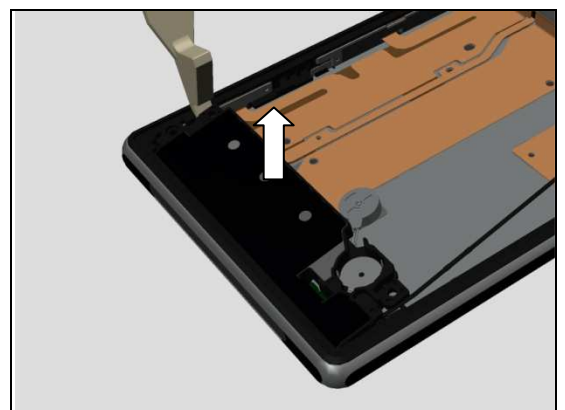
Rotate the Vibrator as shown in picture.



Insert Front Opening Tool between the Main Antenna Speaker Sub Assy and the Display Frame Assy.

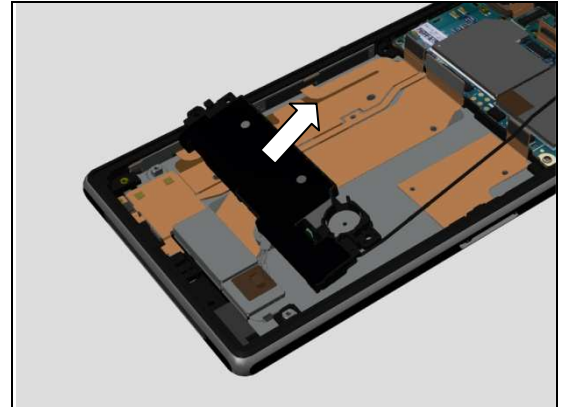


Release the hooks of the Main Antenna Speaker Sub Assy.



Disassembly

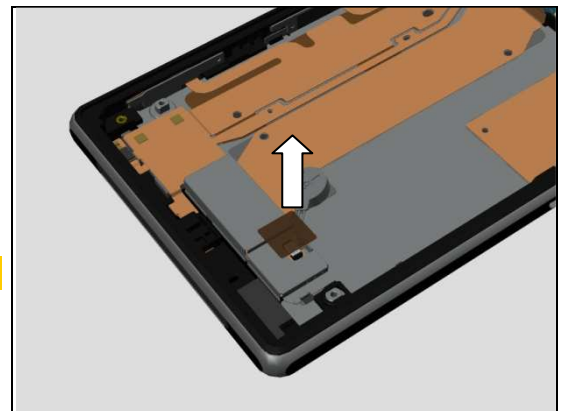
Remove the Main Antenna Speaker Sub Assy.



3.1.7 Tape Vibrator Connector

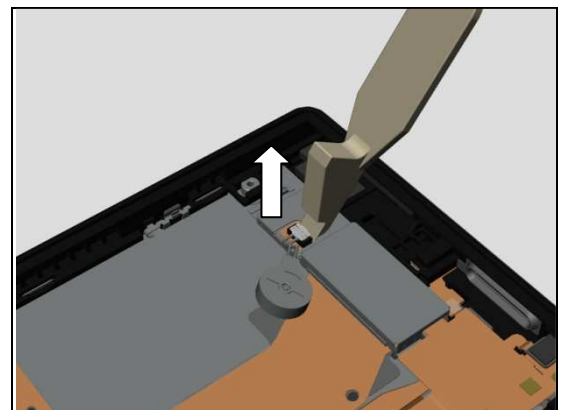
Detach the Tape Vibrator Connector.

Scrap! Not to be reused!

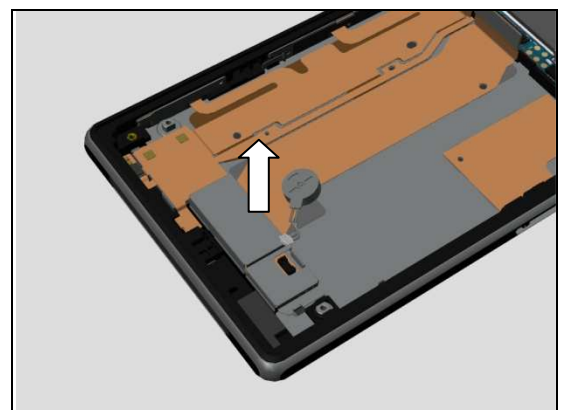


3.1.8 Vibrator

Disconnect Vibrator connector by using the Front Opening Tool.



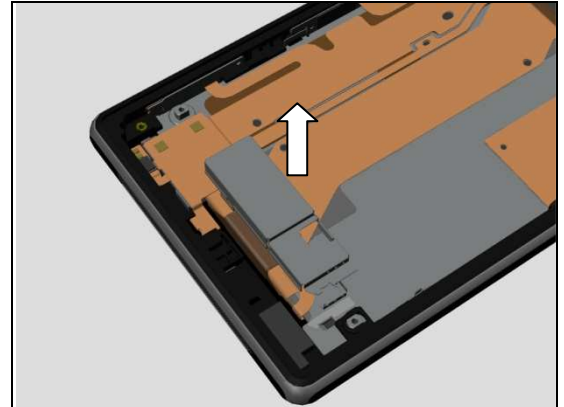
Remove the Vibrator.



Disassembly

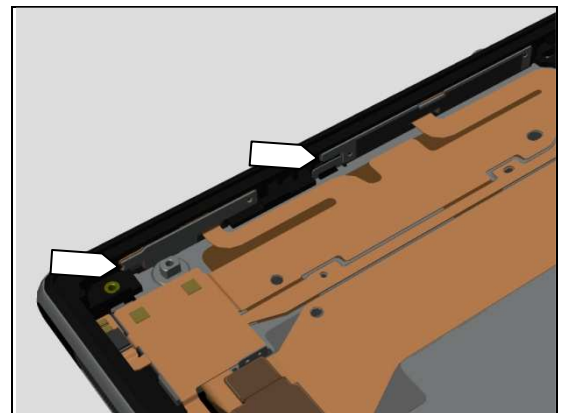
3.1.9 Shield Can LCD Component

Detach and remove the Shield Can LCD Component.

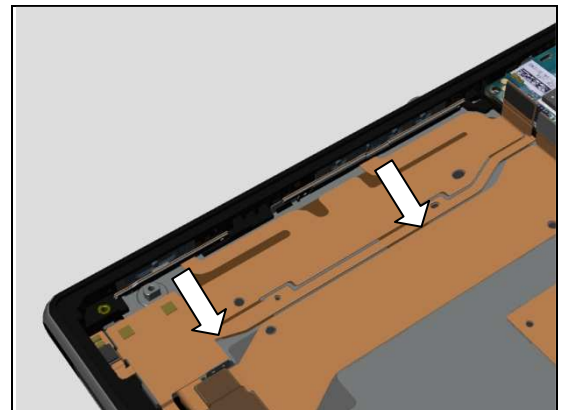


3.1.10 FPC Assy Relay/Side Key

Identify the release positions as shown in picture.

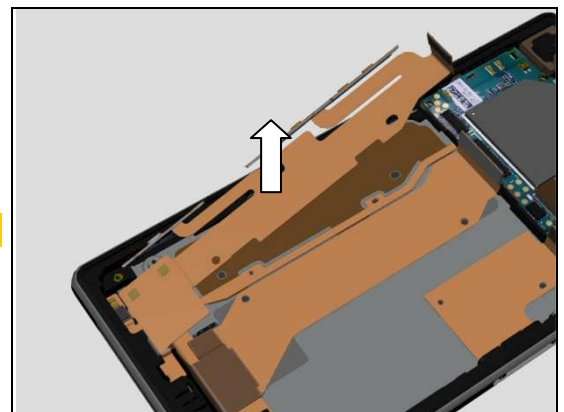


Release the side key FPC and camera key FPC by using Plastic Tweezers.



Detach the FPC Assy Relay/Side Key as shown in picture.

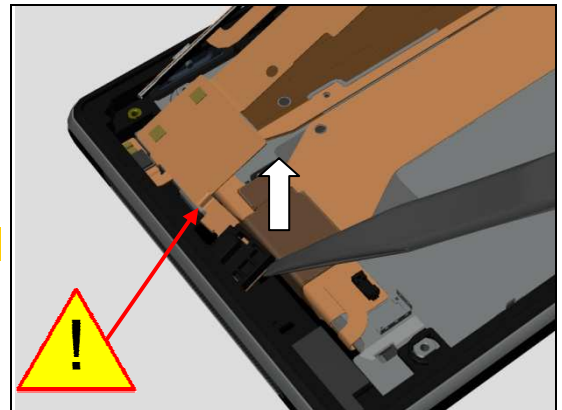
Do not damage and fold the FPC!



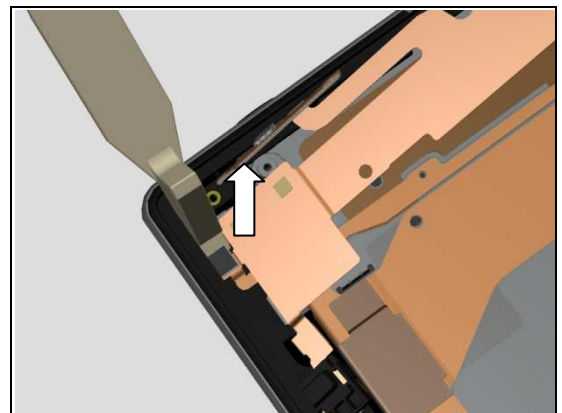
Disassembly

Release 1st MIC part of the FPC Assy Relay/Side Key as shown in picture.

Be careful! Do not break the FPC!

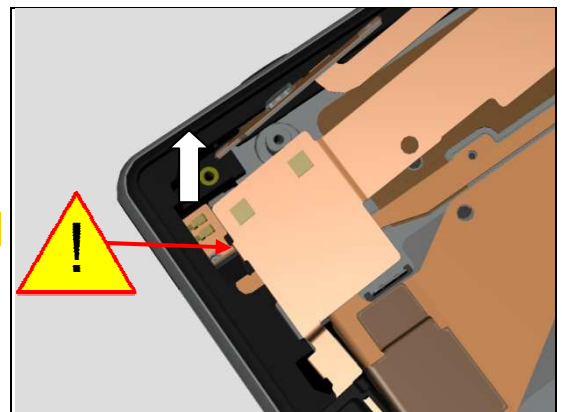


Disconnect RF connector of the FPC Assy 2nd Antenna.

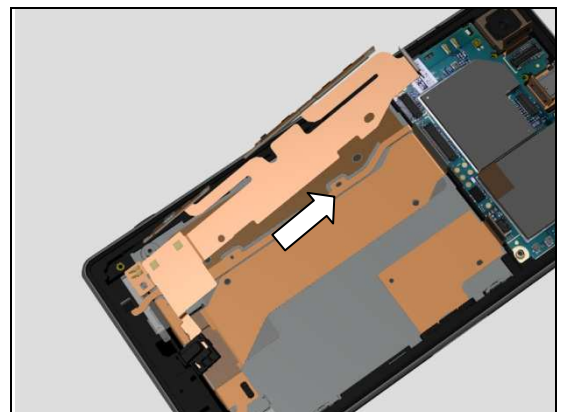


Detach RF connector part of the FPC Assy Relay/Side Key.

Be careful! Do not break the FPC!



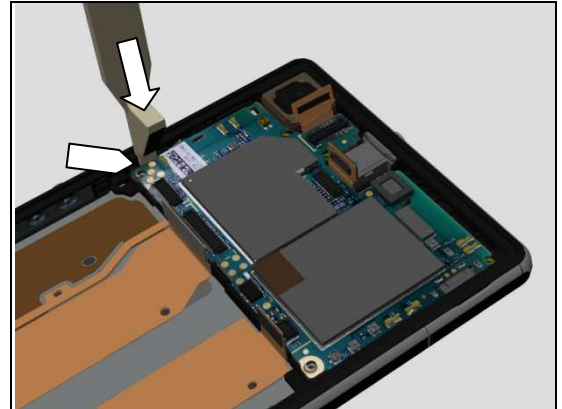
Remove the FPC Assy Relay/Side Key.



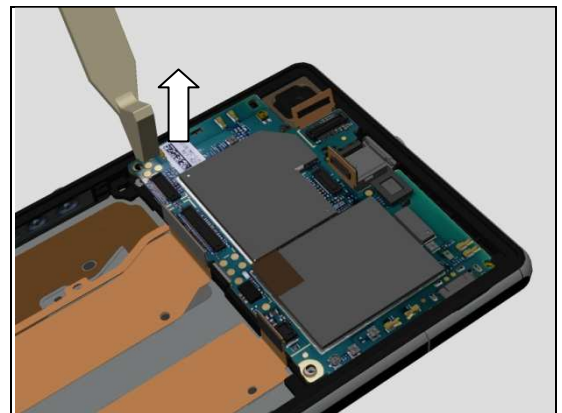
Disassembly

3.1.11 Main PBA & FPC Assy 2nd Antenna

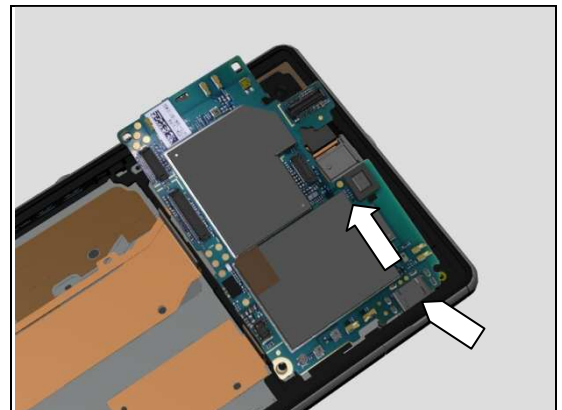
Insert the Front Opening Tool at this position as shown in picture.



Release the Main PBA.

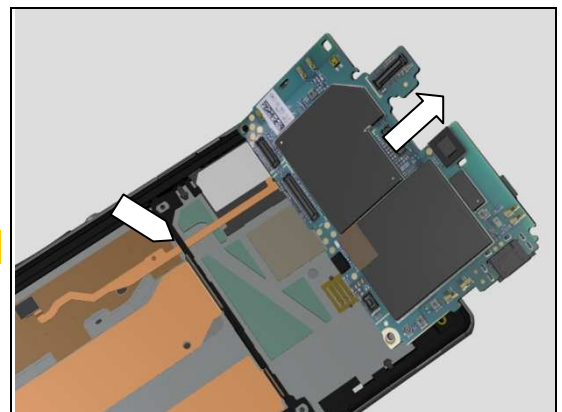


Move the Main PBA as shown in picture until the USB connector is visible.



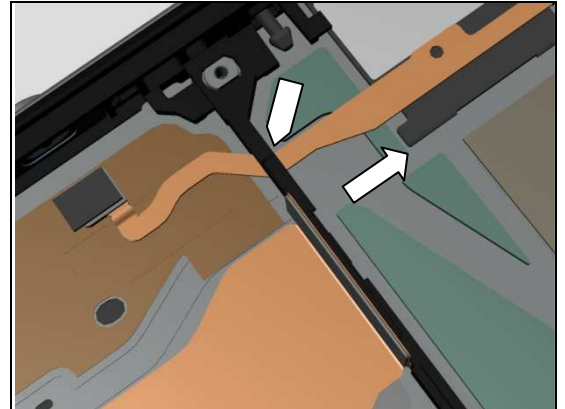
Lift up the Main PBA and carefully thread the FPC Assy 2nd Antenna through the hole as shown in picture.

Do not damage the FPC when threading!

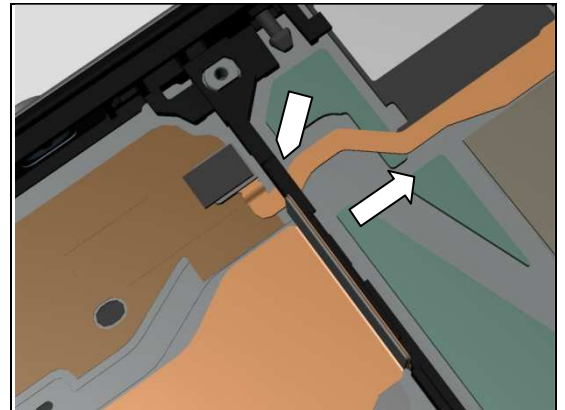


Disassembly

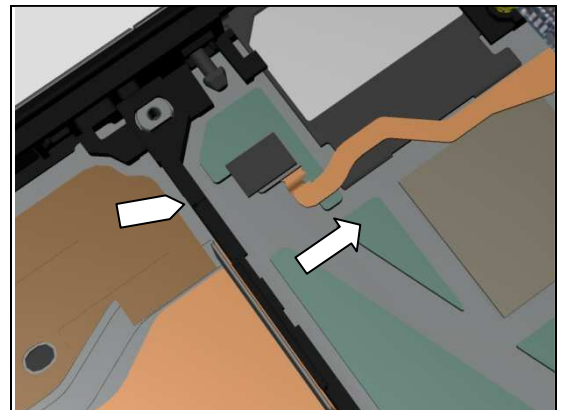
Continue threading as shown in picture.



Continue threading as shown in picture.

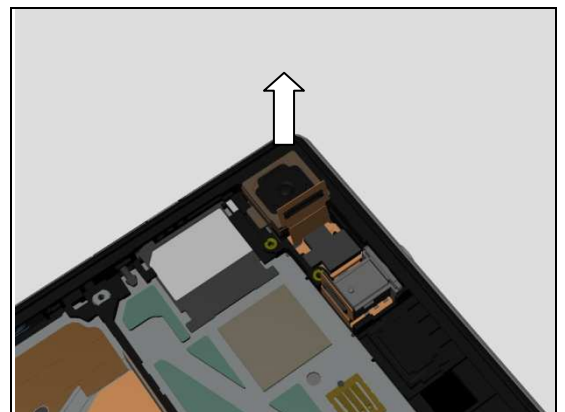


Continue threading as shown in picture.



3.1.12 Camera & Camera Holder (a) and Display Frame Assy (b)

Remove the Camera and its Camera Holder.

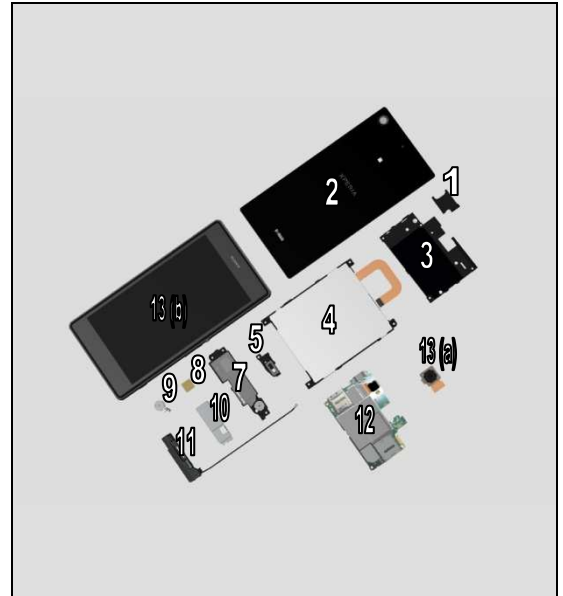


Disassembly

3.2 Disassembly-C6916 Specific

The C6916 disassembly is done in the following order:

1. SIM Tray
2. Window Back Sub Assy
3. Sub Antenna Assy
4. Battery
5. Holder FPC Assy Audio Jack
6. Disassemble RF Cable from Main PBA and Display Frame Assy
7. Speaker Sub Assy
8. Tape Vibrator Connector
9. Vibrator
10. Shield Can LCD Component
11. Main Antenna Assy & RF Cable & PBA Sub
12. Main PBA
13. Camera & Camera Holder (a) and Display Frame Assy (b)



Disassembly

3.2.1 SIM Tray

Open the Cap SIM.



Remove the SIM Tray with fingers.



Close the Cap SIM.



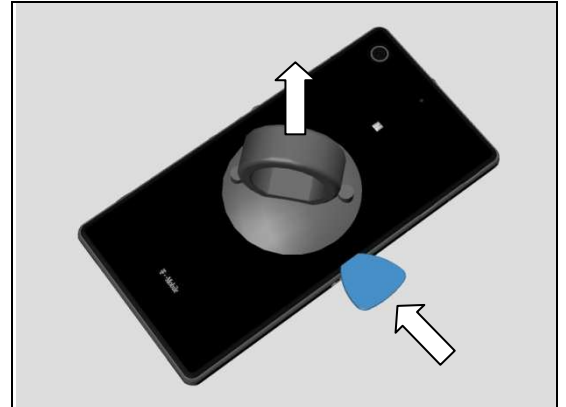
3.2.2 Window Back Sub Assy

Use Suction Cup to get space for inserting the Guitar Pick.



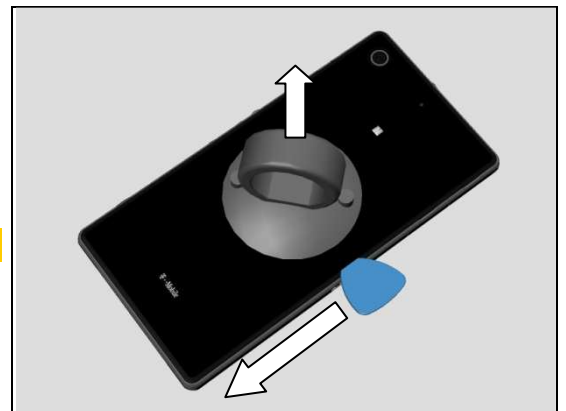
Disassembly

Insert the Guitar Pick.

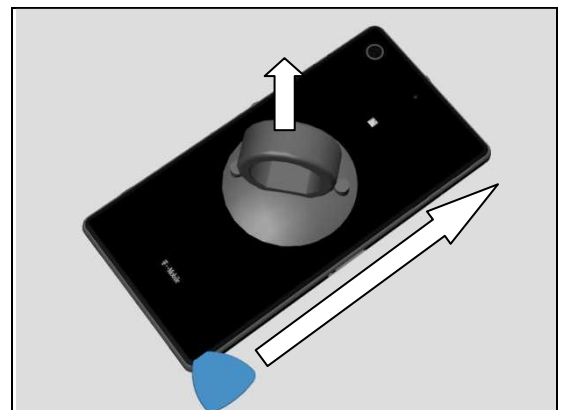


Gently slide the Guitar Pick along to release all sides of the Window Back Sub Assy.

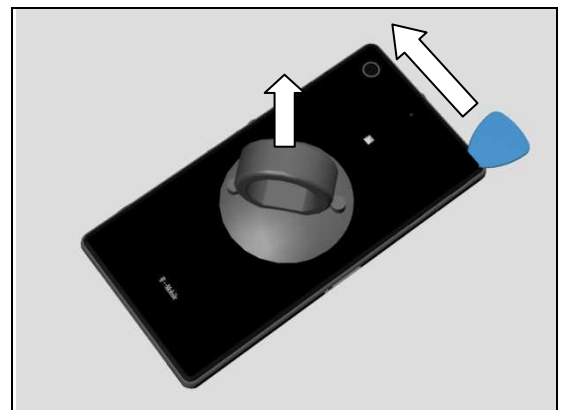
Note! Start in the middle of the right long side!



Do the same.

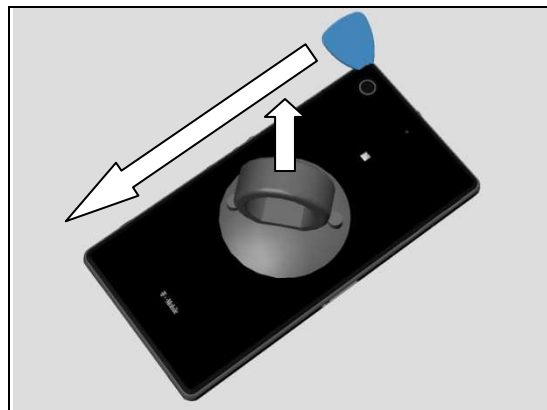


Do the same.

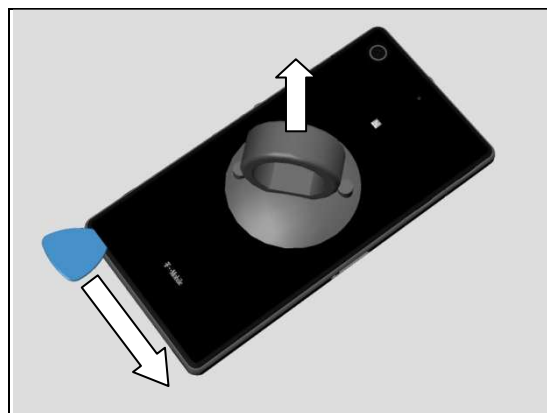


Disassembly

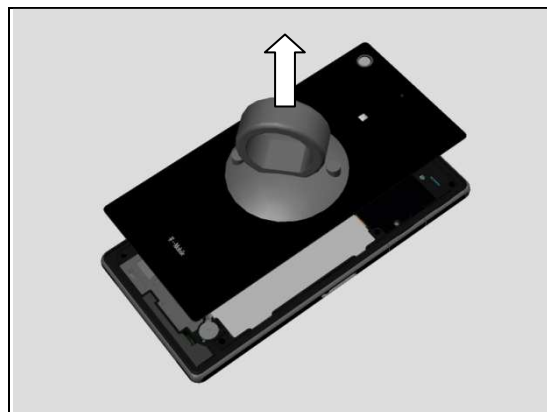
Do the same.



Do the same.

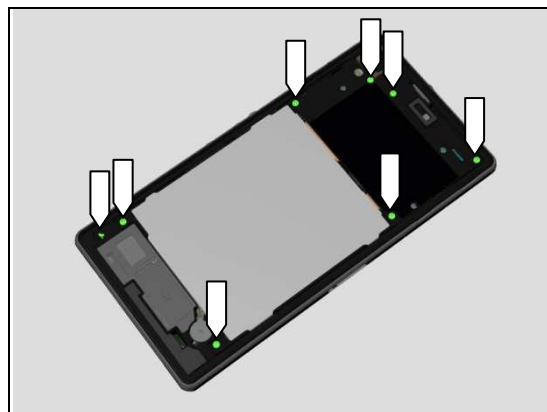


Remove the Window Back Sub Assy by using the Suction Cup.



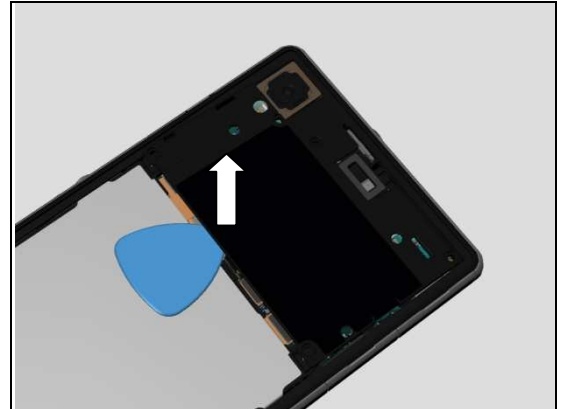
3.2.3 Sub Antenna Assy

Remove the eight Screw Other Len:4.0 Diam:1.4 by using a screwdriver with Torx Bits T4.



Disassembly

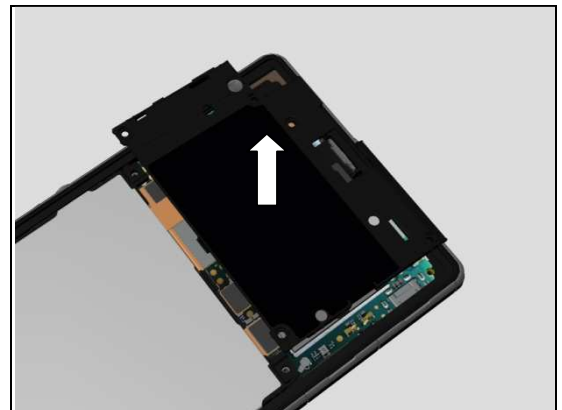
Release the hooks by using Guitar Pick and lift up the Sub Antenna Assy from bottom side.



Release top right side of the Sub Antenna Assy as shown in picture.



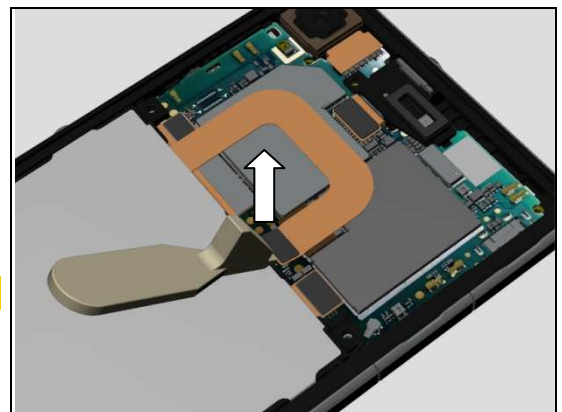
Remove the Sub Antenna Assy.



3.2.4 Battery

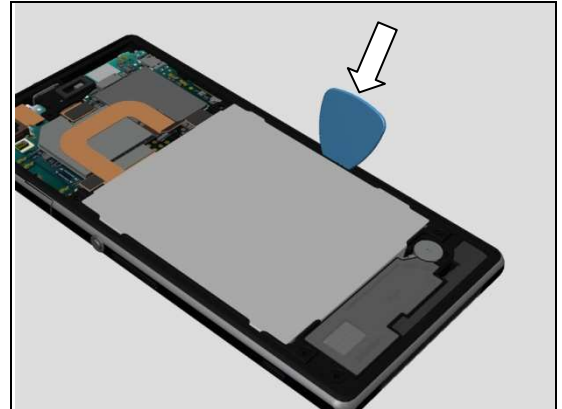
Disconnect the Battery FPC BtB connector by using the Front Opening Tool.

Do not damage components on the Main PBA!

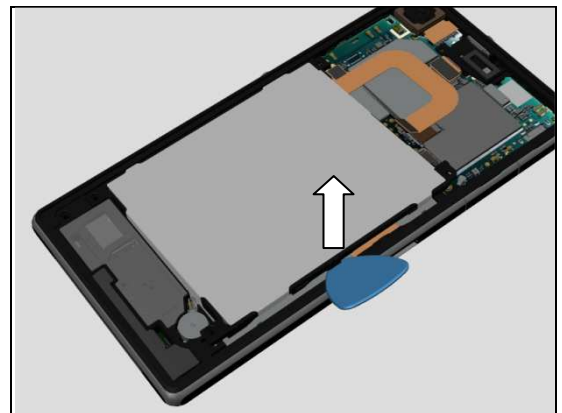


Disassembly

Insert Guitar Pick between the Battery and the Display Frame Assy.

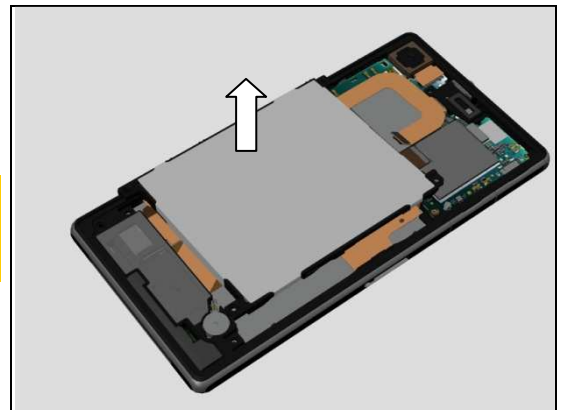


Gently release the Battery from its cavity.



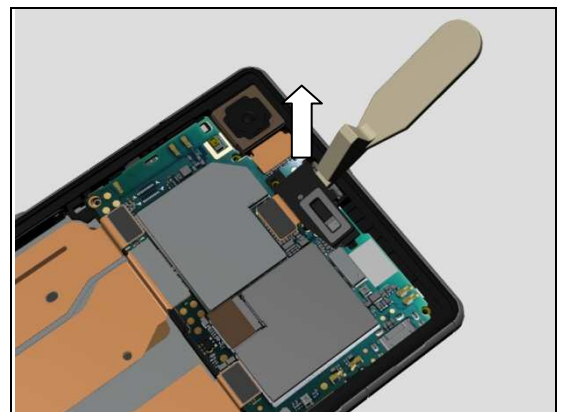
Remove the Battery.

**Carefully inspect the Battery after removing it.
Battery with visual signs of been punctured etc, then
should be scraped after removal!**



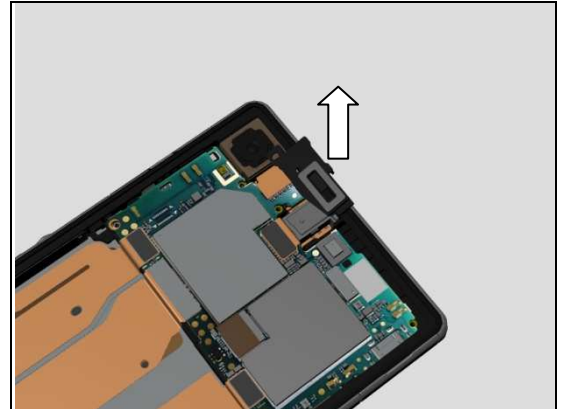
3.2.5 Holder FPC Assy Audio Jack

Unsnap the Holder FPC Assy Audio Jack by using the Front Opening Tool.



Disassembly

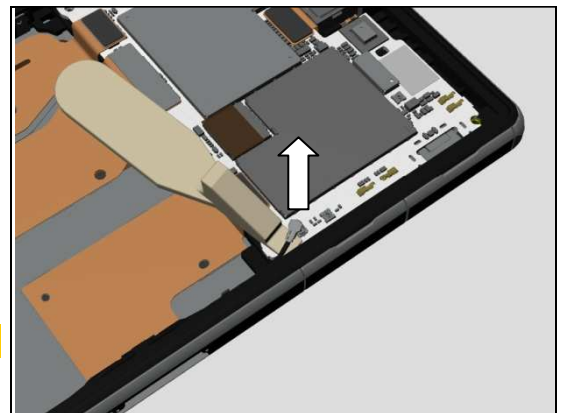
Remove it.



3.2.6 Disassemble RF Cable from Main PBA and Display Frame Assy

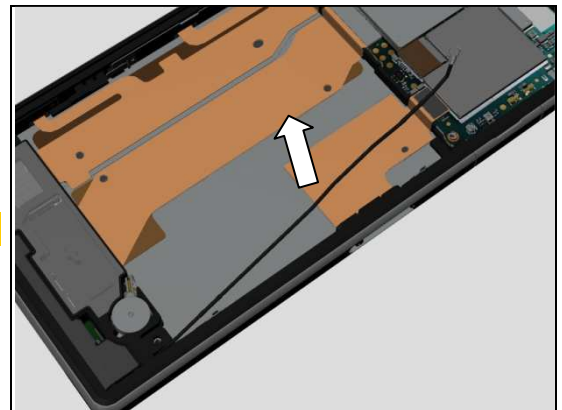
Disconnect RF Cable connector by using the Front Opening Tool.

Do not damage components on the Main PBA!



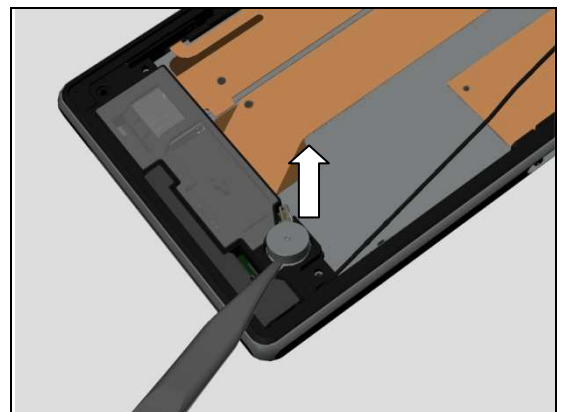
Release the RF cable from the Plate Contact RF A.

Do not stretch the RF Cable!



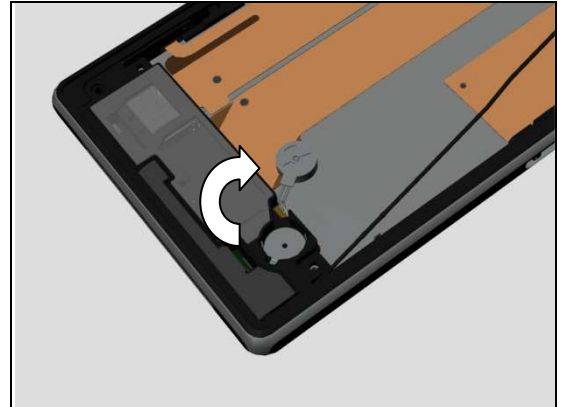
3.2.7 Speaker Sub Assy

Release the Vibrator by using the Plastic Tweezers.

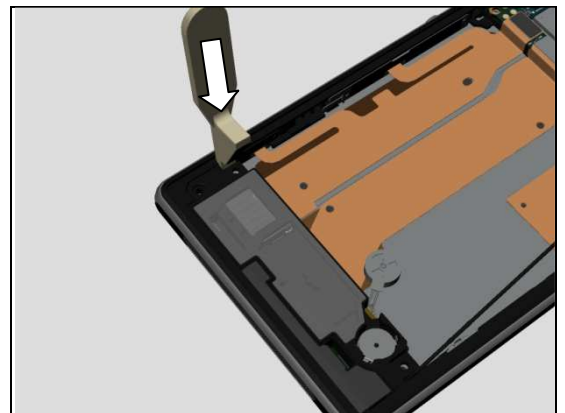


Disassembly

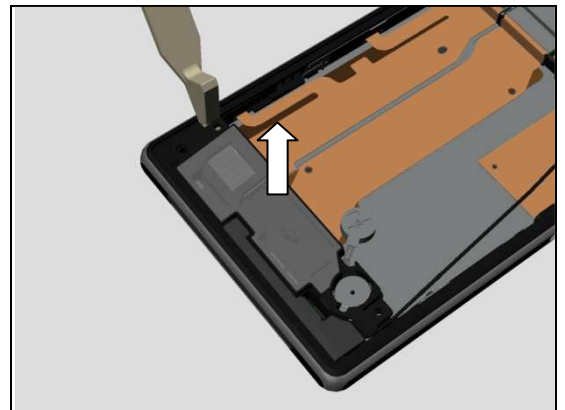
Rotate the Vibrator as shown in picture.



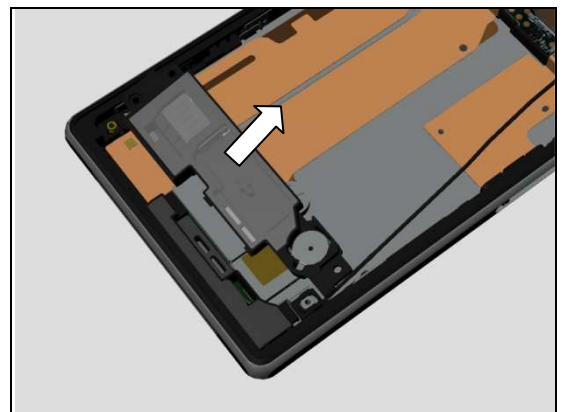
Insert Front Opening Tool between the Speaker Sub Assy and the Display Frame Assy.



Release the hooks of the Speaker Sub Assy.



Remove the Speaker Sub Assy.

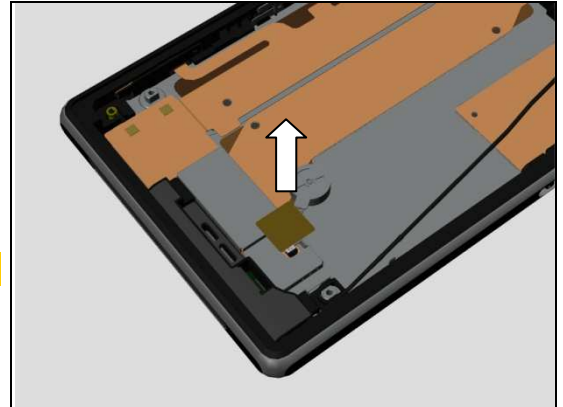


Disassembly

3.2.8 Tape Vibrator Connector

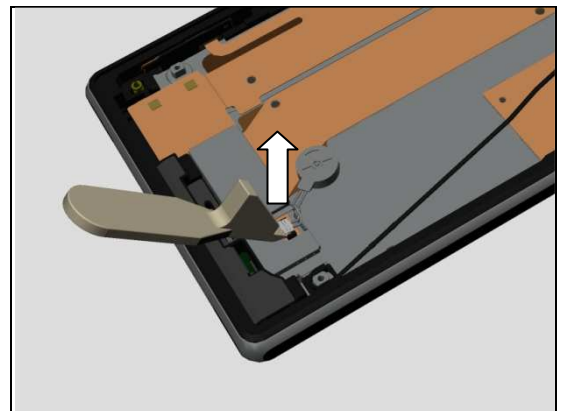
Detach the Tape Vibrator Connector.

Scrap! Not to be reused!

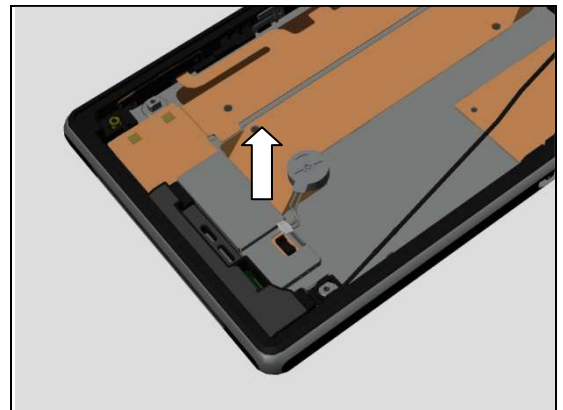


3.2.9 Vibrator

Disconnect Vibrator connector by using the Front Opening Tool.

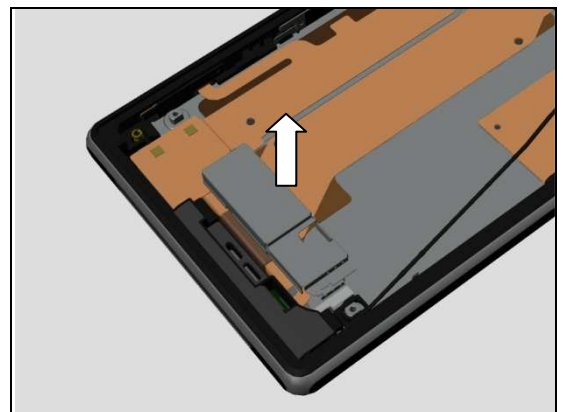


Remove the Vibrator.



3.2.10 Shield Can LCD Component

Detach and remove the Shield Can LCD Component.



Disassembly

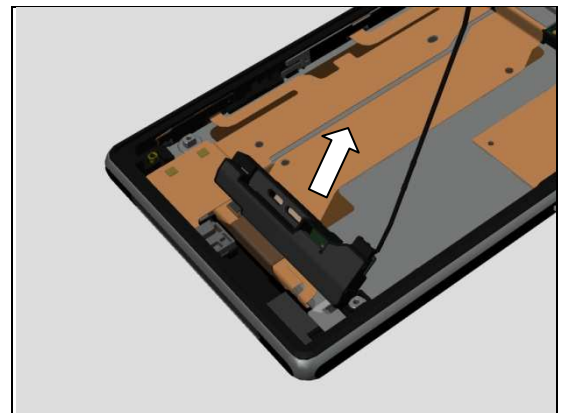
3.2.11 Main Antenna Assy & RF Cable & PBA Sub

Rotate the Main Antenna Assy as shown in picture.

Be careful! Press and hold down the Display FPC to avoid contact with the Main Antenna Assy when rotating.



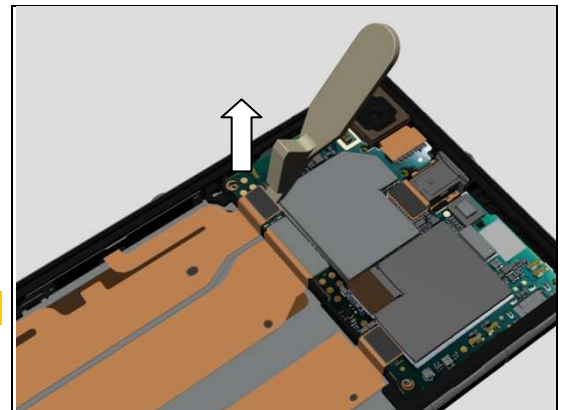
Remove the Main Antenna Assy.



3.2.12 Main PBA

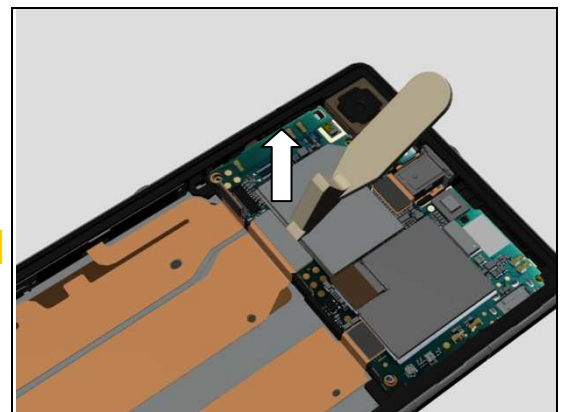
Disconnect BtB connector of the FPC Assy Relay/Side Key by using the Front Opening Tool.

Do not damage components on the Main PBA!



Disconnect BtB connector of the Display FPC by using the Front Opening Tool.

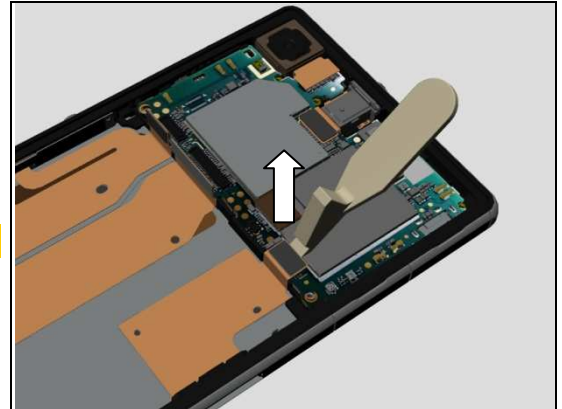
Do not damage components on the Main PBA!



Disassembly

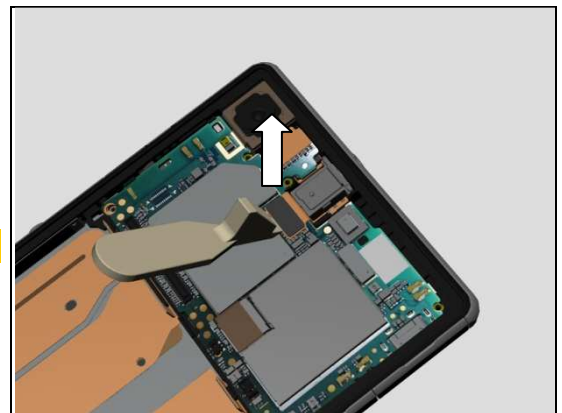
Disconnect BtB connector of the FPC Assy Charger Pad by using the Front Opening Tool.

Do not damage components on the Main PBA!



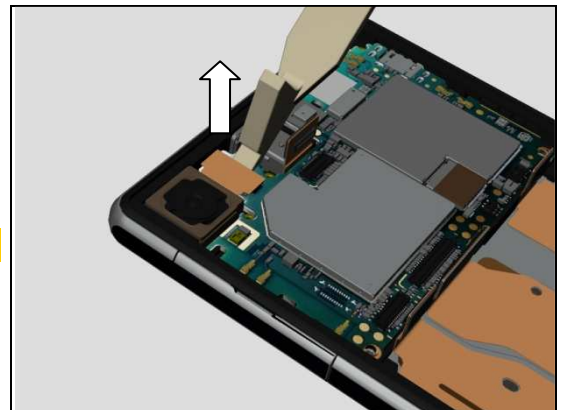
Disconnect BtB connector of the FPC Assy Audio Jack by using the Front Opening Tool.

Do not damage components on the Main PBA!

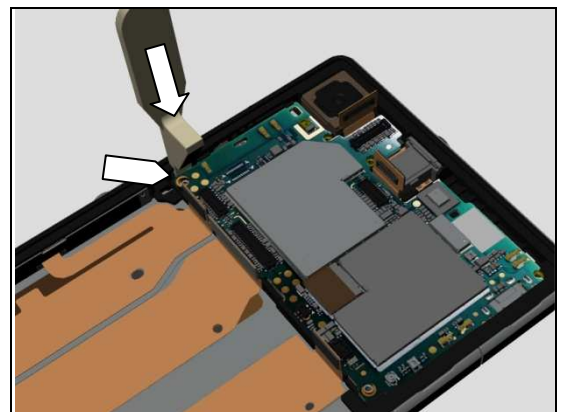


Disconnect BtB connector of the Camera FPC by using the Front Opening Tool.

Do not damage components on the Main PBA!

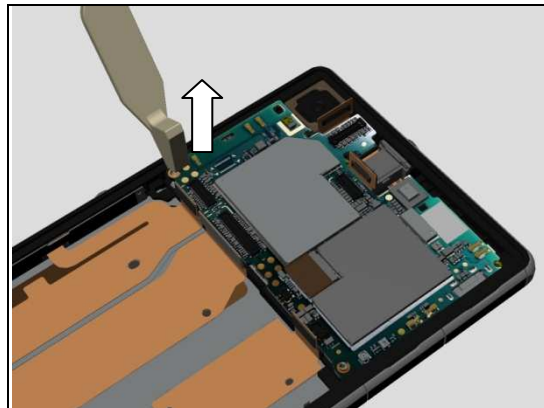


Insert the Front Opening Tool at this position as shown in picture.

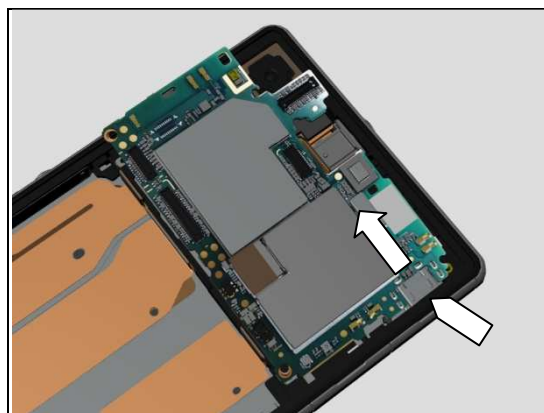


Disassembly

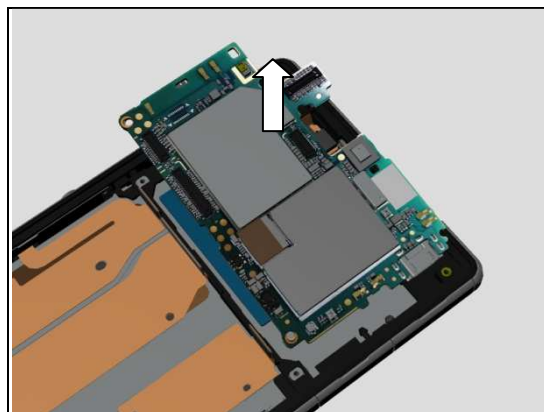
Release the Main PBA.



Move the Main PBA as shown in picture until the USB connector is visible.

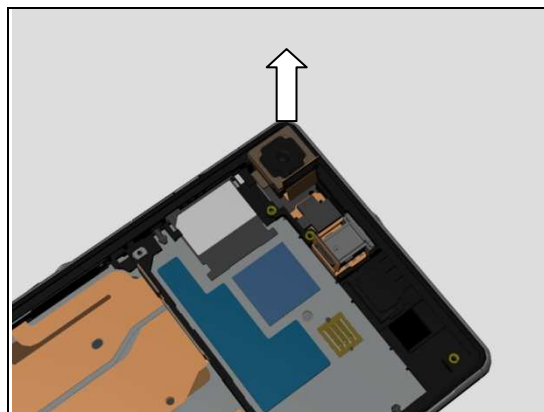


Remove the Main PBA.



3.2.13 Camera & Camera Holder (a) and Display Frame Assy (b)

Remove the Camera and its Camera Holder.



4 Replacement

4.1 Battery

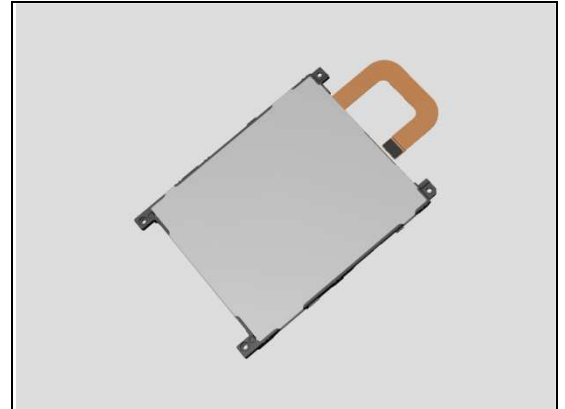
L39t/L39u Follow the 3.1.2 – 3.1.4 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.4 Disassembly instructions!

Prepare a new Battery.

L39t/L39u Follow the 5.1.9 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.10 – 5.2.12 Reassembly instructions!



4.2 Camera

L39t/L39u Follow the 3.1.1 – 3.1.12 Disassembly instructions!

C6916 Follow the 3.2.1 – 3.2.13 Disassembly instructions!

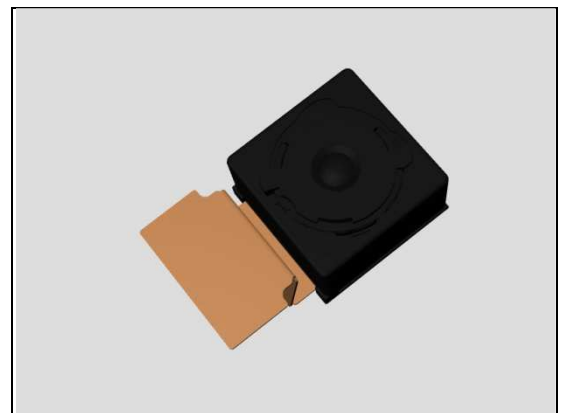
Follow the 4.29 Removal instructions!

Prepare a new Camera.

Follow the 4.29 Installation instructions!

L39t/L39u Follow the 5.1.1 – 5.1.12 Reassembly instructions!

C6916 Follow the 5.2.1 – 5.2.13 Reassembly instructions!



4.3 Display Frame Assy- L39t/L39u Specific

L39t/L39u Follow the 3.1.1 – 3.1.12 Disassembly instructions!

Follow the 4.47, 4.42 and 4.57 Removal instructions!

Prepare a new Display Frame Assy.

Follow the 4.42, 4.47 and 4.57 Installation instructions!

L39t/L39u Follow the 5.1.1 – 5.1.12 Reassembly instructions!

Touch panel calibration must be performed for all replaced units; 1257-2706 Trouble Shooting Application – mechanical.



4.4 Display Frame Assy- C6916 Specific

C6916 Follow the 3.2.1 – 3.2.13 Disassembly instructions!

Follow the 4.47, 4.42, 4.43 and 4.57 Removal instructions!

Prepare a new Display Frame Assy.

Follow the 4.42, 4.47, 4.43 and 4.57 Installation instructions!

C6916 Follow the 5.2.1 – 5.2.13 Reassembly instructions!

Touch panel calibration must be performed for all replaced units; 1257-2706 Trouble Shooting Application – mechanical.



Replacement

4.5 FPC Assy Relay/Side Key-L39t/L39u Specific

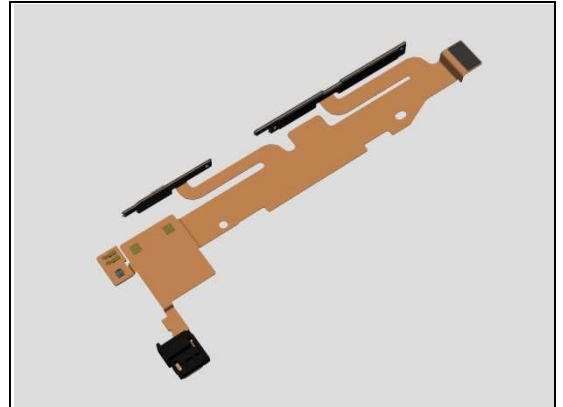
L39t/L39u Follow the 3.1.2 – 3.1.10 Disassembly instructions!

Prepare a new FPC Assy Relay/Side Key.

L39t/L39u Follow the 5.1.3 – 5.1.11 Reassembly instructions!

Scrap when the FPC is damage or folded!

Follow the 4.23 Removal and Installation instructions to replace a new Adhesive Relay FPC.



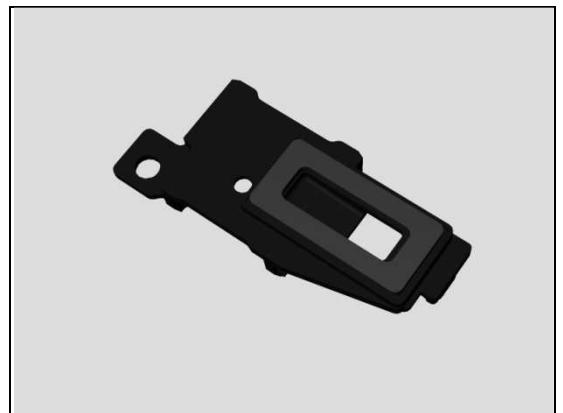
4.6 Holder FPC Assy Audio Jack-L39t/L39u Specific

L39t/L39u Follow the 3.1.2 – 3.1.5 Disassembly instructions!

Prepare a new Holder FPC Assy Audio Jack.

Follow the 4.46 Installation instructions!

L39t/L39u Follow the 5.1.8 – 5.1.11 Reassembly instructions!

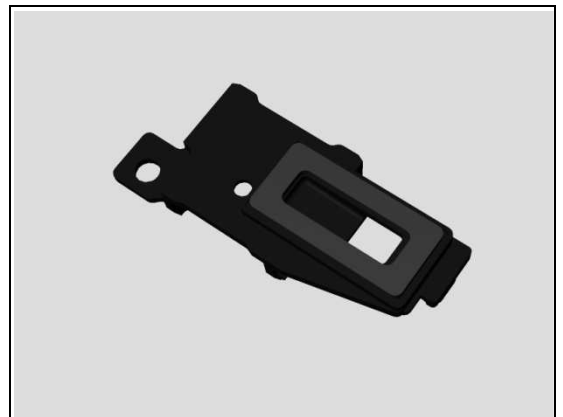


4.7 Holder FPC Assy Audio Jack-C6916 Specific

C6916 Follow the 3.2.2 – 3.2.5 Disassembly instructions!

Prepare a new Holder FPC Assy Audio Jack.

C6916 Follow the 5.2.9– 5.2.12 Reassembly instructions!



4.8 Main Antenna Assy-C6916 Specific

C6916 Follow the 3.2.2 – 3.2.11 Disassembly instructions!

Follow the 4.52 and 4.55 Removal instructions!

Prepare a new Main Antenna Assy.

Follow the 4.55 and 4.52 Installation instructions!

C6916 Follow the 5.2.3 – 5.2.12 Reassembly instructions!



Replacement

4.9 Main Antenna Speaker Sub Assy- L39t/L39u Specific

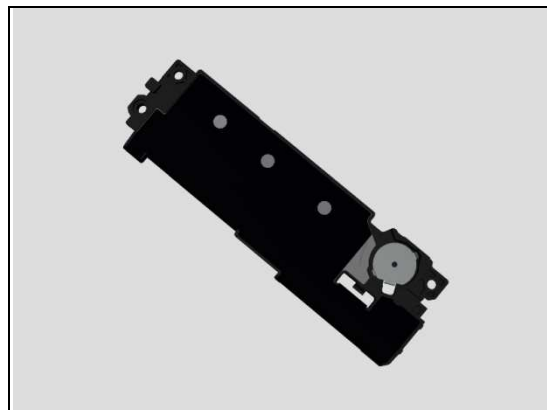
L39t/L39u Follow the 3.1.2 – 3.1.6 Disassembly instructions!

Follow the 4.51 and 4.55 Removal instructions!

Prepare a new Main Antenna Speaker Sub Assy.

Follow the 4.55 and 4.51 Installation instructions!

L39t/L39u Follow the 5.1.7 – 5.1.11 Reassembly instructions!



4.10 Shield Can LCD Component

L39t/L39u Follow the 3.1.2 – 3.1.9 Disassembly instructions!

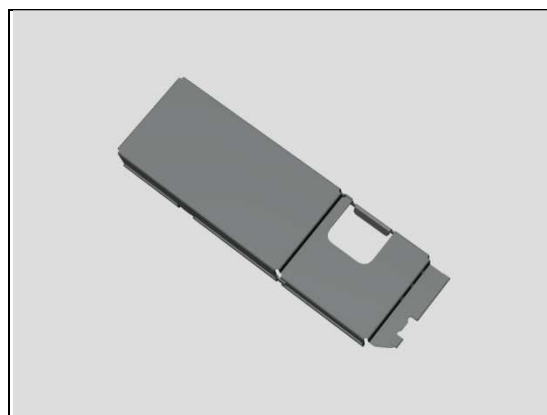
C6916 Follow the 3.2.2 – 3.2.10 Disassembly instructions!

Prepare a new Shield Can LCD Component.

L39t/L39u Follow the 4.39 Installation instructions! (not applicable for C6916)

L39t/L39u Follow the 5.1.4 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.4 – 5.2.12 Reassembly instructions!



4.11 SIM Tray

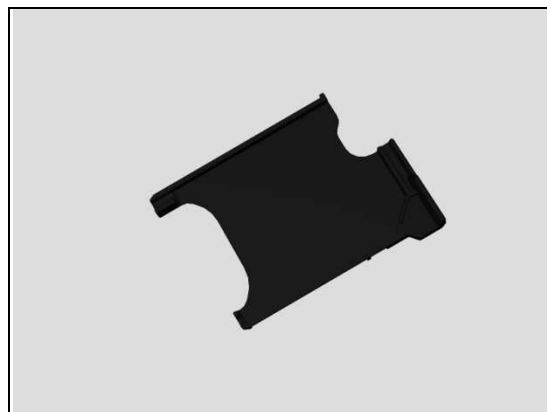
L39t/L39u Follow the 3.1.1 Disassembly instructions!

C6916 Follow the 3.2.1 Disassembly instructions!

Prepare a new SIM Tray.

L39t/L39u Follow the 5.1.12 Reassembly instructions!

C6916 Follow the 5.2.13 Reassembly instructions!

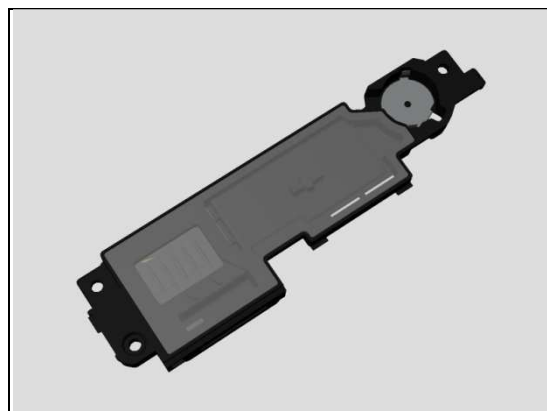


4.12 Speaker Sub Assy- C6916 Specific

C6916 Follow the 3.2.2 – 3.2.7 Disassembly instructions!

Prepare a new Speaker Sub Assy.

C6916 Follow the 5.2.7 – 5.2.12 Reassembly instructions!



Replacement

4.13 Sub Antenna Assy

L39t/L39u Follow the 3.1.2 – 3.1.3 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.3 Disassembly instructions!

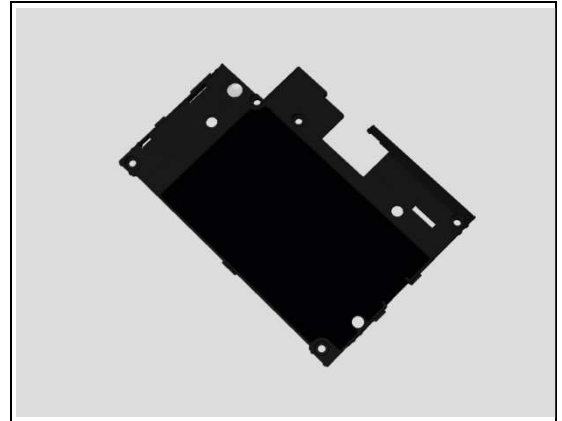
L39t/L39u Follow the 4.53 Removal instructions! (not applicable for C6916)

Prepare a new Sub Antenna Assy.

L39t/L39u Follow the 4.53 Installation instructions! (not applicable for C6916)

L39t/L39u Follow the 5.1.10 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.11 – 5.2.12 Reassembly instructions!



4.14 Tape Vibrator Connector

L39t/L39u Follow the 3.1.2 – 3.1.7 Disassembly instructions!

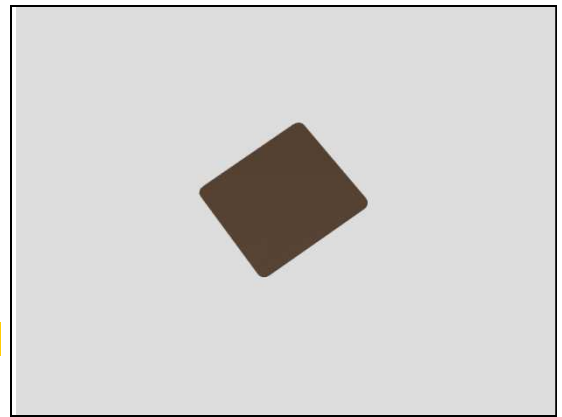
C6916 Follow the 3.2.2 – 3.2.8 Disassembly instructions!

Prepare a new Tape Vibrator Connector.

L39t/L39u Follow the 5.1.6 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.6 – 5.2.12 Reassembly instructions!

Scrap! Not to be reused!



4.15 Vibrator

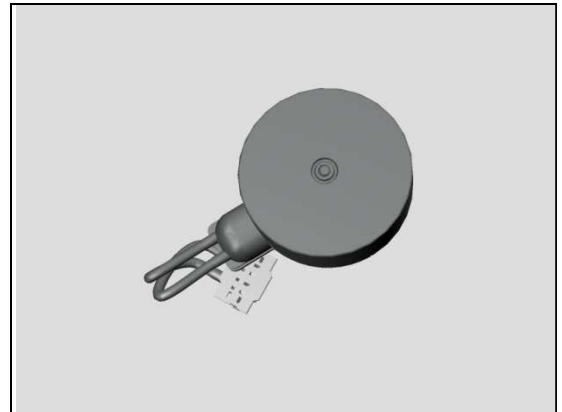
L39t/L39u Follow the 3.1.2 – 3.1.8 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.9 Disassembly instructions!

Prepare a new Vibrator.

L39t/L39u Follow the 5.1.5 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.5 – 5.2.12 Reassembly instructions!



4.16 Window Back Sub Assy

L39t/L39u Follow the 3.1.2 Disassembly instructions!

C6916 Follow the 3.2.2 Disassembly instructions!

Prepare a new Window Back Sub Assy.

L39t/L39u Follow the 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.12 Reassembly instructions!



Replacement

4.17 Adhesive Camera Key FPC Left

L39t/L39u Follow the 3.1.2 – 3.1.10 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.11 Disassembly instructions!

*C6916 Follow the 4.43 Removal instructions! (**not applicable for L39t/L39u**)*

Prepare a new Adhesive Camera Key FPC Left.

*C6916 Follow the 4.43 Installation instructions! (**not applicable for L39t/L39u**)*

L39t/L39u Follow the 5.1.3 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.3 – 5.2.12 Reassembly instructions!

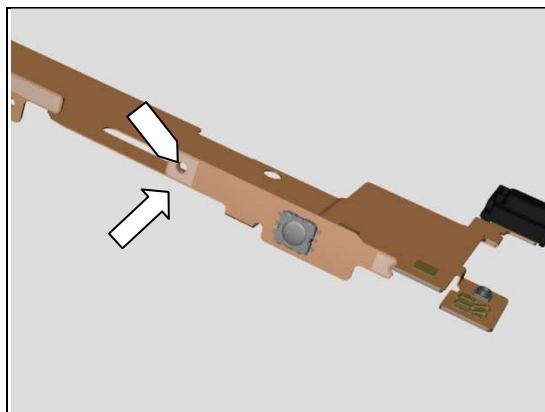
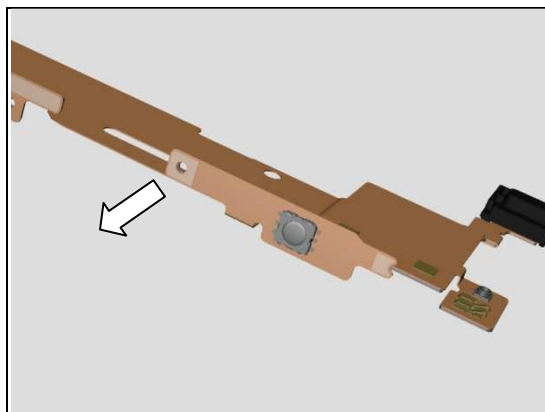
REMOVAL

Detach the Adhesive Camera Key FPC Left and remove it with a pair of Plastic Tweezers.

Scrap! Not to be reused!

INSTALLATION

Attach a new Adhesive Camera Key FPC Left aligning with the guiding hole by using a pair of Plastic Tweezers as shown in picture.



Replacement

4.18 Adhesive Camera Key FPC Right

L39t/L39u Follow the 3.1.2 – 3.1.10 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.11 Disassembly instructions!

*C6916 Follow the 4.43 Removal instructions! (**not applicable for L39t/L39u**)*

Prepare a new Adhesive Camera Key FPC Right.

*C6916 Follow the 4.43 Installation instructions! (**not applicable for L39t/L39u**)*

L39t/L39u Follow the 5.1.3 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.3 – 5.2.12 Reassembly instructions!

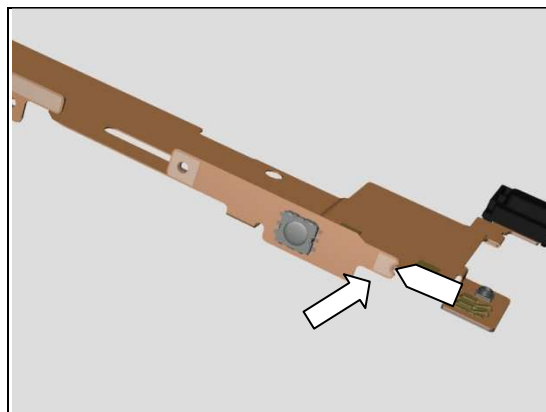
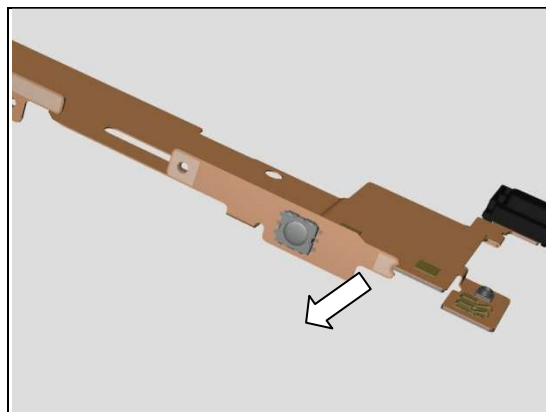
REMOVAL

Detach the Adhesive Camera Key FPC Right and remove it with a pair of Plastic Tweezers.

Scrap! Not to be reused!

INSTALLATION

Attach a new 2nd MIC Mesh in its proper position by using a pair of Plastic Tweezers as shown in picture.



Replacement

4.19 Adhesive Display FPC

L39t/L39u Follow the 3.1.2 – 3.1.10 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.11 Disassembly instructions!

*C6916 Follow the 4.43 Removal instructions! (**not applicable for L39t/L39u**)*

Prepare a new Adhesive Display FPC.

*C6916 Follow the 4.43 Installation instructions! (**not applicable for L39t/L39u**)*

L39t/L39u Follow the 5.1.3 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.3 – 5.2.12 Reassembly instructions!



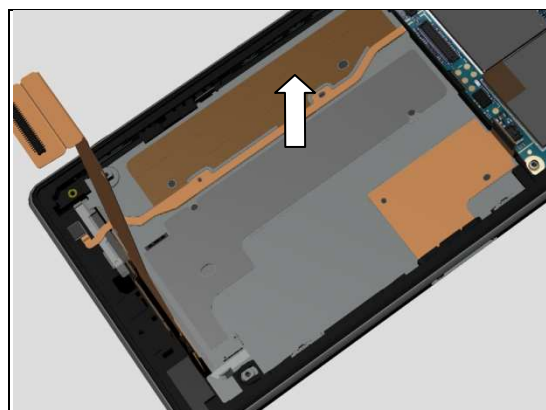
REMOVAL

Disconnect BtB connector of the Display FPC, and then detach the Display FPC with fingers.

Remove the Adhesive Display FPC by using a pair of Plastic Tweezers.

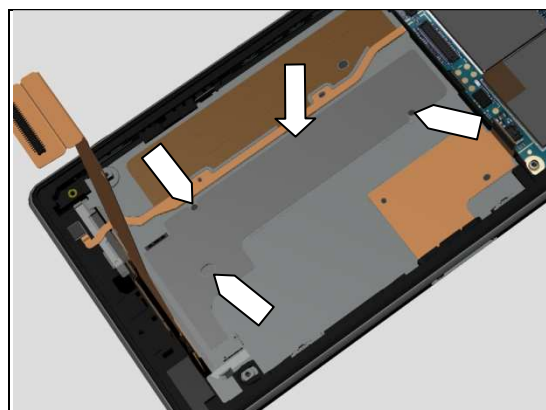
Scrap! Not to be reused!

Make sure all remaining adhesive residue have been removed!



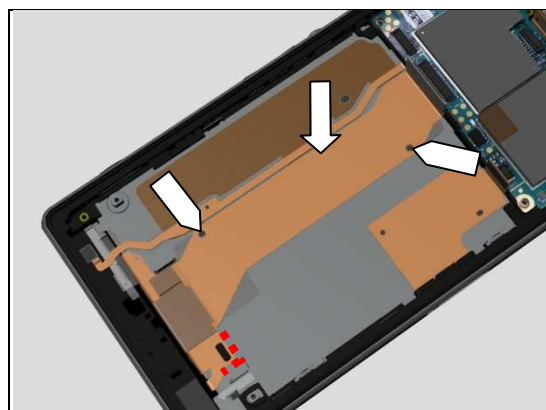
INSTALLATION

Attach a new Adhesive Display FPC aligning with the 3 guiding holes as shown in picture by using a pair of Plastic Tweezers.



Attach the Display FPC aligning with the 2 guiding holes and 2 guiding lines as shown in picture.

Press to snap the Display FPC BtB connector.



Replacement

4.20 Adhesive Relay FPC Bottom-C6916 Specific

C6916 Follow the 3.2.2 – 3.2.11 Disassembly instructions!

Follow the 4.43 Removal instructions!

Prepare a new Adhesive Relay FPC Bottom.

Follow the 4.43 Installation instructions!

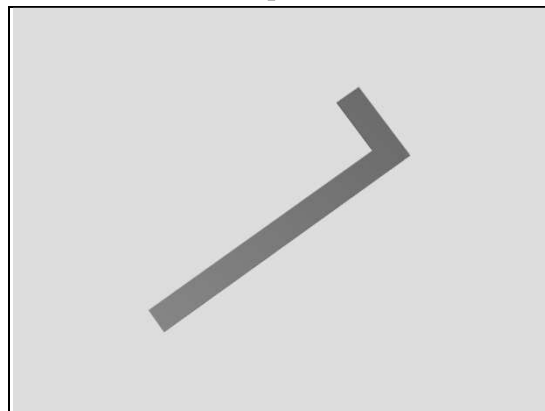
C6916 Follow the 5.2.3 – 5.2.12 Reassembly instructions!

REMOVAL

Detach the Adhesive Relay FPC Bottom and remove it with a pair of Plastic Tweezers.

Scrap! Not to be reused!

Make sure all remaining adhesive residue have been removed!



INSTALLATION

Attach a new Adhesive Relay FPC Bottom in its proper position by using a pair of Plastic Tweezers as shown in picture.



Replacement:

4.21 Adhesive Relay FPC RF Conn-L39t/L39u Specific

L39t/L39u Follow the 3.1.2 – 3.1.10 Disassembly instructions!

Prepare a new Adhesive Relay FPC RF Conn.

L39t/L39u Follow the 5.1.3 – 5.1.11 Reassembly instructions!

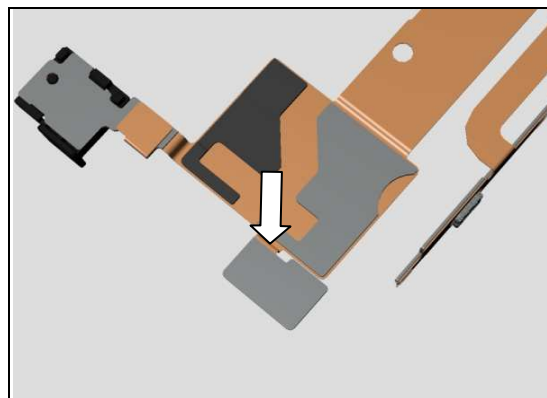
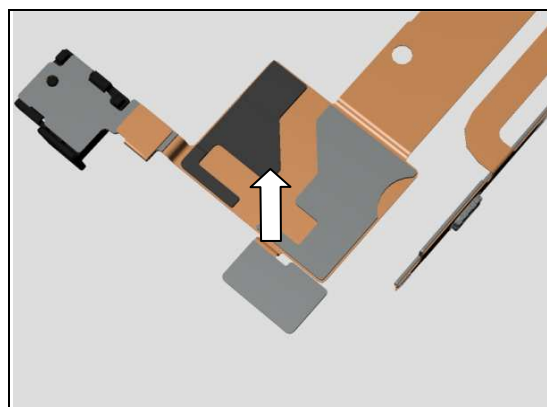
REMOVAL

Detach the Adhesive Relay FPC RF Conn and remove it with a pair of Plastic Tweezers.

Scrap! Not to be reused!

Make sure all remaining adhesive residue have been removed!

Do not damage the components on the back side!



INSTALLATION

Attach a new Adhesive Relay FPC RF Conn in its proper position by using a pair of Plastic Tweezers as shown in picture.

Replacement

4.22 Adhesive Relay FPC Support -L39t/L39u Specific

L39t/L39u Follow the 3.1.2 – 3.1.10 Disassembly instructions!

Prepare a new Adhesive Relay FPC Support.

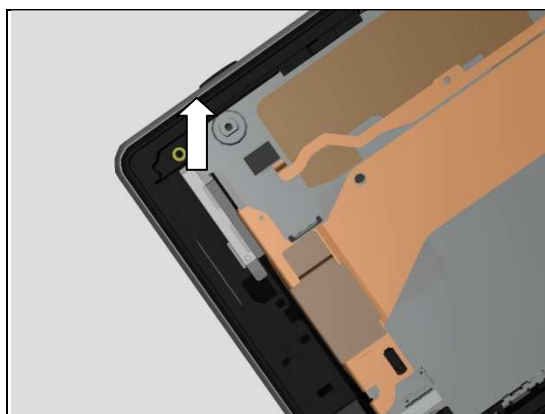
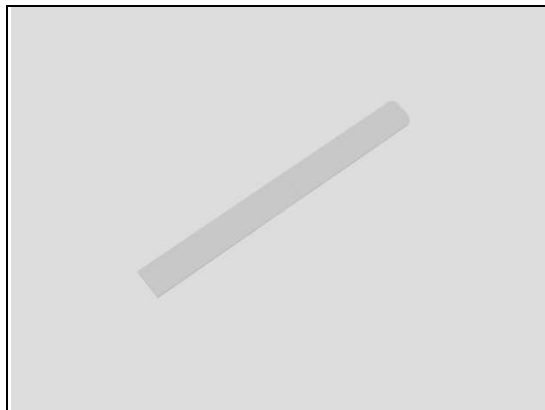
L39t/L39u Follow the 5.1.3 – 5.1.11 Reassembly instructions!

REMOVAL

Detach the Adhesive Relay FPC Support and remove it with a pair of Plastic Tweezers.

Scrap! Not to be reused!

Make sure all remaining adhesive residue have been removed!



INSTALLATION

Attach a new Adhesive Relay FPC Support in its proper position by using a pair of Plastic Tweezers as shown in picture.



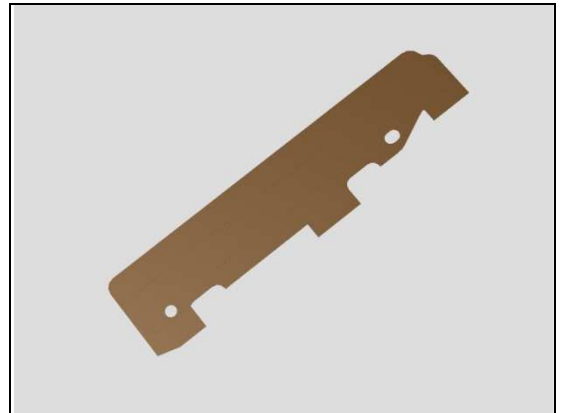
Replacement

4.23 Adhesive Relay FPC-L39t/L39u Specific

L39t/L39u Follow the 3.1.1 – 3.1.11 Disassembly instructions!

Prepare a new Adhesive Relay FPC.

L39t/L39u Follow the 5.1.2 – 5.1.12 Reassembly instructions!

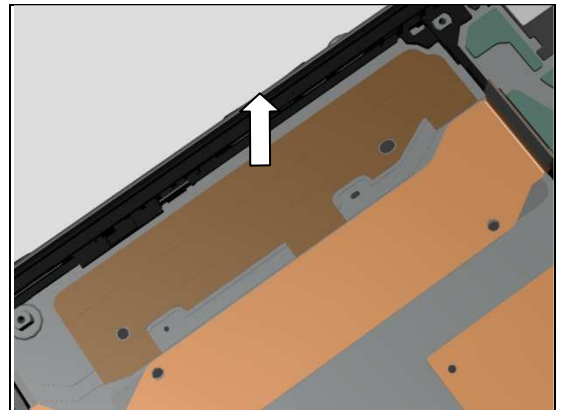


REMOVAL

Remove the Adhesive Relay FPC by using a pair of Plastic Tweezers.

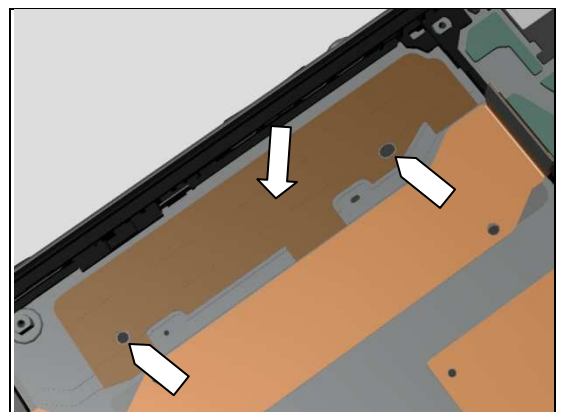
Scrap! Not to be reused!

Make sure all remaining adhesive residue have been removed!



INSTALLATION

Attach a new Adhesive Relay FPC aligning with the 2 guiding holes as shown in picture by using a pair of Plastic Tweezers.



Replacement

4.24 Adhesive Relay FPC-C6916 Specific

C6916 Follow the 3.2.2 – 3.2.11 Disassembly instructions!

Follow the 4.43 Removal instructions!

Prepare a new Adhesive Relay FPC.

Follow the 4.43 Installation instructions!

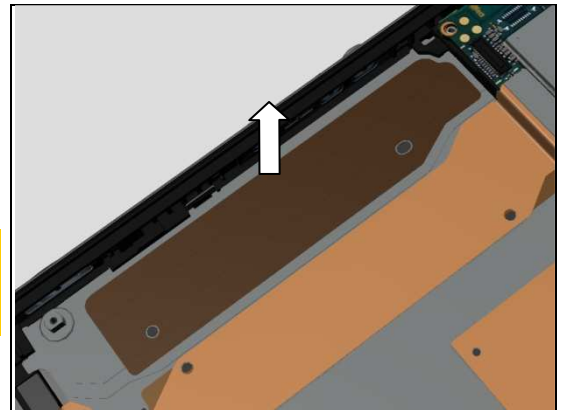
C6916 Follow the 5.2.3 – 5.2.12 Reassembly instructions!

REMOVAL

Remove the Adhesive Relay FPC by using a pair of Plastic Tweezers.

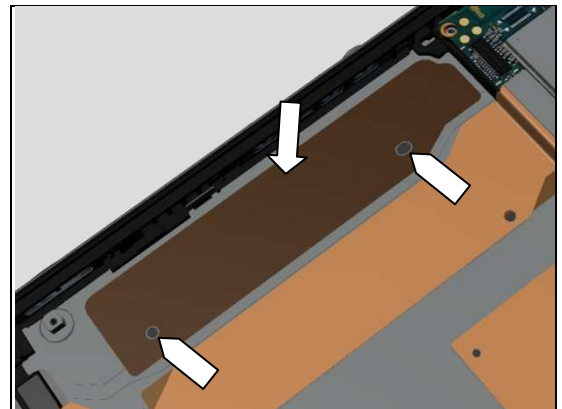
Scrap! Not to be reused!

Make sure all remaining adhesive residue have been removed!



INSTALLATION

Attach a new Adhesive Relay FPC aligning with the 2 guiding holes as shown in picture by using a pair of Plastic Tweezers.



Replacement

4.25 Adhesive Shield Can LCD Component

L39t/L39u Follow the 3.1.2 – 3.1.9 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.10 Disassembly instructions!

Prepare a new Adhesive Shield Can LCD Component.

L39t/L39u Follow the 5.1.4 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.4 – 5.2.12 Reassembly instructions!

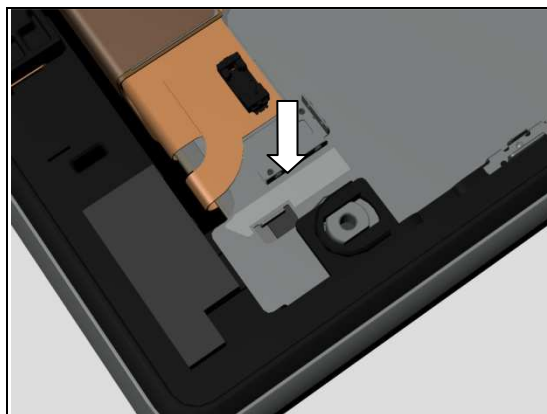
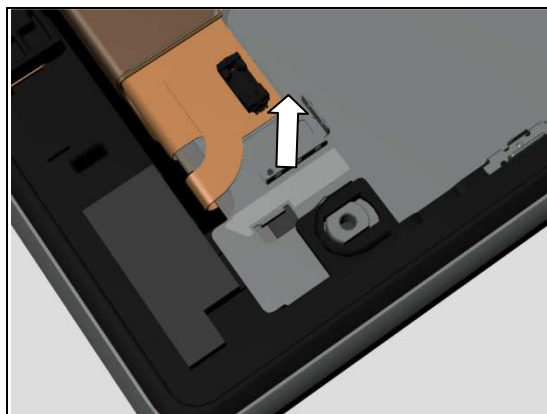
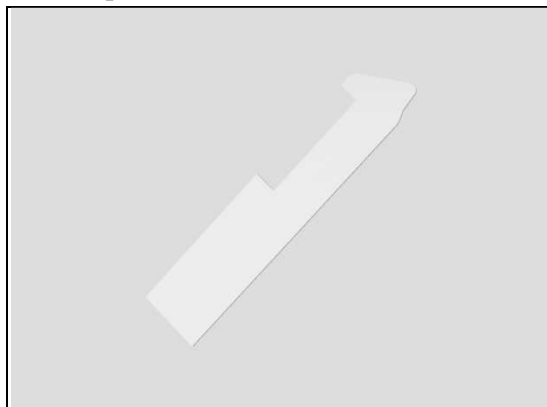
REMOVAL

Detach the Adhesive Shield Can LCD Component and remove it with a pair of Plastic Tweezers.

Scrap! Not to be reused!

INSTALLATION

Attach a new Adhesive Shield Can LCD Component in its proper position by using a pair of Plastic Tweezers as shown in picture.



Replacement

4.26 Adhesive Volume Key FPC Left

L39t/L39u Follow the 3.1.2 – 3.1.10 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.11 Disassembly instructions!

*C6916 Follow the 4.43 Removal instructions! (**not applicable for L39t/L39u**)*

Prepare a new Adhesive Volume Key FPC Left.

*C6916 Follow the 4.43 Installation instructions! (**not applicable for L39t/L39u**)*

L39t/L39u Follow the 5.1.3 – 5.1.11 Reassembly instructions!

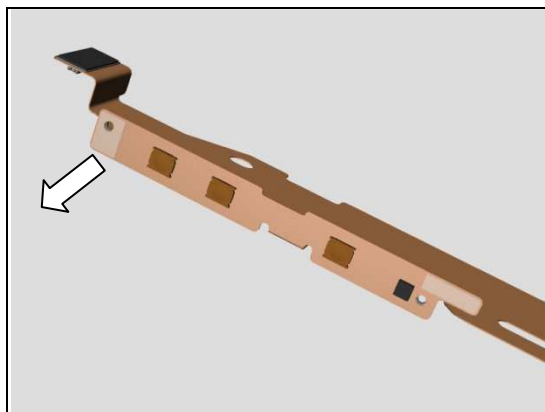
C6916 Follow the 5.2.3 – 5.2.12 Reassembly instructions!



REMOVAL

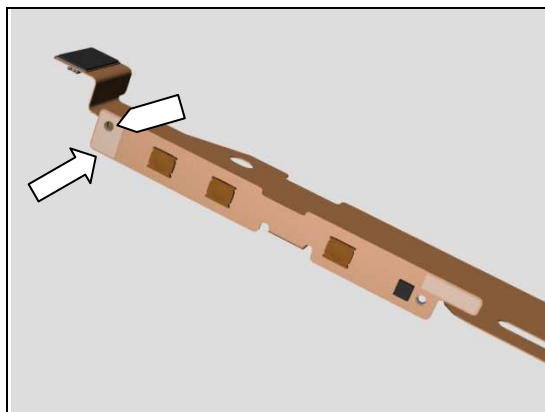
Detach the Adhesive Volume Key FPC Left and remove it with a pair of Plastic Tweezers.

Scrap! Not to be reused!



INSTALLATION

Attach a new Adhesive Volume Key FPC Left aligning with the guiding hole by using a pair of Plastic Tweezers as shown in picture.



Replacement

4.27 Adhesive Volume Key FPC Right

L39t/L39u Follow the 3.1.2 – 3.1.10 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.11 Disassembly instructions!

*C6916 Follow the 4.43 Removal instructions! (**not applicable for L39t/L39u**)*

Prepare a new Adhesive Volume Key FPC Right.

*C6916 Follow the 4.43 Installation instructions! (**not applicable for L39t/L39u**)*

L39t/L39u Follow the 5.1.3 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.3 – 5.2.12 Reassembly instructions!

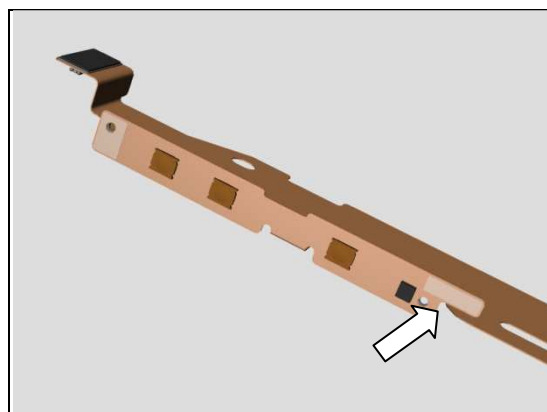
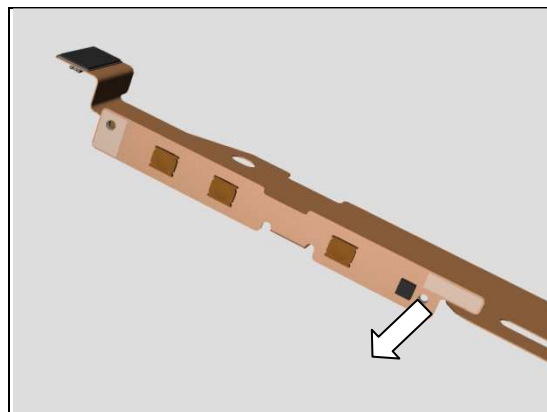
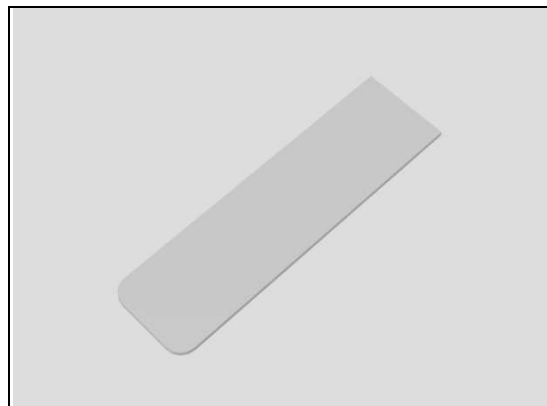
REMOVAL

Detach the Adhesive Volume Key FPC Right and remove it with a pair of Plastic Tweezers.

Scrap! Not to be reused!

INSTALLATION

Attach a new Adhesive Volume Key FPC Right in its proper position by using a pair of Plastic Tweezers as shown in picture.



Replacement

4.28 Adhesive Window Back

L39t/L39u Follow the 3.1.2 Disassembly instructions!

C6916 Follow the 3.2.2 Disassembly instructions!

Prepare a new Adhesive Window Back.

L39t/L39u Follow the 5.1.11 Reassembly instructions!

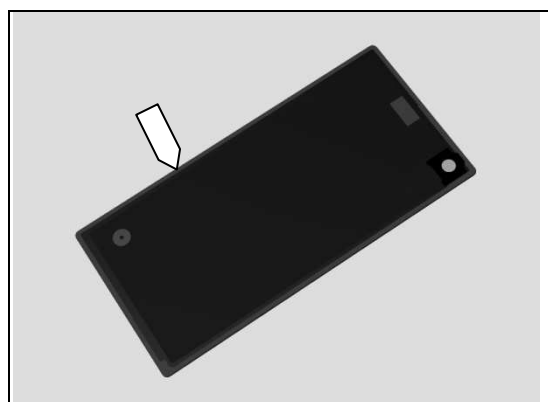
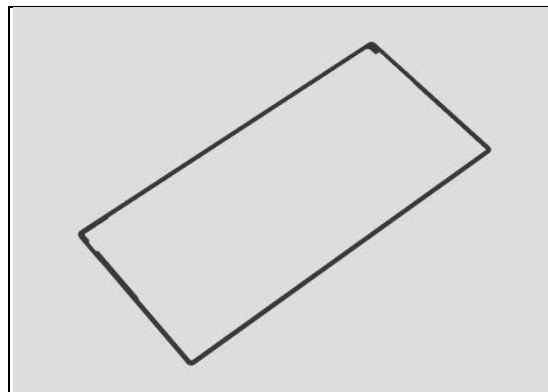
C6916 Follow the 5.2.12 Reassembly instructions!

REMOVAL

Detach to remove the Adhesive Window Back with fingers.

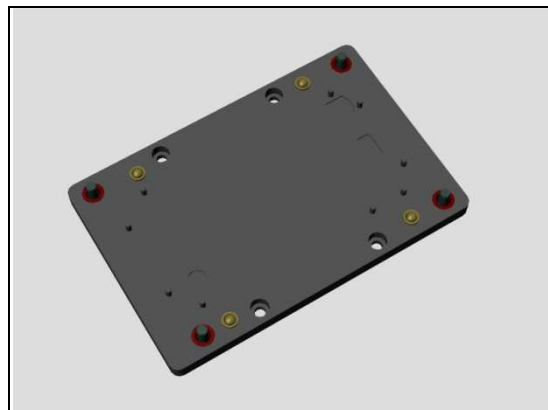
Scrap! Not to be reused!

Make sure all remaining adhesive residue have been removed!



INSTALLATION

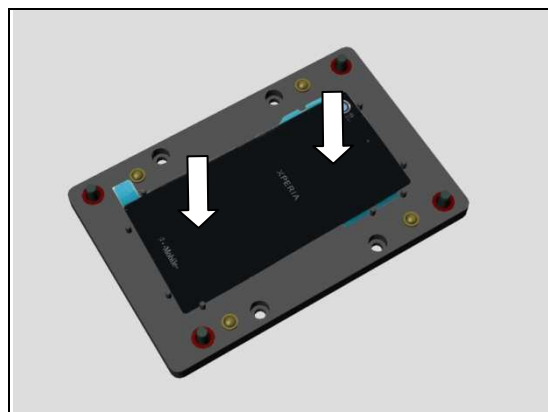
Prepare the Bottom Part of the Window Back Adhesive Fixture.



Place a new Adhesive Window Back with fingers onto the Window Back Adhesive Fixture (Bottom Part).

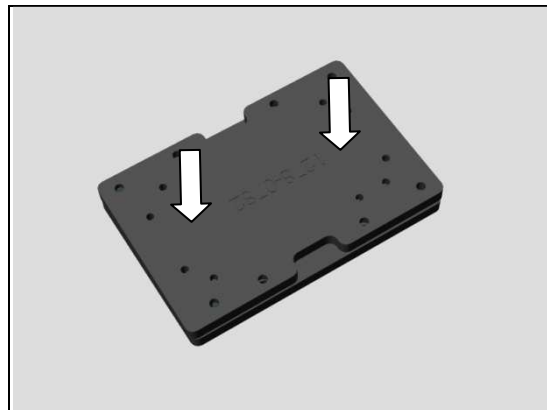
Then place the old Window Back Sub Assy above the Adhesive Window Back.

Important to make sure that old adhesive is removed before installation because of WRT requirement!



Replacement: Adhesive Window Back

Place the Upper Part of the fixture and press by hand for 10 seconds.



Replacement

4.29 Camera Holder

L39t/L39u Follow the 3.1.1 – 3.1.12 Disassembly instructions!

C6916 Follow the 3.2.1 – 3.2.13 Disassembly instructions!

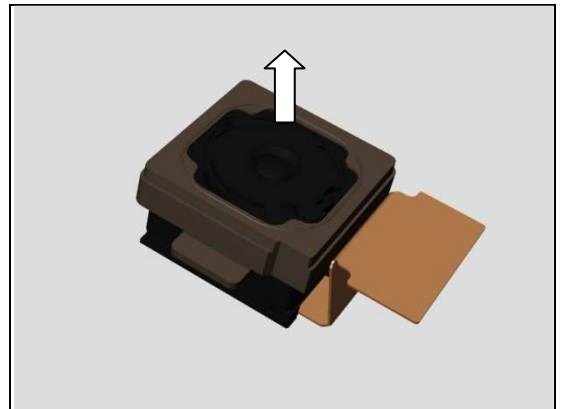
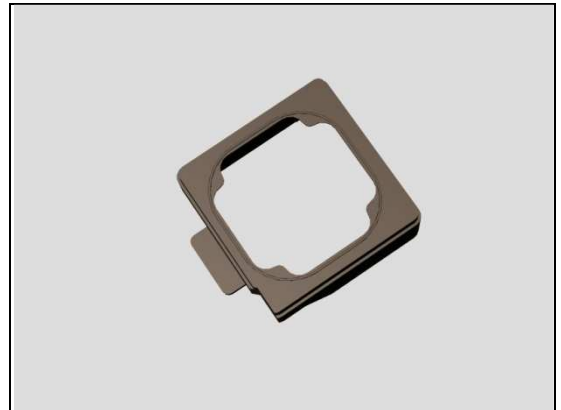
Prepare a new Camera Holder.

L39t/L39u Follow the 5.1.1 – 5.1.12 Reassembly instructions!

C6916 Follow the 5.2.1 – 5.2.13 Reassembly instructions!

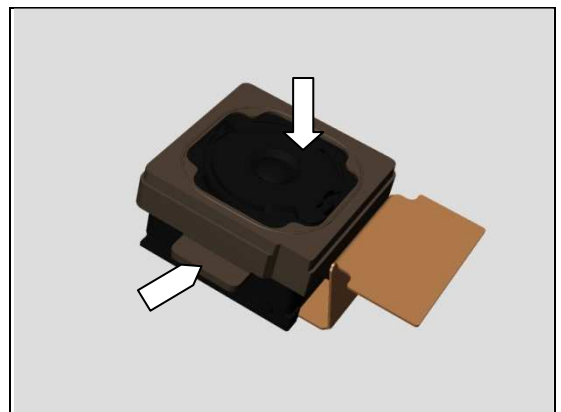
REMOVAL

Remove the Camera Holder with fingers.



INSTALLATION

Mount a new Camera Holder in its proper direction with fingers as shown in picture.



Replacement

4.30 Cap SD-C6916 Specific

C6916 Follow the 3.2.1 – 3.2.13 Disassembly instructions!

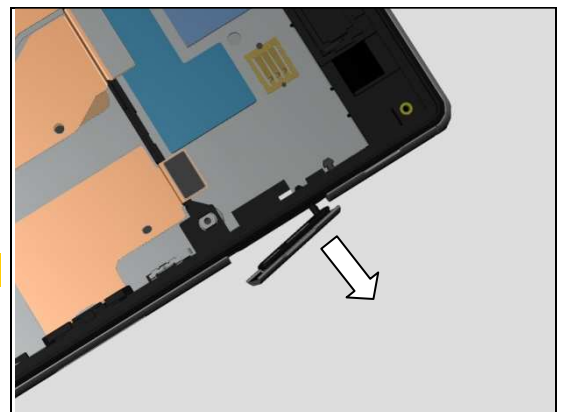
Prepare a new Cap SD.

C6916 Follow the 5.2.1 – 5.2.13 Reassembly instructions!

REMOVAL

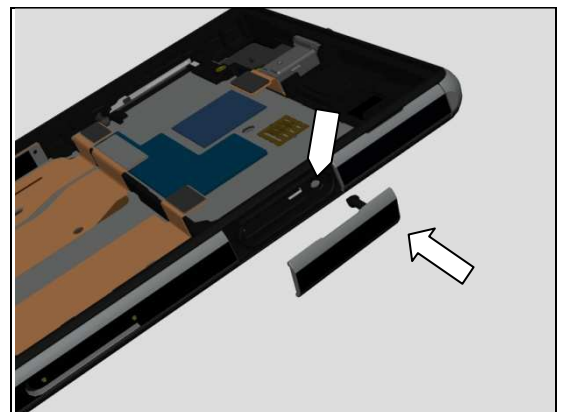
Pull to remove the Cap SD with fingers.

Scrap! Not to be reused!



INSTALLATION

Insert to mount a new Cap SD in its proper position with fingers as shown in picture.



Replacement

4.31 Cap SIM

L39t/L39u Follow the 3.1.1 – 3.1.12 Disassembly instructions!

C6916 Follow the 3.2.1 – 3.2.13 Disassembly instructions!

Prepare a new Cap SIM.

L39t/L39u Follow the 5.1.1 – 5.1.12 Reassembly instructions!

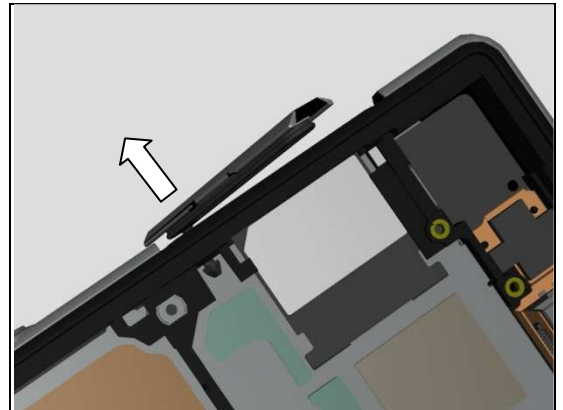
C6916 Follow the 5.2.1 – 5.2.13 Reassembly instructions!



REMOVAL

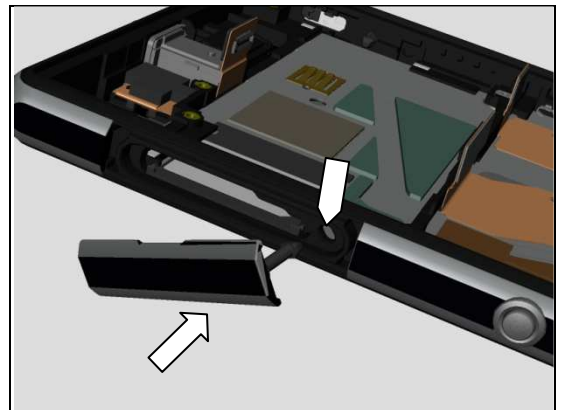
Pull to remove the Cap SIM with fingers.

Scrap! Not to be reused!



INSTALLATION

Insert to mount a new Cap SIM in its proper position with fingers as shown in picture.



Replacement

4.32 Cap USB

L39t/L39u Follow the 3.1.1 – 3.1.12 Disassembly instructions!

C6916 Follow the 3.2.1 – 3.2.13 Disassembly instructions!

Prepare a new Cap USB.

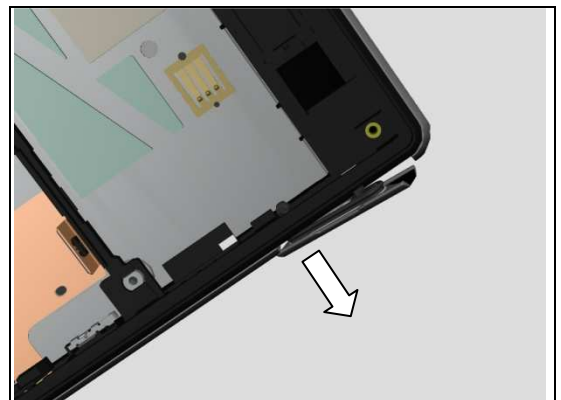
L39t/L39u Follow the 5.1.1 – 5.1.12 Reassembly instructions!

C6916 Follow the 5.2.1 – 5.2.13 Reassembly instructions!

REMOVAL

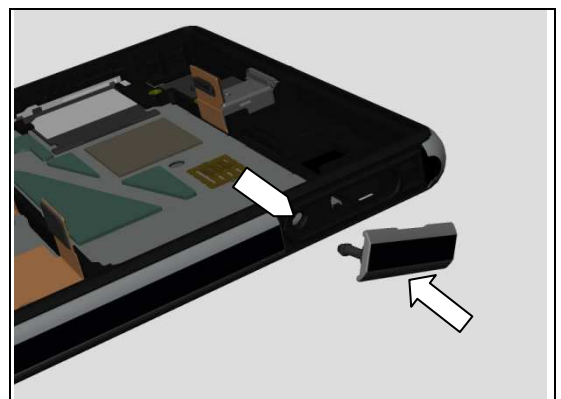
Pull to remove the Cap USB with fingers.

Scrap! Not to be reused!



INSTALLATION

Insert to mount a new Cap USB in its proper position with fingers as shown in picture.



Replacement

4.33 Carrier Plate Vibrator Sub Assy

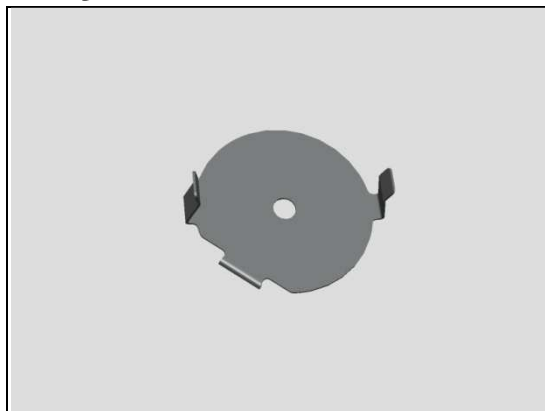
L39t/L39u Follow the 3.1.2 – 3.1.4 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.4 Disassembly instructions!

Prepare a new Carrier Plate Vibrator Sub Assy.

L39t/L39u Follow the 5.1.9 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.10 – 5.2.12 Reassembly instructions!



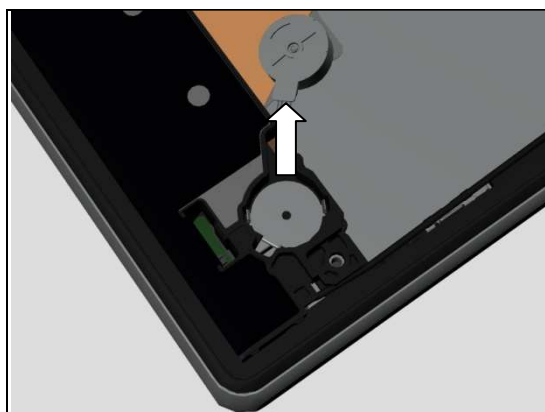
REMOVAL

Release and rotate the Vibrator.

Detach the Carrier Plate Vibrator Sub Assy by using a pair of Plastic Tweezers.

Scrap! Not to be reused!

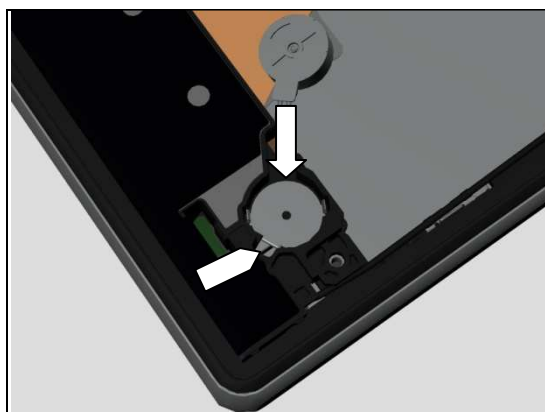
Make sure all remaining adhesive residue have been removed!



INSTALLATION

Attach a new Carrier Plate Vibrator Sub Assy in its proper direction as shown in picture and press it.

Mount the Vibrator into its cavity and attach it.



Replacement

4.34 Chat Camera

L39t/L39u Follow the 3.1.1 – 3.1.11 Disassembly instructions!

C6916 Follow the 3.2.1 – 3.2.12 Disassembly instructions!

Follow the 4.35 Removal instructions!

Prepare a new Chat Camera.

Follow the 4.35 Installation instructions!

L39t/L39u Follow the 5.1.2 – 5.1.12 Reassembly instructions!

C6916 Follow the 5.2.2 – 5.2.13 Reassembly instructions!

REMOVAL

Unlock the ZIF connector by using the Front Opening Tool.

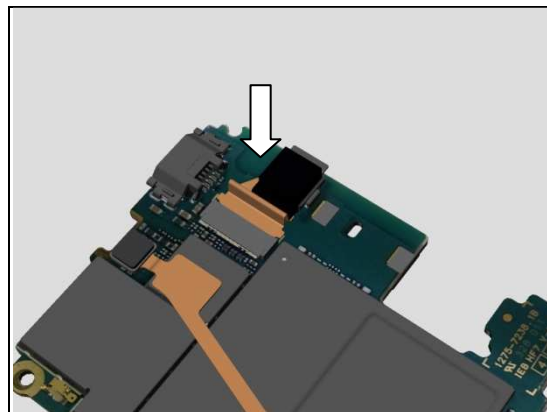
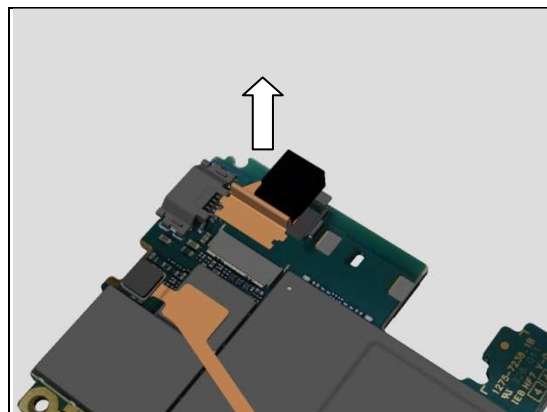
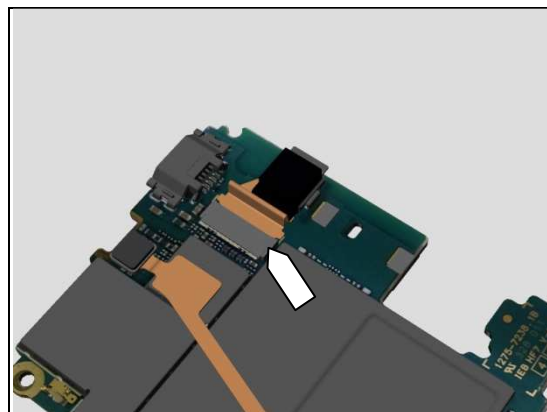
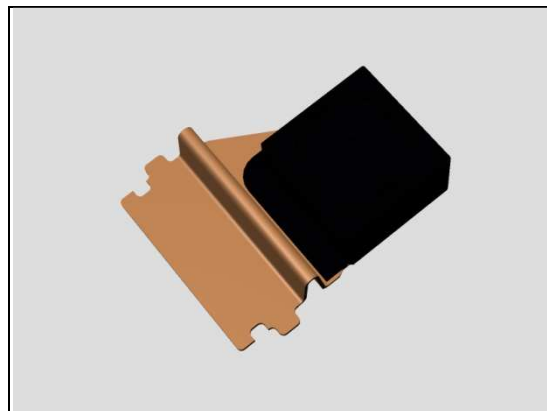
Use the Flex Film Assembly Tool to release the Chat Camera FPC from ZIF connector.

Then use the Front Opening Tool to detach the Chat Camera.

INSTALLATION

Place a new Chat Camera in the cavity as shown in picture and press to secure its attachment.

Gently insert the Chat Camera FPC into the ZIF connector by using the Flex Film Assembly Tool.



Replacement

4.35 Chat Camera Holder

L39t/L39u Follow the 3.1.1 – 3.1.11 Disassembly instructions!

C6916 Follow the 3.2.1 – 3.2.12 Disassembly instructions!

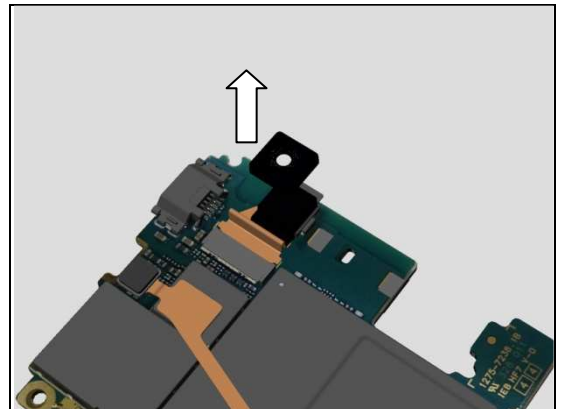
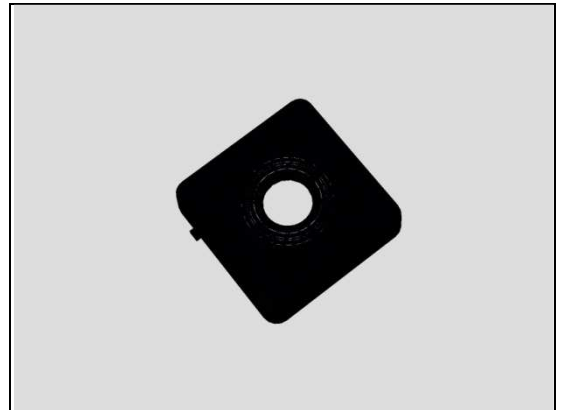
Prepare a new Chat Camera Holder.

L39t/L39u Follow the 5.1.2 – 5.1.12 Reassembly instructions!

C6916 Follow the 5.2.2 – 5.2.13 Reassembly instructions!

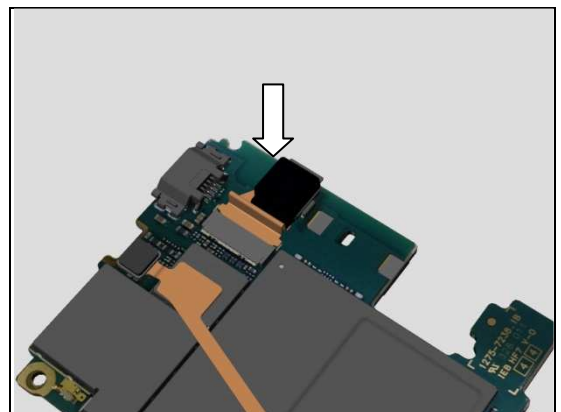
REMOVAL

Remove the Chat Camera Holder with fingers.



INSTALLATION

Mount a new Chat Camera Holder with fingers.



Replacement

4.36 Conductive Film Ear Speaker

L39t/L39u Follow the 3.1.1 – 3.1.11 Disassembly instructions!

C6916 Follow the 3.2.1 – 3.2.12 Disassembly instructions!

Prepare a new Conductive Film Ear Speaker.

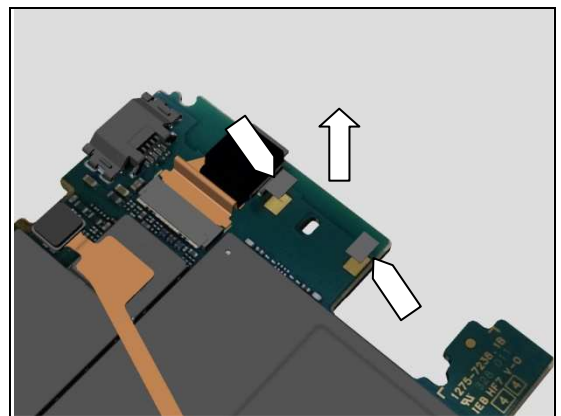
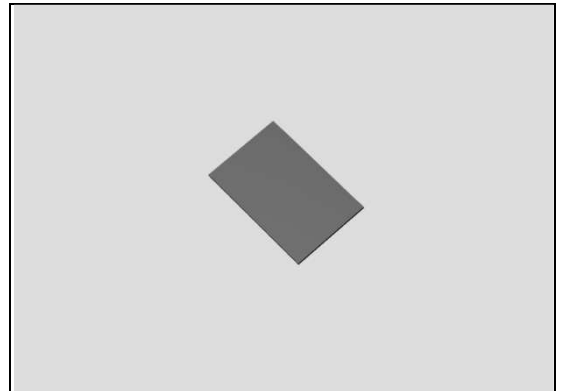
L39t/L39u Follow the 5.1.2 – 5.1.12 Reassembly instructions!

C6916 Follow the 5.2.2 – 5.2.13 Reassembly instructions!

REMOVAL

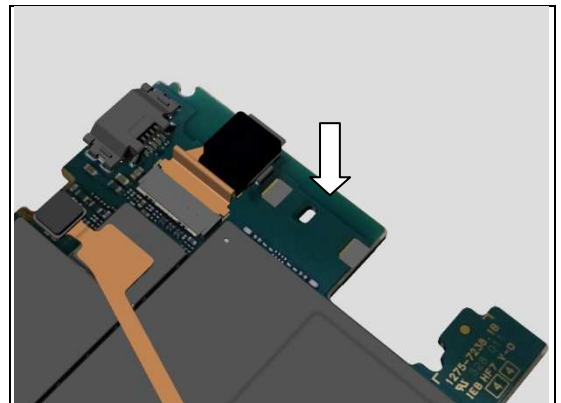
Detach the Conductive Film Ear Speaker with a pair of Plastic Tweezers.

Scrap! Not to be reused!



INSTALLATION

Attach a new Conductive Film Ear Speaker in its proper position with a pair of Plastic Tweezers as shown in picture.



Replacement

4.37 Core Unit Label

L39t/L39u Follow the 3.1.1 Disassembly instructions!

C6916 Follow the 3.2.1 Disassembly instructions!

Prepare a new Core Unit Label.

L39t/L39u Follow the 5.1.12 Reassembly instructions!

C6916 Follow the 5.2.13 Reassembly instructions!

REMOVAL

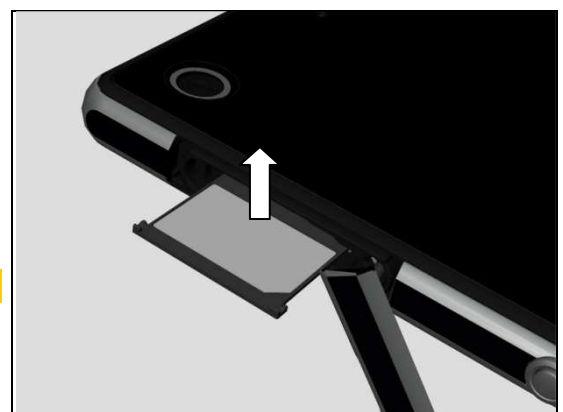
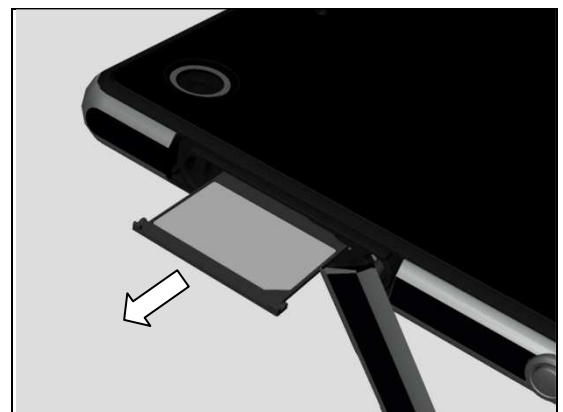
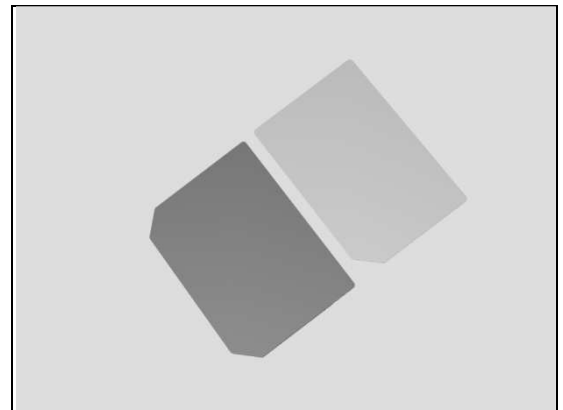
Open the Cap SIM.

Identify the two projections for pulling.

Pull out the Tray Core Unit Label with fingers.

Read the old Core Unit Label and/or write the information into the 'Label Print Solution' program before removal.
Carefully remove the Core Unit Label by using the Flex Film Assembly Tool.

Scrap! Not to be reused!



Replacement: Core Unit Label

Read the old Core Unit Label and/or write the information into the 'Label Print Solution' program before removal.
Carefully remove the Core Unit Label by using the Flex Film Assembly Tool.

Scrap! Not to be reused!

INSTALLATION

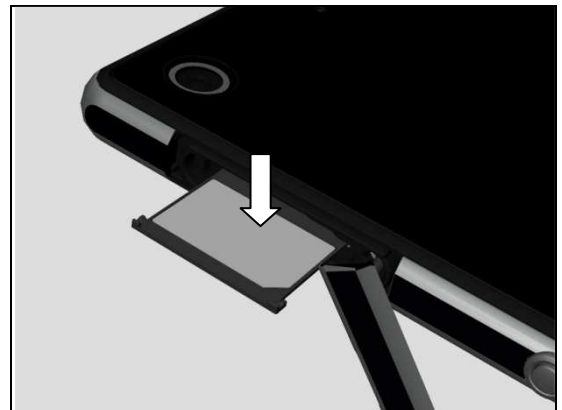
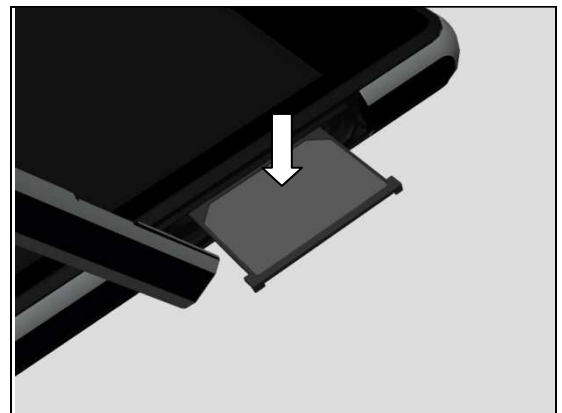
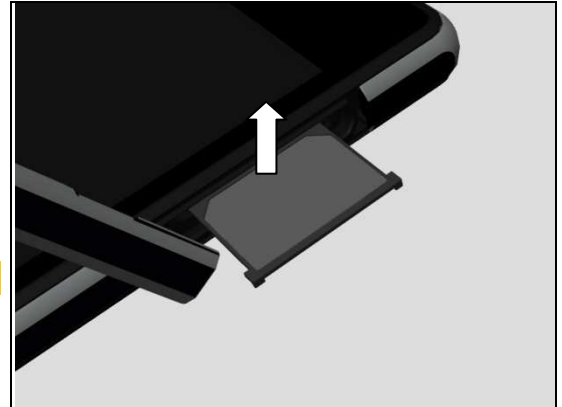
Check that the label format is properly loaded in the Zebra printer and write a new Label using the 'Label Print Solution' software.

Attach a new Core Unit Label in its cavity.

Check that the label format is properly loaded in the Zebra printer and write a new Label using the 'Label Print Solution' software.

Attach a new Core Unit Label in its cavity.

Close the Cap SIM.



Replacement

4.38 Ear Speaker and Adhesive Earspeaker

L39t/L39u Follow the 3.1.1 – 3.1.12 Disassembly instructions!

C6916 Follow the 3.2.1 – 3.2.13 Disassembly instructions!

Prepare a new Ear Speaker and Adhesive Earspeaker.

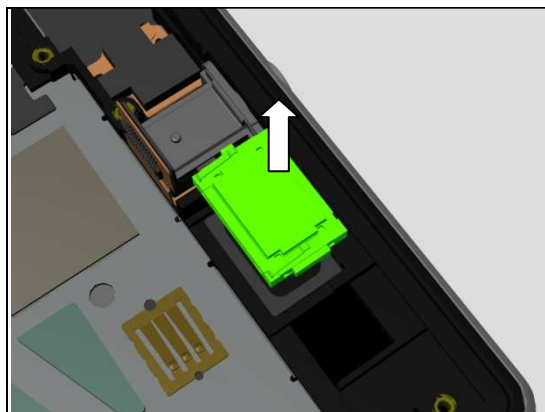
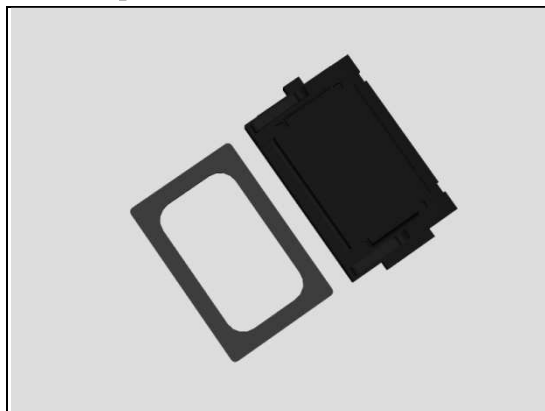
L39t/L39u Follow the 5.1.1 – 5.1.12 Reassembly instructions!

C6916 Follow the 5.2.1 – 5.2.13 Reassembly instructions!

REMOVAL

Detach to remove the Ear Speaker by using the Front Opening Tool.

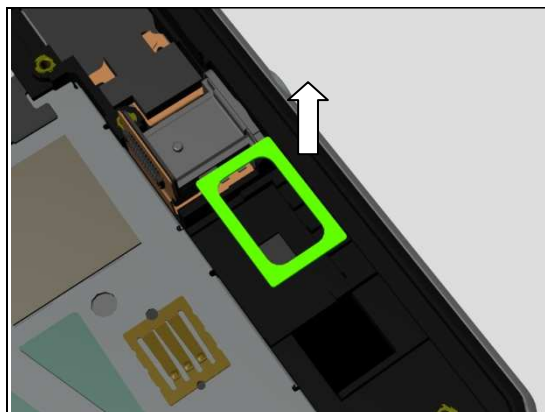
Scrap! Not to be reused!



Detach to remove the Adhesive Earspeaker by using the Front Opening Tool.

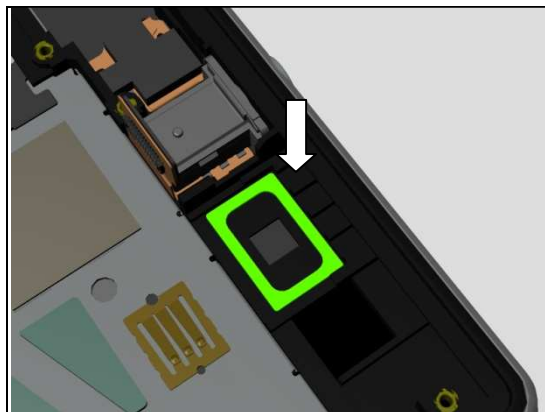
Scrap! Not to be reused!

Make sure all remaining adhesive residue have been removed!



INSTALLATION

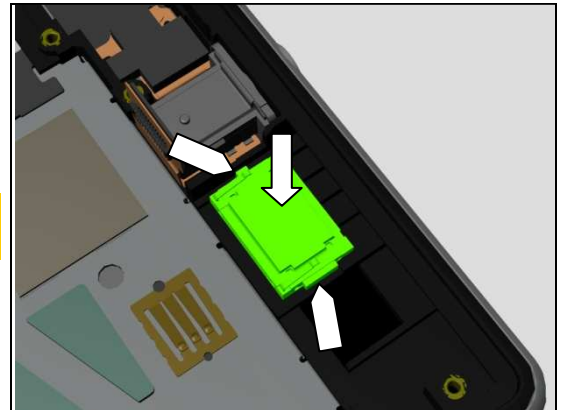
Attach a new Adhesive Earspeaker in its proper position as shown in picture.



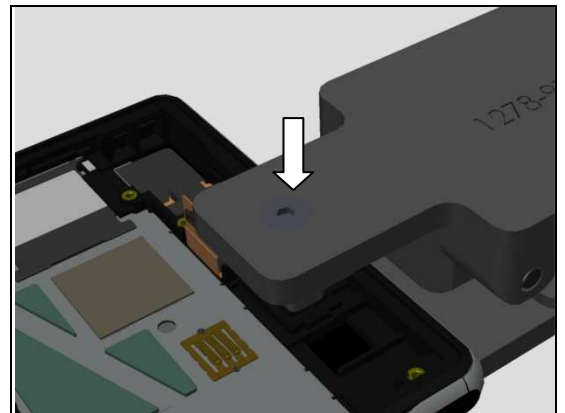
Replacement: Ear Speaker and Adhesive Earspeaker

Mount a new Ear Speaker in its cavity.

Note the orientation of the Ear Speaker to be installed as shown in picture!



Press it by using the Earspeaker Press Tool for 5s.



Replacement

4.39 Film Shield Can LCD Component-L39t/L39u Specific

L39t/L39u Follow the 3.1.2 – 3.1.9 Disassembly instructions!
 Prepare a new Film Shield Can LCD Component.
L39t/L39u Follow the 5.1.4 – 5.1.11 Reassembly instructions!

REMOVAL

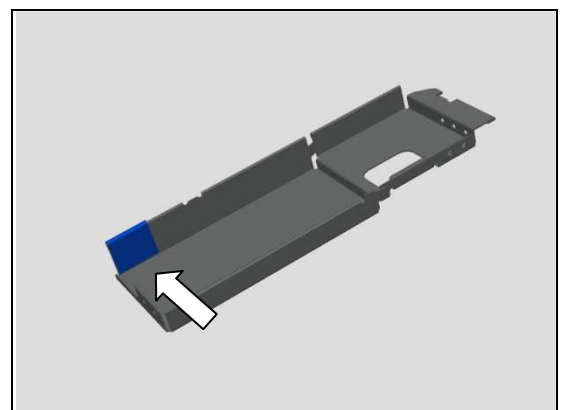
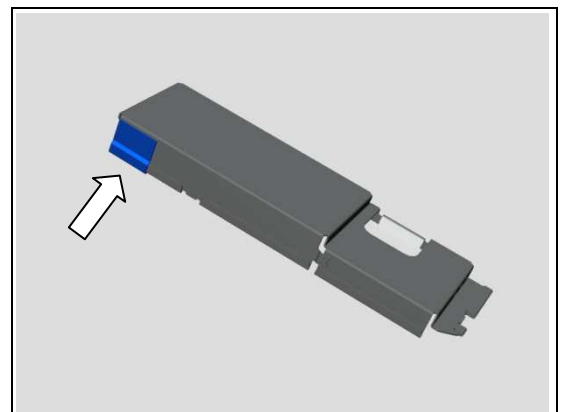
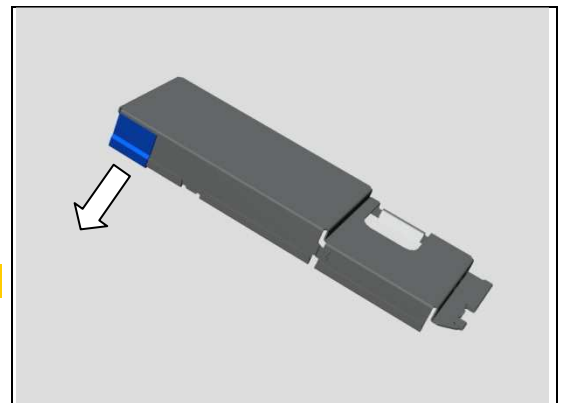
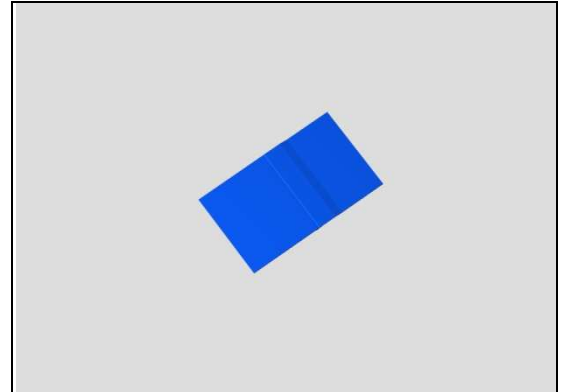
Detach the Film Shield Can LCD Component a pair of Plastic Tweezers.

Scrap! Not to be reused!

INSTALLATION

Attach a new Film Shield Can LCD Component as shown in picture.

Attach a new Film Shield Can LCD Component as shown in picture.



Replacement

4.40 FPC Assy 2nd Antenna and Film 2nd Antenna FPC-L39t/L39u Specific

L39t/L39u Follow the 3.1.1 – 3.1.11 Disassembly instructions!
Prepare a new FPC Assy 2nd Antenna and Film 2nd Antenna FPC.

L39t/L39u Follow the 5.1.2 – 5.1.12 Reassembly instructions!

REMOVAL

Detach the Film 2nd Antenna FPC with a pair of Plastic Tweezers.

Scrap! Not to be reused!

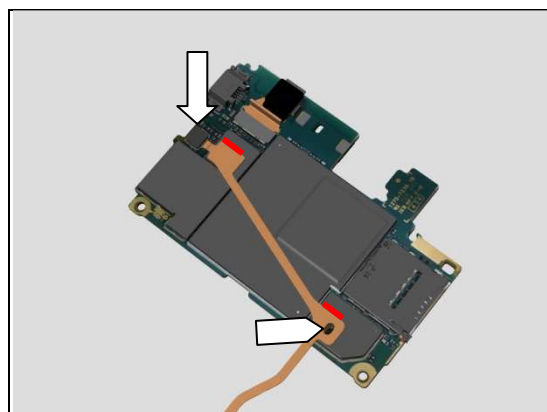
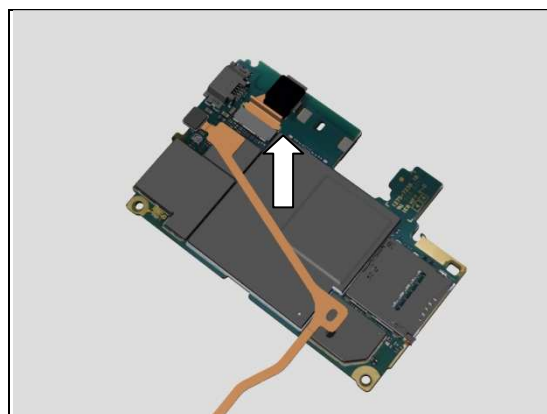
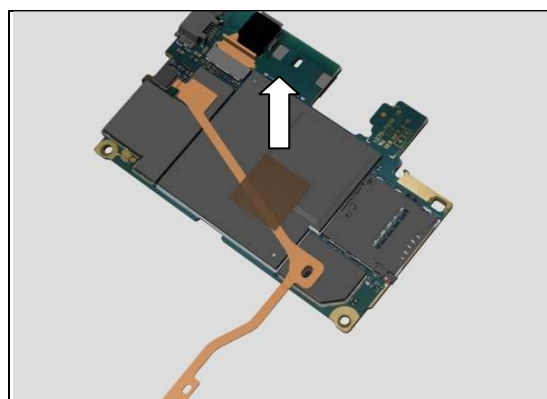
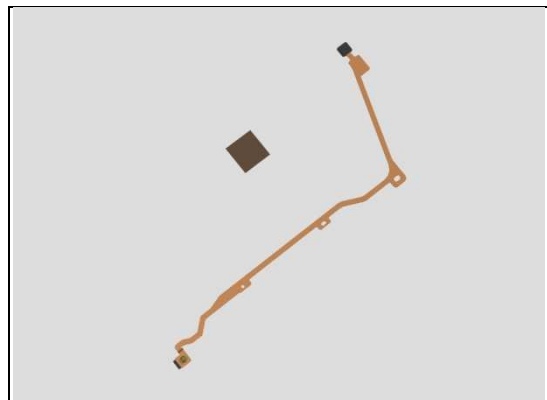
Disconnect RF connector of the FPC Assy 2nd Antenna and detach it.

Scrap it due to adhesive bonding strength is lost or FPC is damaged or folded from disassembly.

INSTALLATION

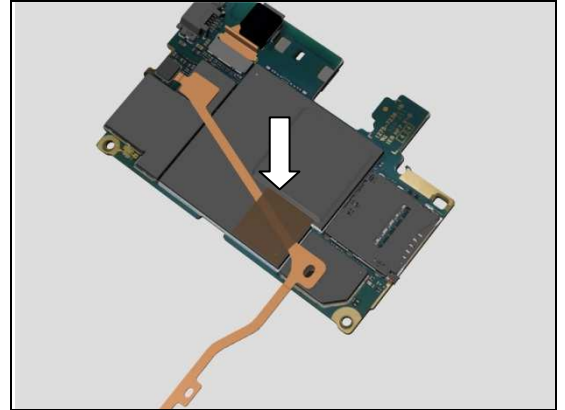
Press to snap the RF connector of the FPC Assy 2nd Antenna.

Attach the FPC Assy 2nd Antenna by aligning with the guiding hole and guiding lines as shown in picture.



Replacement: FPC Assy 2nd Antenna and Film 2nd Antenna FPC-L39t/L39u Specific

Attach a new Film 2nd Antenna FPC by aligning with the shielding can lid as shown in picture.



Replacement

4.41 FPC Assy Audio Jack and Gasket Audio Jack FPC

L39t/L39u Follow the 3.1.1 – 3.1.12 Disassembly instructions!

C6916 Follow the 3.2.1 – 3.2.13 Disassembly instructions!

Prepare a new FPC Assy Audio Jack and Gasket Audio Jack FPC.

L39t/L39u Follow the 5.1.1 – 5.1.12 Reassembly instructions!

C6916 Follow the 5.2.1 – 5.2.13 Reassembly instructions!

REMOVAL

Detach the FPC of the FPC Assy Audio Jack.

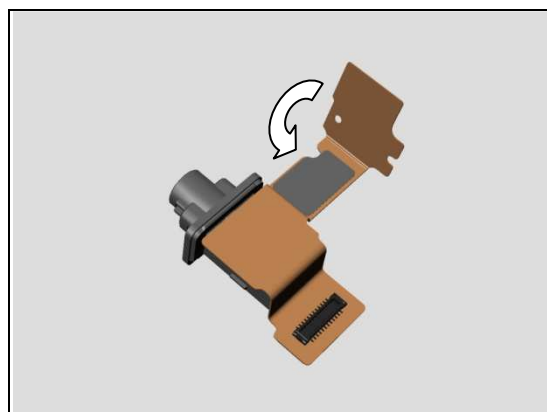
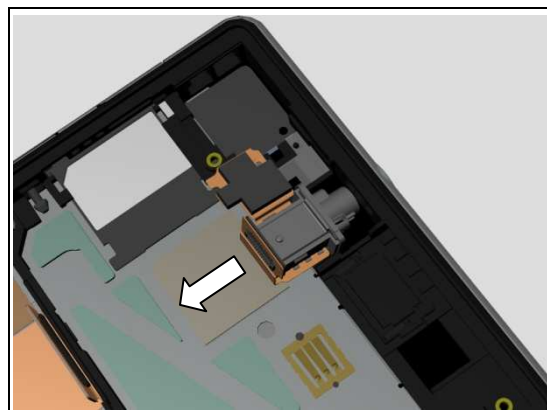
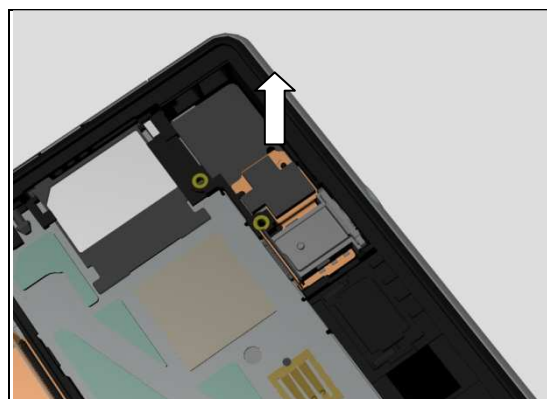
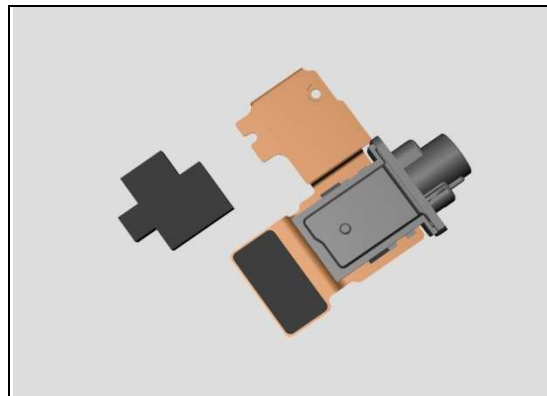
Detach to remove the FPC Assy Audio Jack by using the Front Opening Tool.

Scrap! Not to be reused!

Make sure all remaining adhesive residue have been removed!

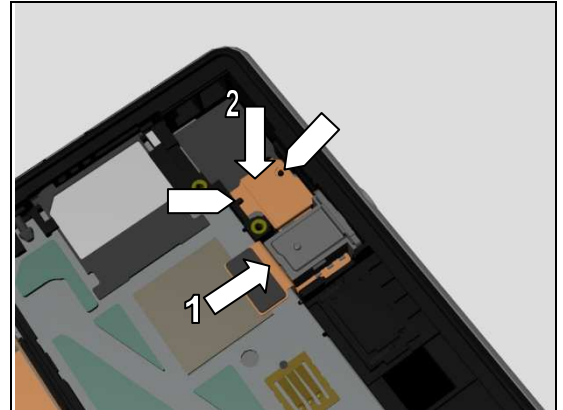
INSTALLATION

Fold the FPC to attach it before assembly as shown in picture.

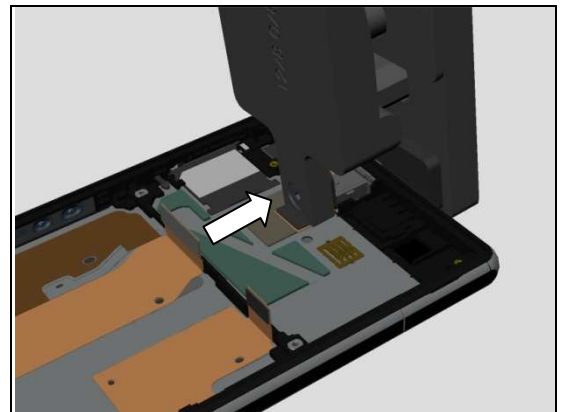


Replacement: FPC Assy Audio Jack and Gasket Audio Jack FPC

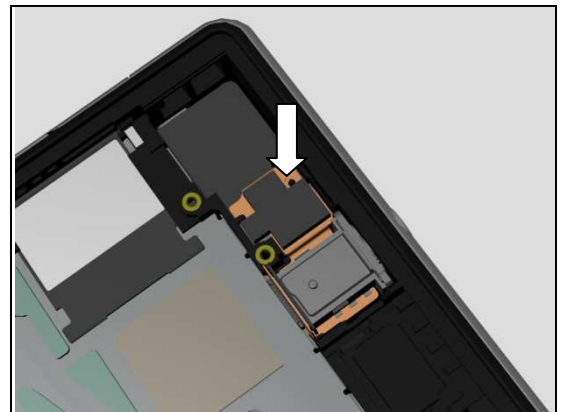
Push to mount a new FPC Assy Audio Jack into its hole (1) and then press the FPC by aligning with the two guiding pins (2) as shown in picture.



Press it by using the Audio Jack Press Tool for 10s.



Attach a new Gasket Audio Jack FPC as shown in picture.



Replacement

4.42 FPC Assy Charger Pad

L39t/L39u Follow the 3.1.2 – 3.1.6 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.6 Disassembly instructions!

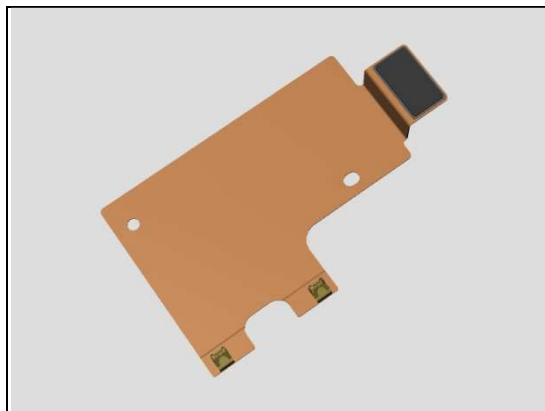
Follow the 4.47 Removal instructions!

Prepare a new FPC Assy Charger Pad.

Follow the 4.47 Installation instructions!

L39t/L39u Follow the 5.1.7 – 5.1.11 Reassembly instructions!

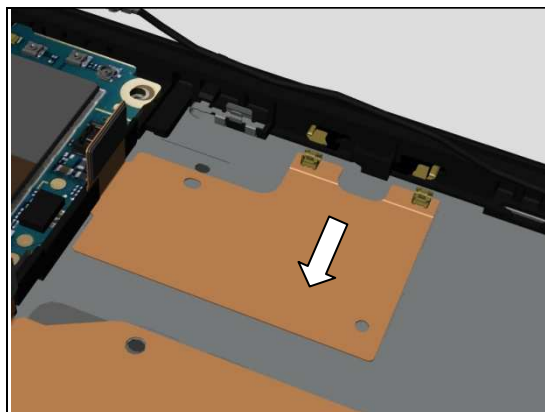
C6916 Follow the 5.2.8 – 5.2.12 Reassembly instructions!



REMOVAL

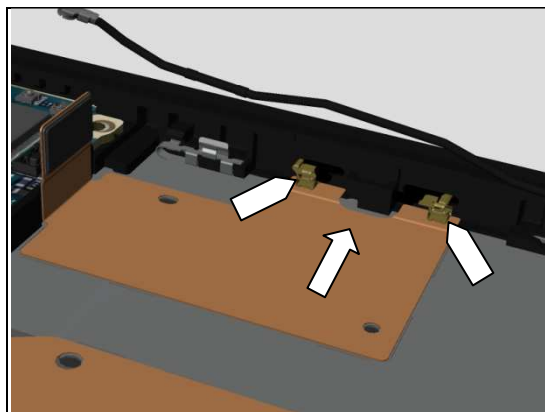
Detach the FPC Assy Charger Pad with fingers.

Scrap it due to adhesive bonding strength is lost or FPC is damaged or folded from disassembly.

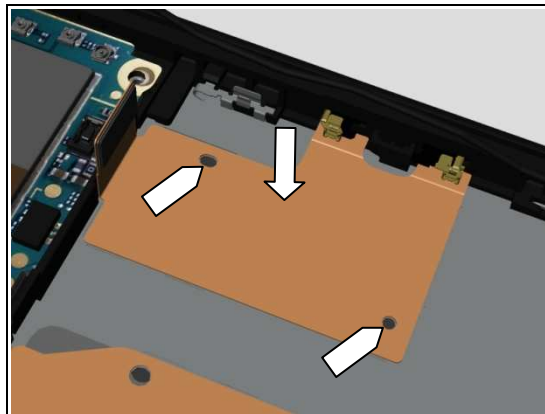


INSTALLATION

Insert two contact springs under the two contact pads of the Magnetic charger connector as shown in picture.



Attach the new FPC Assy Charger Pad by aligning with the two guiding holes.



Replacement

4.43 FPC Assy Relay/Side Key-C6916 Specific

C6916 Follow the 3.2.2 – 3.2.11 Disassembly instructions!

Prepare a new FPC Assy Relay/Side Key.

C6916 Follow the 5.2.3 – 5.2.12 Reassembly instructions!

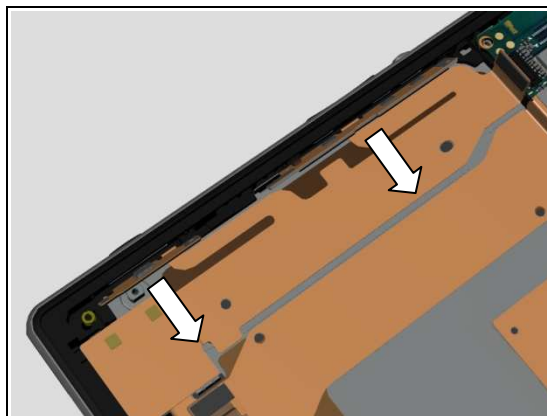
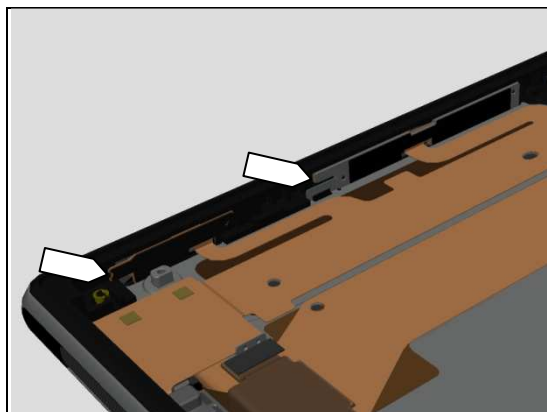
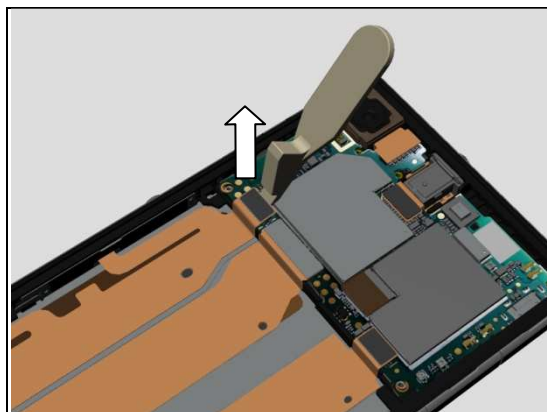
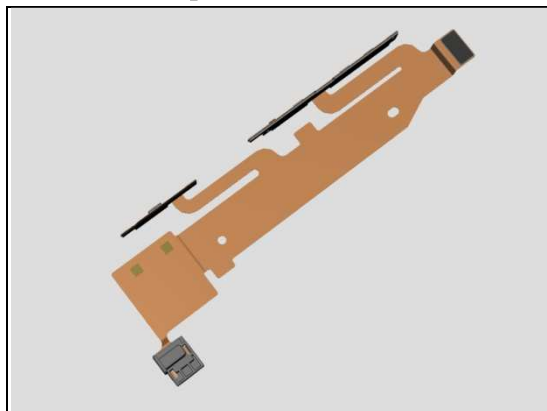
REMOVAL

Disconnect BtB connector of the FPC Assy Relay/Side Key by using the Front Opening Tool.

Do not damage components on the Main PBA!

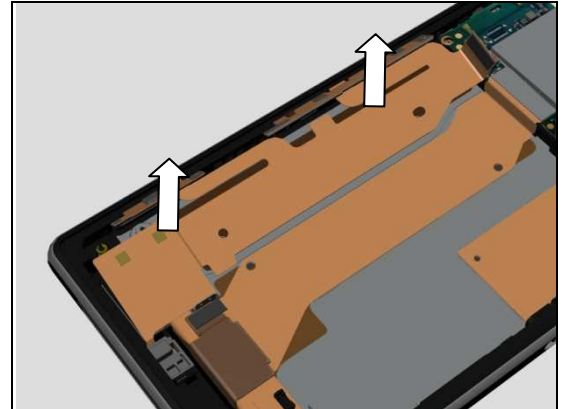
Identify the release positions as shown in picture.

Release the side key FPC and camera key FPC by using Plastic Tweezers.



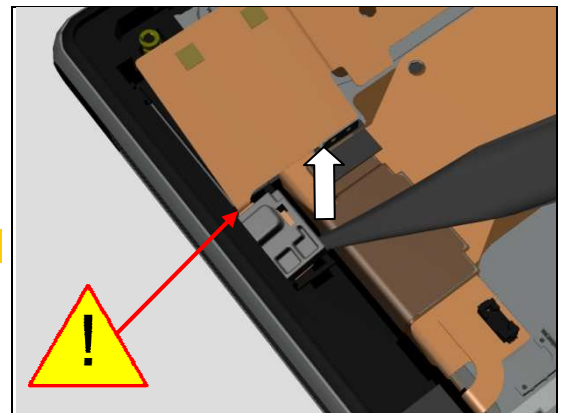
Replacement: FPC Assy Relay/Side Key-C6916 Specific

Detach the FPC Assy Relay/Side Key as shown in picture.

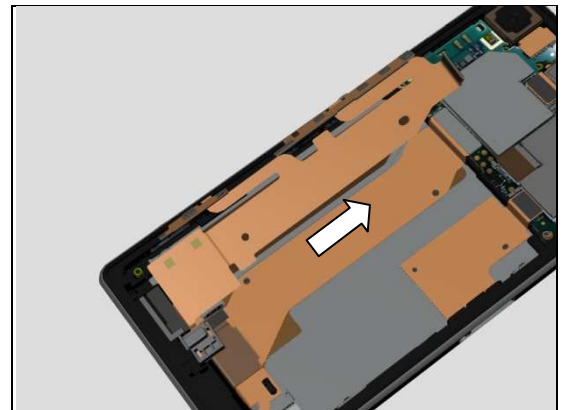


Release 1st MIC part of the FPC Assy Relay/Side Key as shown in picture.

Be careful! Do not break the FPC!



Remove the FPC Assy Relay/Side Key.

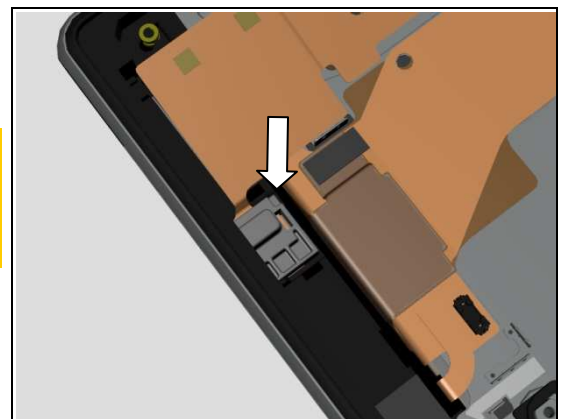


INSTALLATION

Follow the 4.20 Removal and Installation instructions to replace a new Adhesive Relay FPC Bottom.

Follow the 4.24 Removal and Installation instructions to replace a new Adhesive Relay FPC.

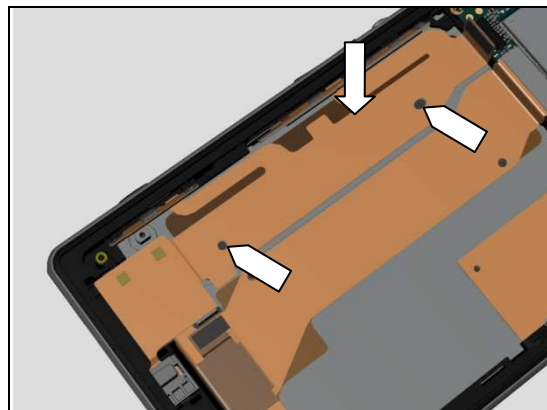
Mount 1st Mic part of the FPC Assy Relay/Side Key as shown in picture.



Replacement: FPC Assy Relay/Side Key-C6916 Specific

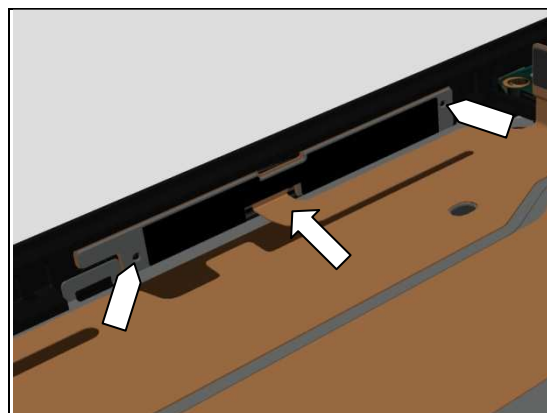
Attach the FPC Assy Relay/Side Key by aligning with the guiding holes as shown in picture.

Note! The copper contact area of the FPCs must be attached well.



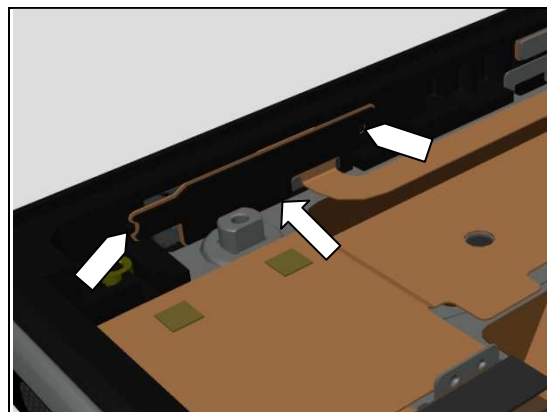
Follow the 4.26 and 4.27 Removal and Installation instructions to replace a new Adhesive Volume Key FPC Left and Adhesive Volume Key FPC Right.

Mount the side key FPC by aligning with the two guiding holes as shown in picture.

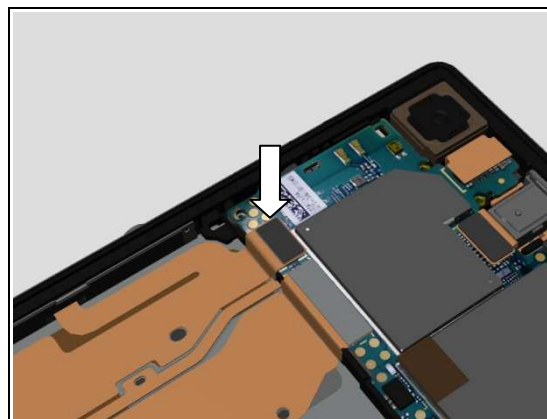


Follow the 4.17 and 4.18 Removal and Installation instructions to replace a new Adhesive Camera Key FPC Left and Adhesive Camera Key FPC Right.

Mount the camera key FPC by aligning with the two guiding holes as shown in picture.



Press to snap the FPC Assy Relay/Side Key BtB connector.



Replacement

4.44 Gasket 2nd MIC

L39t/L39u Follow the 3.1.2 – 3.1.5 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.5 Disassembly instructions!

Prepare a new Gasket 2nd MIC.

L39t/L39u Follow the 5.1.8 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.9 – 5.2.12 Reassembly instructions!

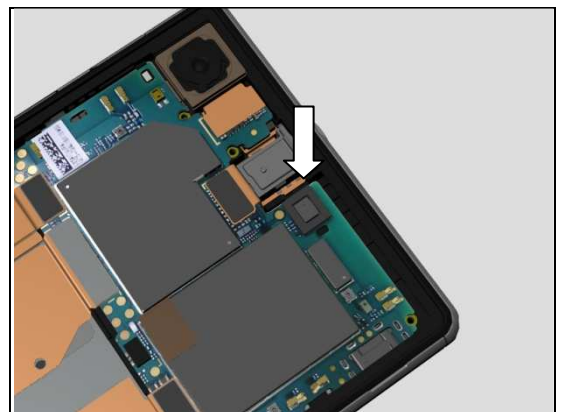
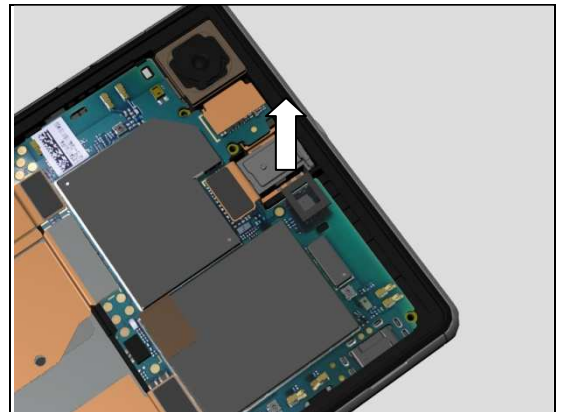
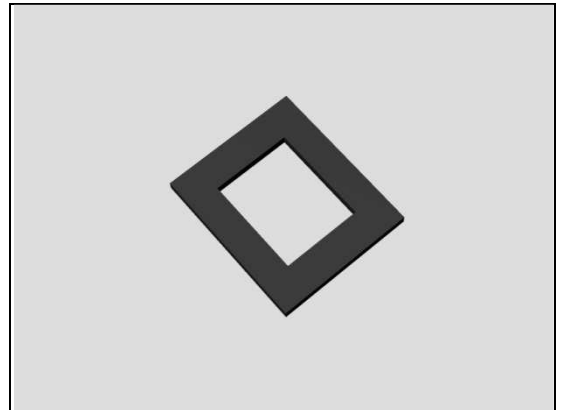
REMOVAL

Detach the Gasket 2nd MIC with a pair of Plastic Tweezers.

Scrap! Not to be reused!

INSTALLATION

Attach a new Gasket 2nd MIC as shown in picture.



Replacement

4.45 Gasket Antenna PBA Sub

L39t/L39u Follow the 3.1.2 – 3.1.6 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.11 Disassembly instructions!

Prepare a new Gasket Antenna PBA Sub.

L39t/L39u Follow the 5.1.7 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.3 – 5.2.12 Reassembly instructions!

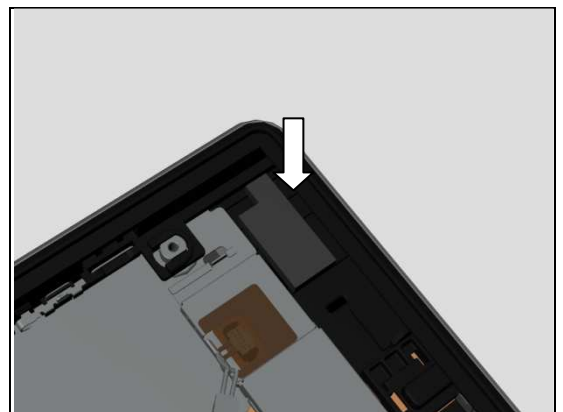
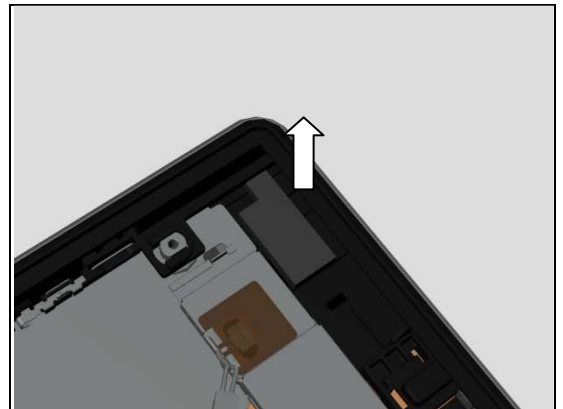
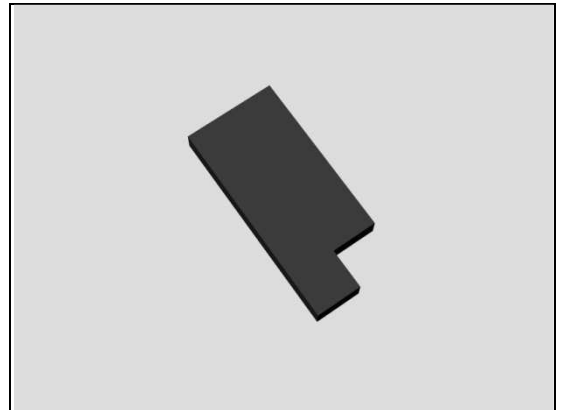
REMOVAL

Detach the Gasket Antenna PBA Sub by a pair of Plastic Tweezers.

Scrap! Not to be reused!

INSTALLATION

Attach a new Gasket Antenna PBA Sub onto its proper position as shown in picture.



Replacement

4.46 Gasket Audio Jack Holder-L39t/L39u Specific

L39t/L39u Follow the 3.1.2 – 3.1.5 Disassembly instructions!

Prepare a new Gasket Audio Jack Holder.

L39t/L39u Follow the 5.1.8 – 5.1.11 Reassembly instructions!

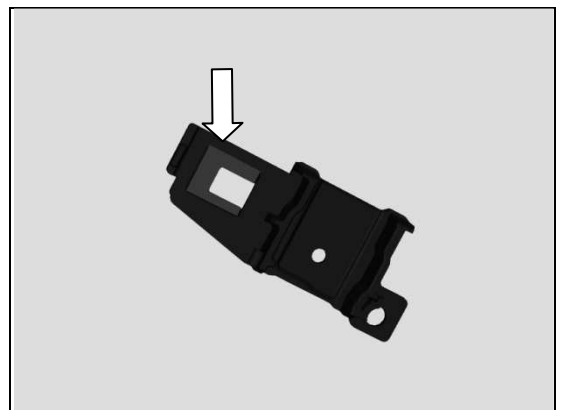
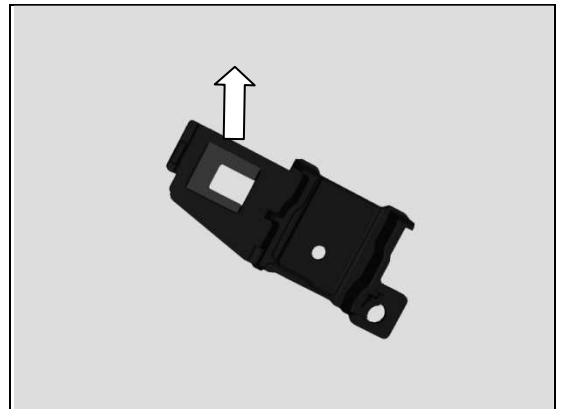
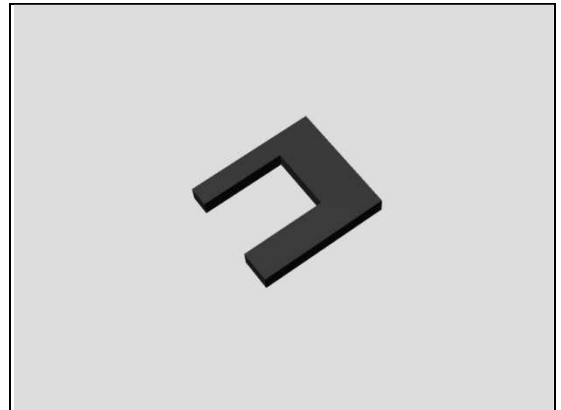
REMOVAL

Detach the Gasket Audio Jack Holder with a pair of Plastic Tweezers.

Scrap! Not to be reused!

INSTALLATION

Attach a new Gasket Audio Jack Holder as shown in picture.



Replacement

4.47 Holder Charger Pad Connector

L39t/L39u Follow the 3.1.2 – 3.1.6 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.6 Disassembly instructions!

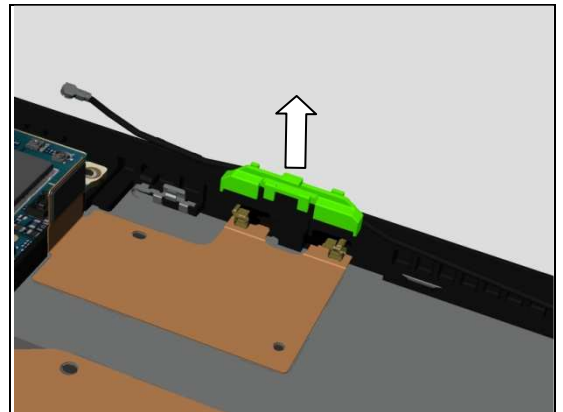
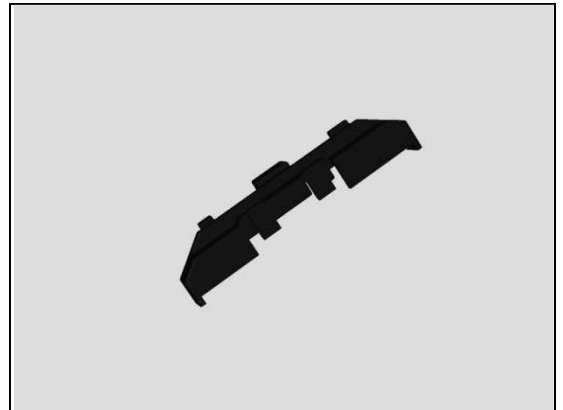
Prepare a new Holder Charger Pad Connector.

L39t/L39u Follow the 5.1.7 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.8 – 5.2.12 Reassembly instructions!

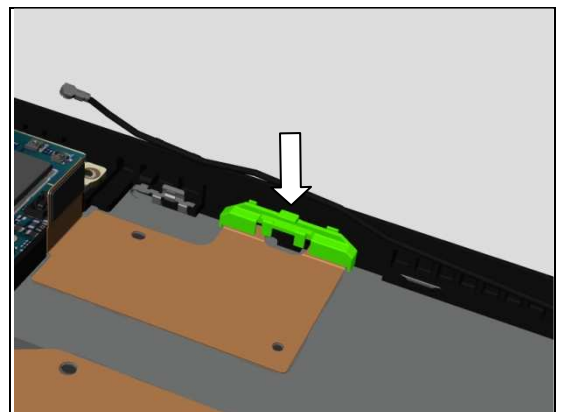
REMOVAL

Remove the Holder Charger Pad Connector with a pair of Plastic Tweezers.



INSTALLATION

Press to snap a new Holder Charger Pad Connector as shown in picture.



Replacement

4.48 Insulator Film Battery

L39t/L39u Follow the 3.1.2 – 3.1.4 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.4 Disassembly instructions!

Prepare a new Insulator Film Battery.

L39t/L39u Follow the 5.1.9 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.10 – 5.2.12 Reassembly instructions!

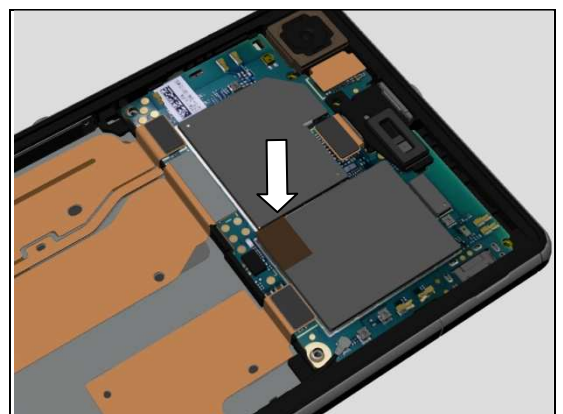
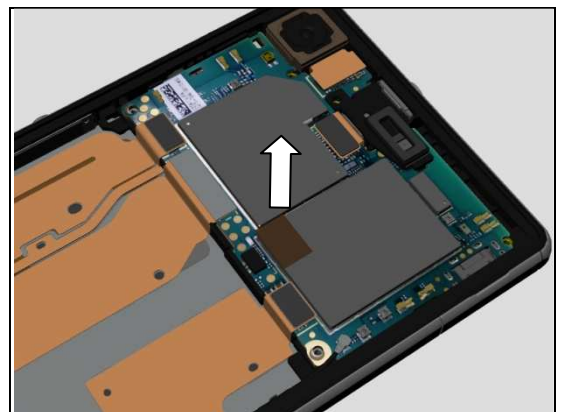
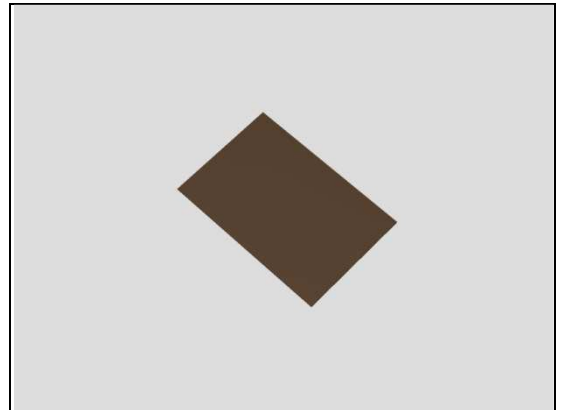
REMOVAL

Detach the Insulator Film Battery by using the Flex Film Assembly Tool.

Scrap! Not to be reused!

INSTALLATION

Attach a new Insulator Film Battery by aligning with the shielding can lid as shown in picture.



Replacement

4.49 Liquid indicator

L39t/L39u Follow the 3.1.1 – 3.1.12 Disassembly instructions!

C6916 Follow the 3.2.1 – 3.2.13 Disassembly instructions!

Prepare a new Liquid indicator.

L39t/L39u Follow the 5.1.1 – 5.1.12 Reassembly instructions!

C6916 Follow the 5.2.1 – 5.2.13 Reassembly instructions!

REMOVAL

Detach to remove the Liquid indicator by using a Flex Film Assembly Tool.

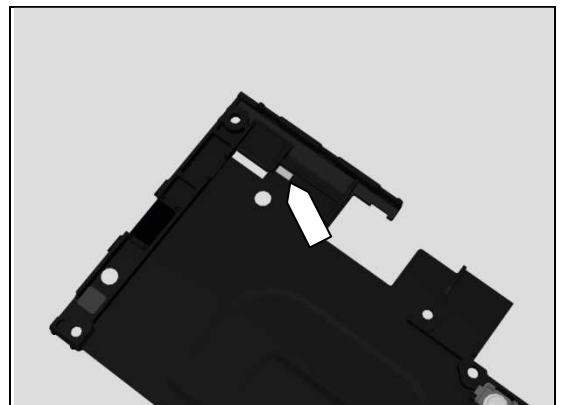
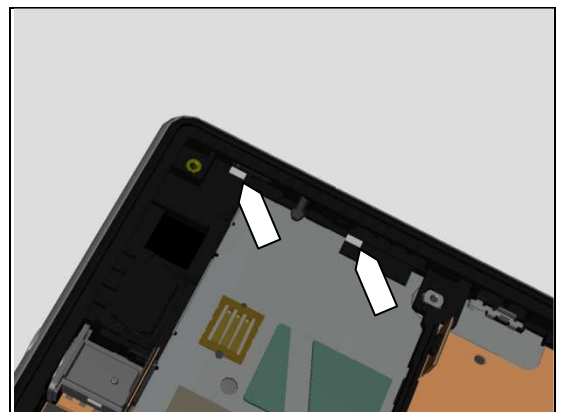
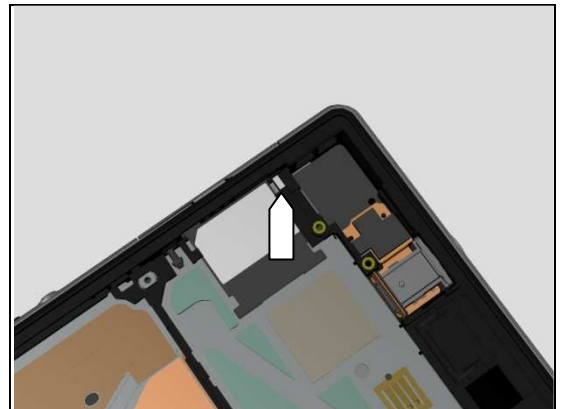
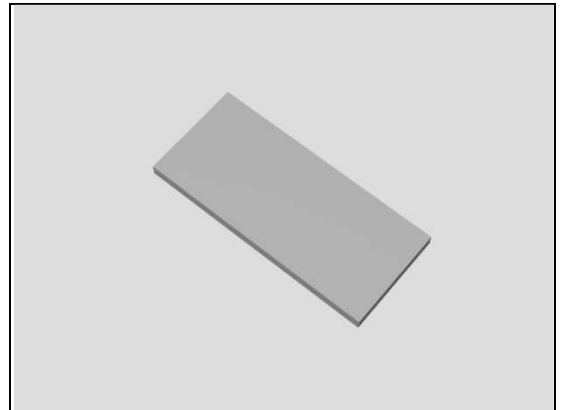
Scrap! Not to be reused!

INSTALLATION

Attach a new Liquid indicator in its proper position by using a Flex Film Assembly Tool as shown in picture.

Do the same to these two Liquid Indicators.

Do the same to this Liquid Indicator.



Replacement

4.50 Magnetic charger connector

L39t/L39u Follow the 3.1.2 – 3.1.6 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.6 Disassembly instructions!

Follow the 4.47 Removal instructions!

Prepare a new Magnetic charger connector.

Follow the 4.47 Installation instructions!

L39t/L39u Follow the 5.1.7 – 5.1.11 Reassembly instructions!

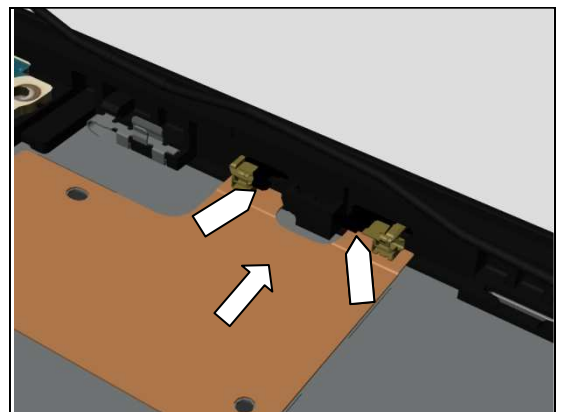
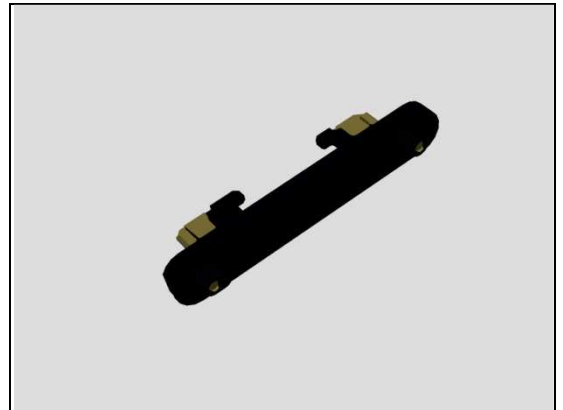
C6916 Follow the 5.2.8 – 5.2.12 Reassembly instructions!

REMOVAL

Push the two contact pads of the Magnetic charger connector by using Front Opening Tool to detach it.

Scrap! Not to be reused!

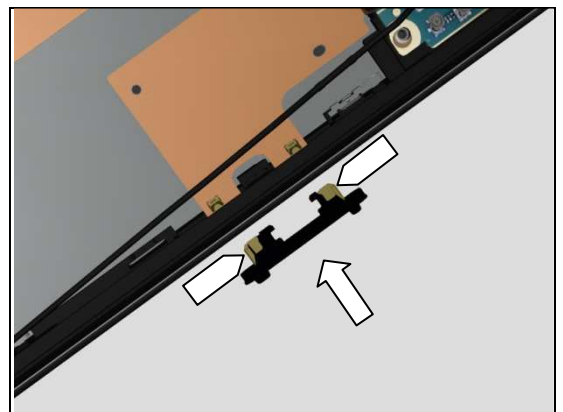
Be careful! Do not damage the two contact springs of FPC Assy Charger Pad.



INSTALLATION

Mount a new Magnetic charger connector into its hole with fingers.

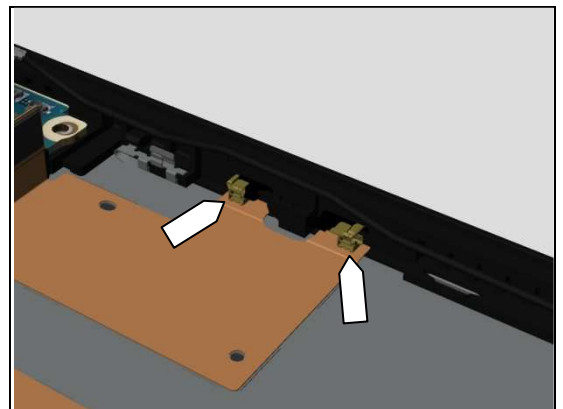
Note the orientation of the Magnetic charger connector to be installed as shown in picture!



Check and press the two contact springs to be under the two contact pads by using the Front Opening Tool as shown in picture.

Be careful! Do not damage the two contact springs of the FPC Assy Charger Pad.

Then use Side Panel press, Side Panel Press Head and Charge connector press pad with the force of $60N \pm 5N$ for 10 seconds. According to 1003-9107 Tool Catalogue – mechanical and document Side Panel press Instruction for use.



Replacement

4.51 PBA Sub-L39t/L39u Specific

L39t/L39u Follow the 3.1.2 – 3.1.6 Disassembly instructions!

Prepare a new PBA Sub.

L39t/L39u Follow the 5.1.7 – 5.1.11 Reassembly instructions!

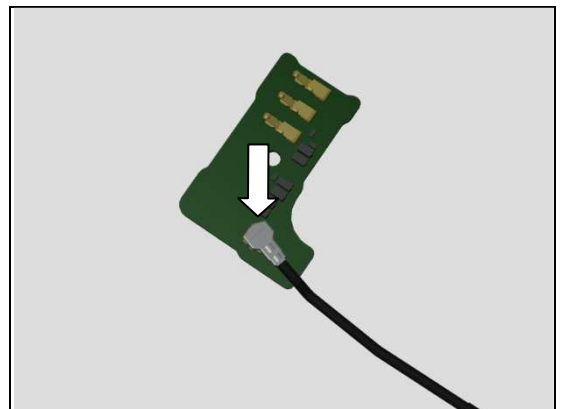
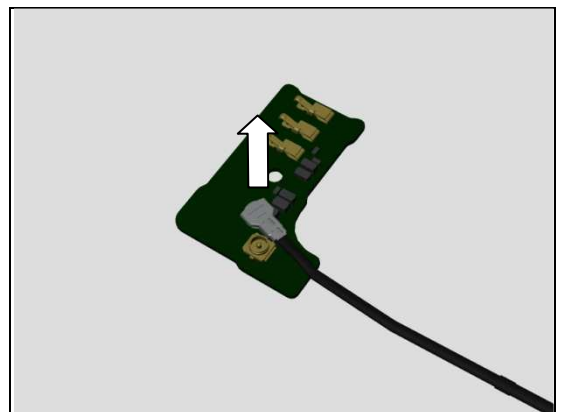
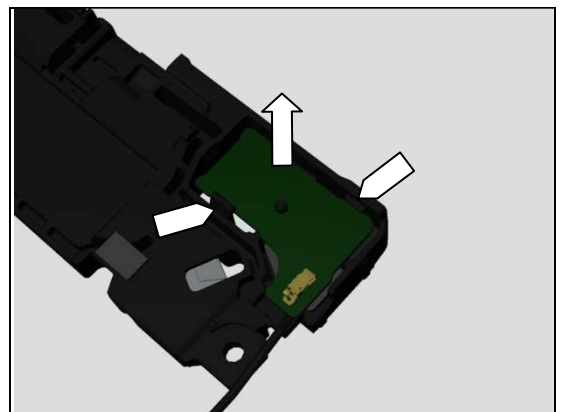
REMOVAL

Unsnap the two hooks by using the Front Opening Tool as shown in picture and remove the PBA Sub.

Disconnect the RF Cable.

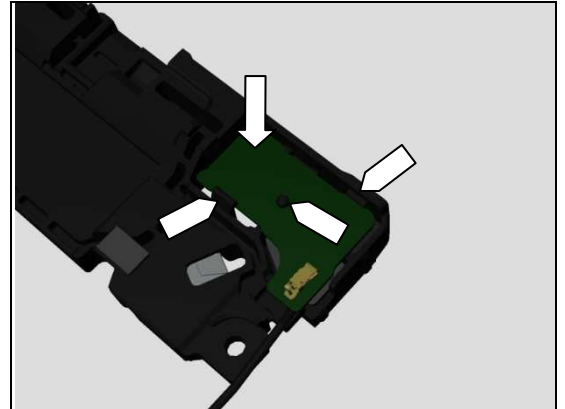
INSTALLATION

Connect the RF Cable.



Replacement: PBA Sub-L39t/L39u Specific

Press to snap the new PBA Sub into its cavity by aligning with the guiding hole as shown in picture.



Replacement

4.52 PBA Sub-C6916 Specific

C6916 Follow the 3.2.2 – 3.2.11 Disassembly instructions!

Prepare a new PBA Sub.

C6916 Follow the 5.2.3 – 5.2.12 Reassembly instructions!

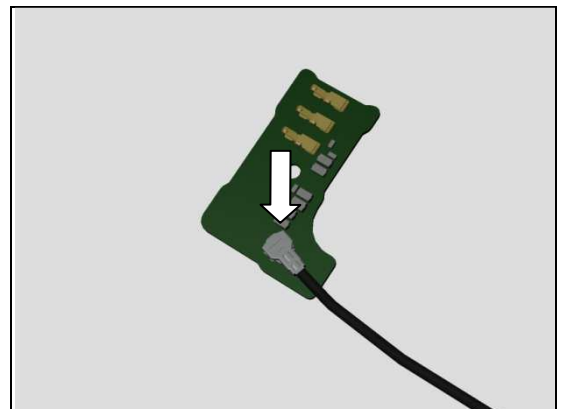
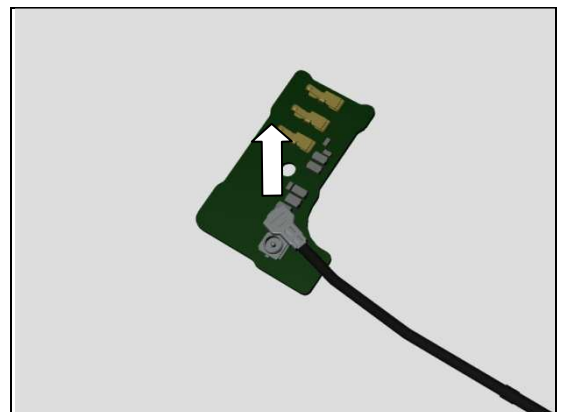
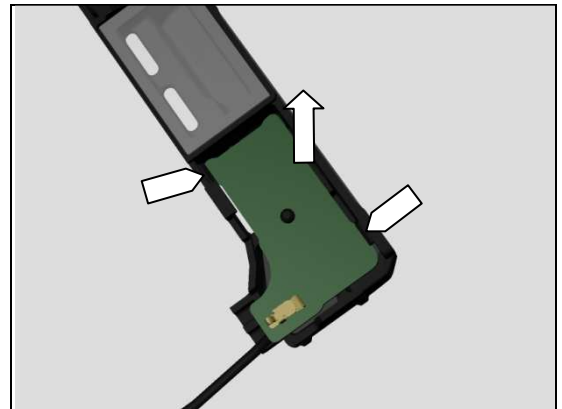
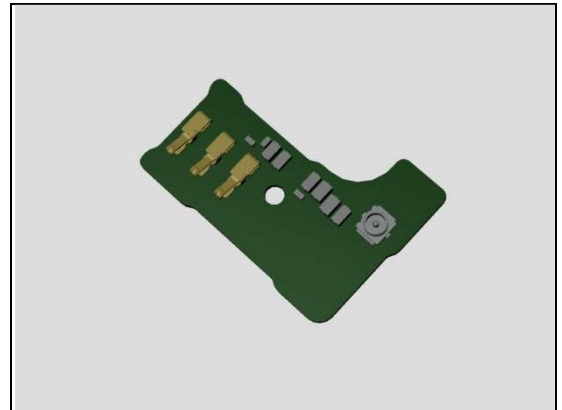
REMOVAL

Unsnap the two hooks by using the Front Opening Tool as shown in picture and remove the PBA Sub.

Disconnect the RF Cable.

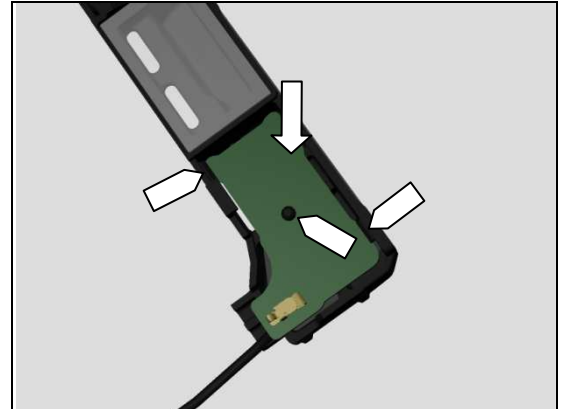
INSTALLATION

Connect the RF Cable.



Replacement: PBA Sub-C6916 Specific

Press to snap the new PBA Sub into its cavity by aligning with the guiding hole as shown in picture.



Replacement

4.53 PET Main Frame-L39t/L39u Specific

L39t/L39u Follow the 3.1.2 – 3.1.3 Disassembly instructions!

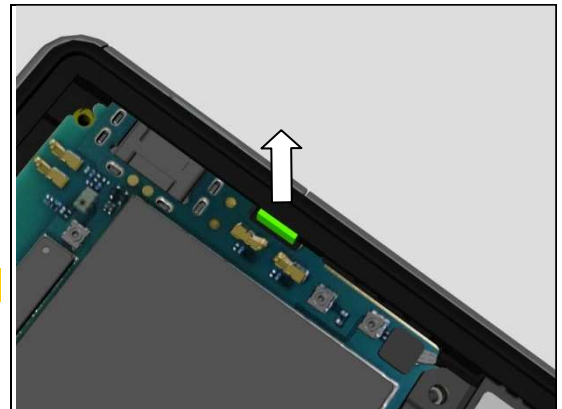
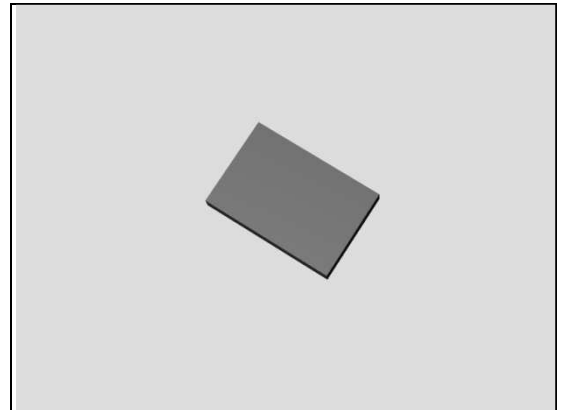
Prepare a new PET Main Frame.

L39t/L39u Follow the 5.1.10 – 5.1.11 Reassembly instructions!

REMOVAL

Detach the PET Main Frame by using a pair of Plastic Tweezers after the Sub Antenna Assy is disassembled.

Scrap! Not to be reused.



INSTALLATION

Insert to attach the PET Main Frame by using a pair of Plastic Tweezers after the Sub Antenna Assy is assembled.



Replacement

4.54 Plate Contact RF A

L39t/L39u Follow the 3.1.2 – 3.1.6 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.6 Disassembly instructions!

Prepare a new Plate Contact RF A.

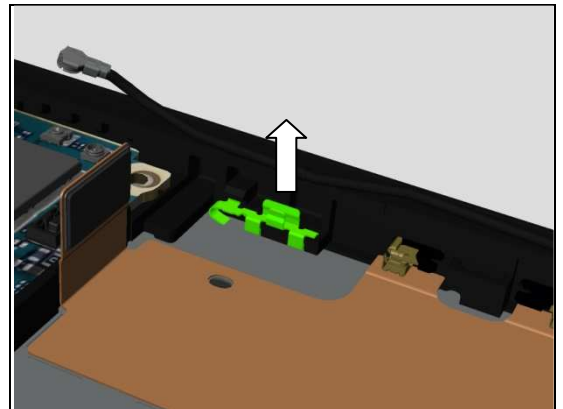
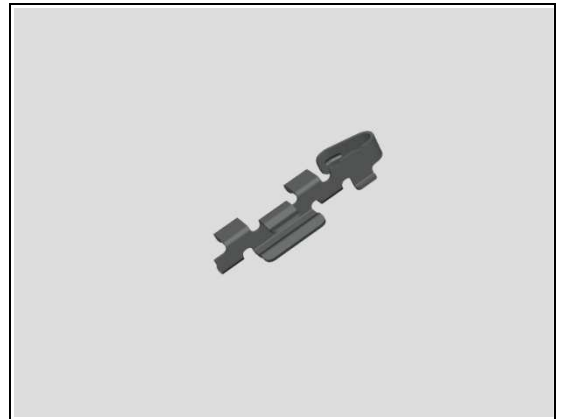
L39t/L39u Follow the 5.1.7 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.8 – 5.2.12 Reassembly instructions!

REMOVAL

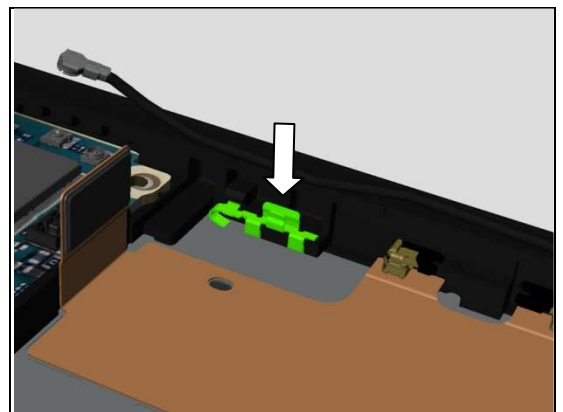
Remove the Plate Contact RF A by using tweezers.

Scrap! Not to be reused.

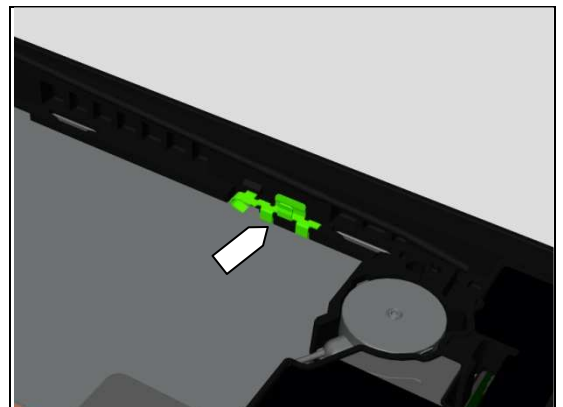


INSTALLATION

Press to snap a new Plate Contact RF A by using tweezers in its proper position as shown in picture.



Do the same to the other Plate Contact RF A.



Replacement

4.55 RF Cable

L39t/L39u Follow the 3.1.2 – 3.1.6 Disassembly instructions!

C6916 Follow the 3.2.2 – 3.2.11 Disassembly instructions!

L39t/L39u Follow the 4.51 Removal instructions!

C6916 Follow the 4.52 Removal instructions!

Prepare a new RF Cable.

L39t/L39u Follow the 4.51 Installation instructions!

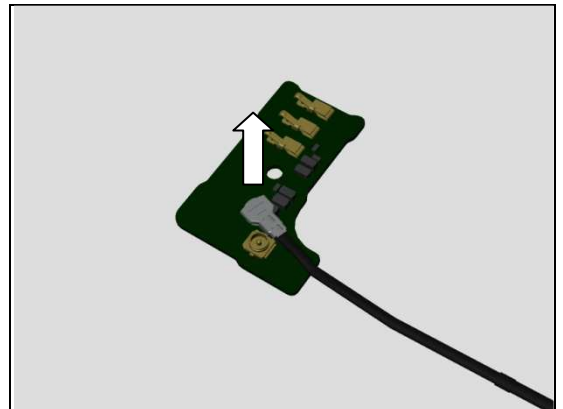
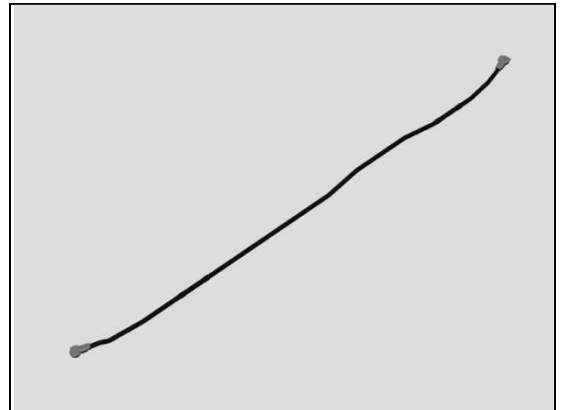
C6916 Follow the 4.52 Installation instructions!

L39t/L39u Follow the 5.1.7 – 5.1.11 Reassembly instructions!

C6916 Follow the 5.2.3 – 5.2.12 Reassembly instructions!

REMOVAL

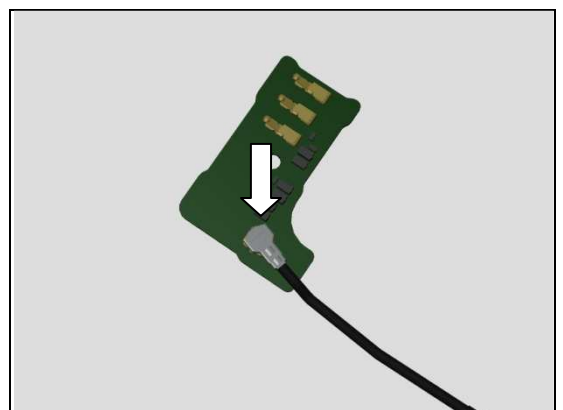
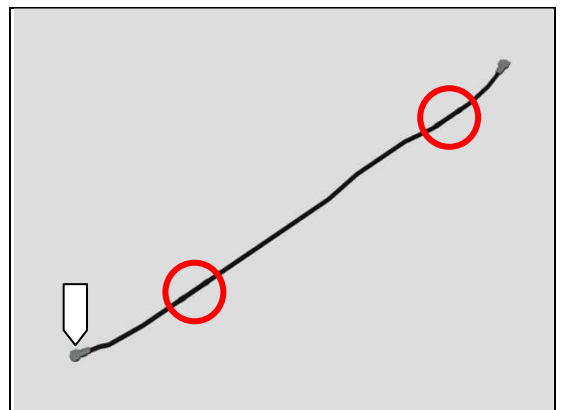
Disconnect the connector of the RF Cable.



INSTALLATION

Identify the two metal areas on the RF Cable.

The connector will be assembled as indicated by arrow shown in picture.



Press to snap the connector of the RF cable.

Replacement

4.56 Speaker Panel

Prepare a new Speaker Panel.

REMOVAL

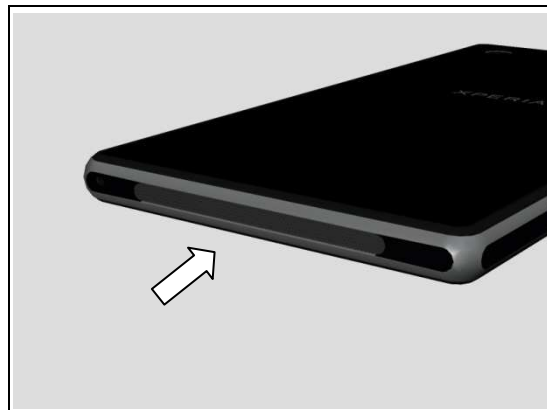
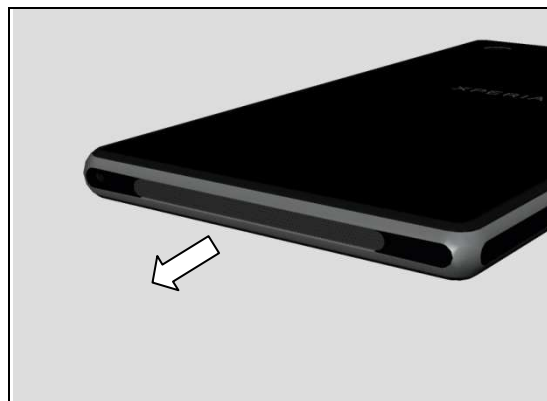
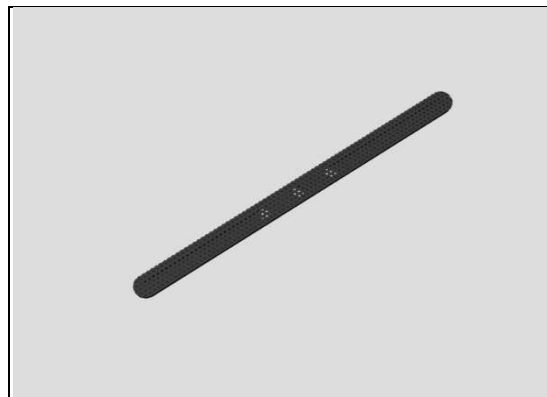
Detach to remove the Speaker Panel by using the Front Opening Tool.

Scrap! Not to be reused!

Make sure all remaining adhesive residue have been removed!

INSTALLATION

Attach a new Speaker Panel in its cavity as shown in picture.



Replacement

4.57 Tray Core Unit Label

L39t/L39u Follow the 3.1.1 – 3.1.12 Disassembly instructions!

C6916 Follow the 3.2.1 – 3.2.13 Disassembly instructions!

Prepare a new Tray Core Unit Label.

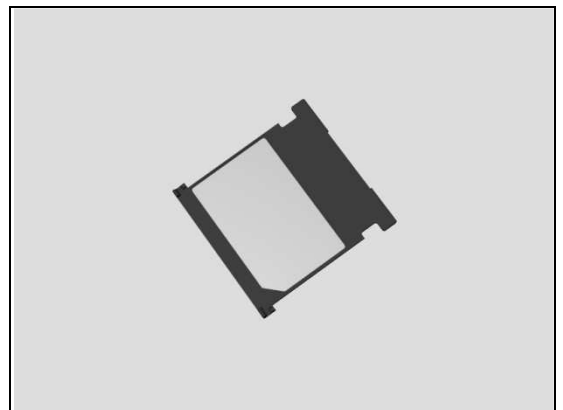
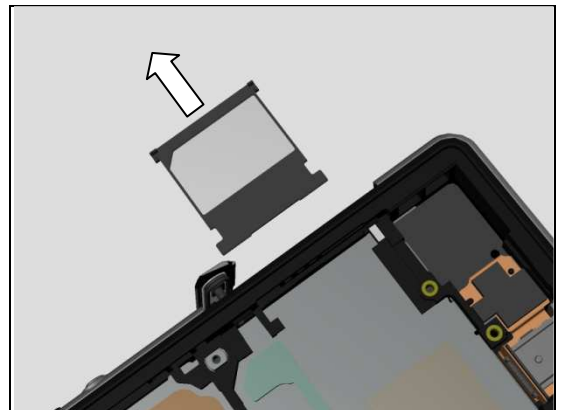
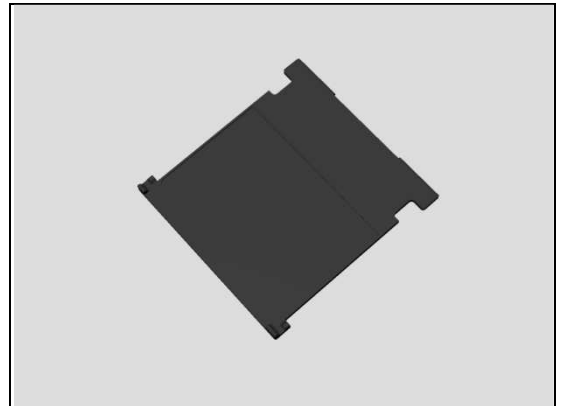
L39t/L39u Follow the 5.1.1 – 5.1.12 Reassembly instructions!

C6916 Follow the 5.2.1 – 5.2.13 Reassembly instructions!

REMOVAL

Open the Cap SIM.

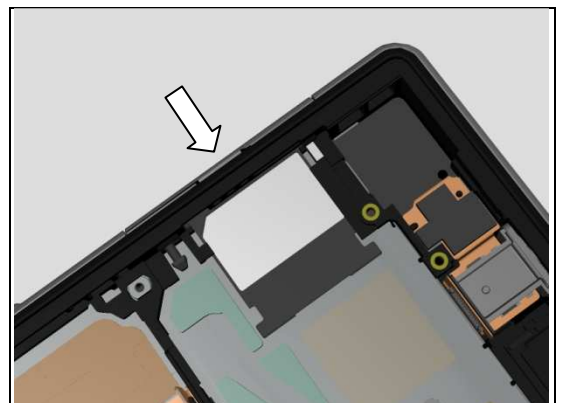
Remove the Tray Core Unit Label with fingers.



Follow the 4.37 Removal and Installation instructions to replace a new Core Unit Label.

INSTALLATION

Mount the new Tray Core Unit Label and close the Cap SIM.



Replacement

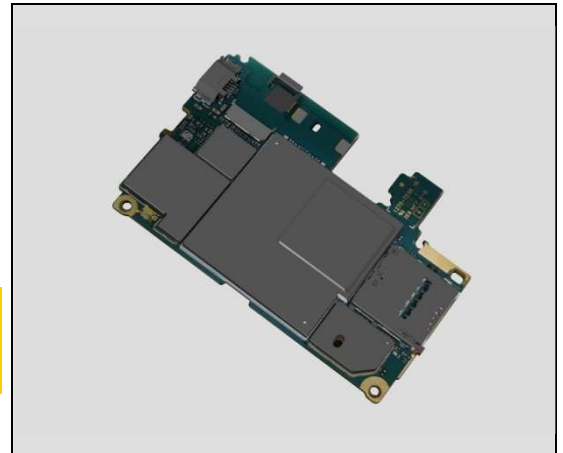
4.58 Board Swap – Replacement-L39t/L39u Specific

*L39t/L39u Follow the 3.1.1 – 3.1.11 Disassembly instructions!
Follow the 4.35, 4.34 and 4.40 Removal instructions!
Replace the Swap Board.*

Follow the 4.34, 4.35, 4.40, 4.36, 4.44 and 4.48 Installation instructions!

L39t/L39u Follow the 5.1.2 – 5.1.12 Reassembly instructions!

Perform Touch panel, Accelerometer and Gyroscope calibration when main board is replaced following the 1257-2706 Trouble Shooting Application – mechanical.



4.59 Board Swap – Replacement-C6916 Specific

*C6916 Follow the 3.2.1 – 3.2.12 Disassembly instructions!
Follow the 4.35 and 4.34 Removal instructions!
Replace the Swap Board.*

Follow the 4.34, 4.35, 4.36, 4.44 and 4.48 Installation instructions!

C6916 Follow the 5.2.2 – 5.2.13 Reassembly instructions!

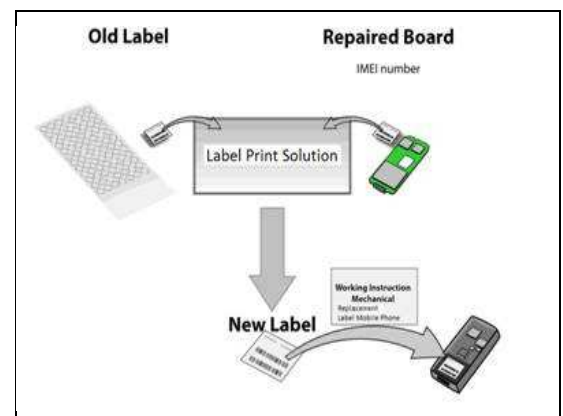
Perform Touch panel, Accelerometer and Gyroscope calibration when main board is replaced following the 1257-2706 Trouble Shooting Application – mechanical.



4.60 Board Swap – Change Label

CHANGE LABEL

Follow the instructions in the Generic Repair Manual – Build swap for change of label.

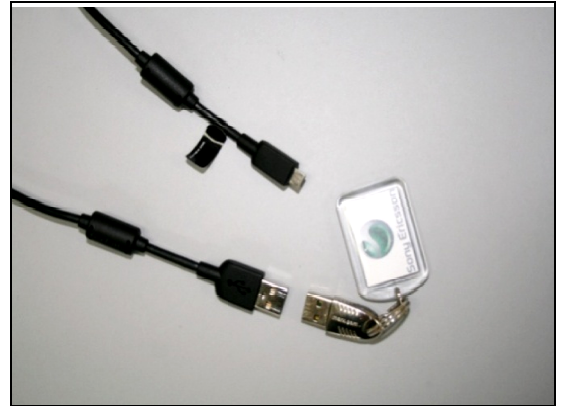


Replacement

4.61 Board Swap – Customize of Software

CUSTOMIZE OF SOFTWARE

Follow the instructions in the Generic Repair Manual –
Build swap for customization of the software.

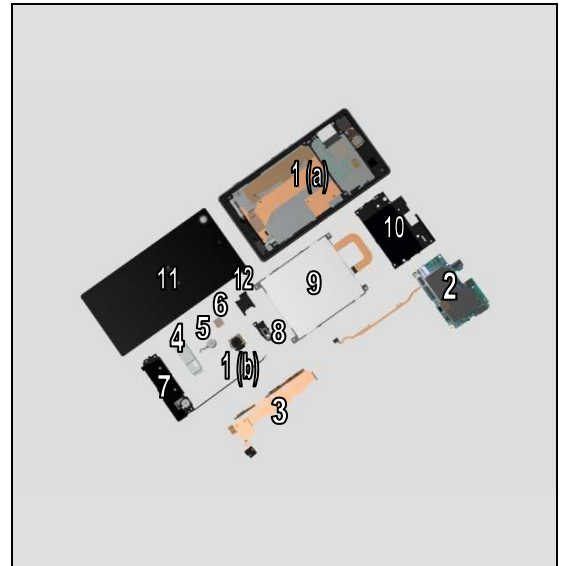


5 Reassembly

5.1 Reassembly-L39t/L39u Specific

The L39t/L39u reassembly is done in the following order:

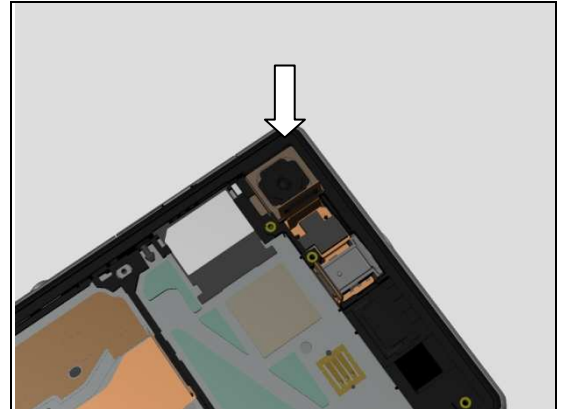
1. Display Frame Assy (a) and Camera & Camera Holder (b)
2. Main PBA & FPC Assy 2nd Antenna
3. FPC Assy Relay/Side Key
4. Shield Can LCD Component
5. Vibrator
6. Tape Vibrator Connector
7. Main Antenna Speaker Sub Assy & RF Cable & PBA Sub
8. Holder FPC Assy Audio Jack
9. Battery
10. Sub Antenna Assy
11. Window Back Sub Assy
12. SIM Tray



Reassembly

5.1.1 Display Frame Assy (a) and Camera & Camera Holder (b)

Mount the Camera and its Camera Holder into its cavity as shown in picture.

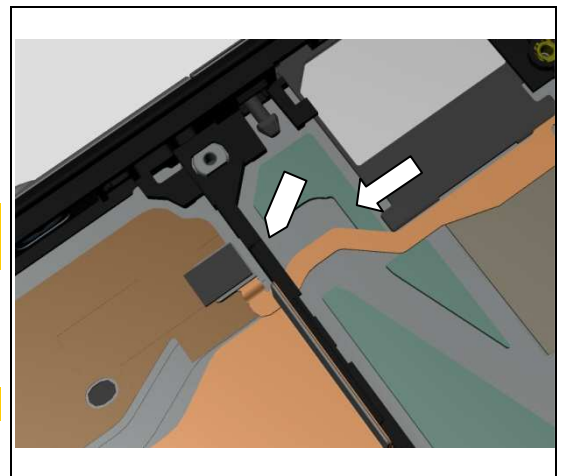


5.1.2 Main PBA & FPC Assy 2nd Antenna

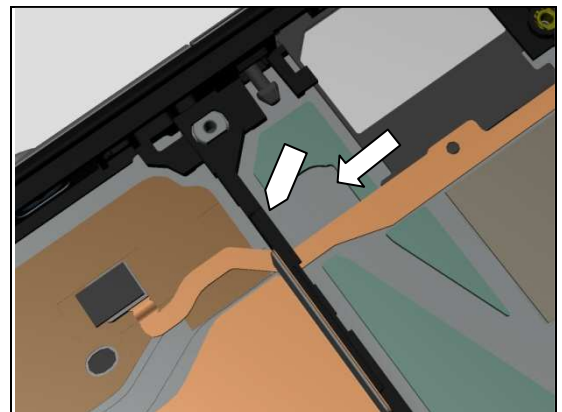
Follow the 4.23 Removal and Installation instructions to replace a new Adhesive Relay FPC.

Carefully thread the FPC Assy 2nd Antenna through the hole as shown in picture.

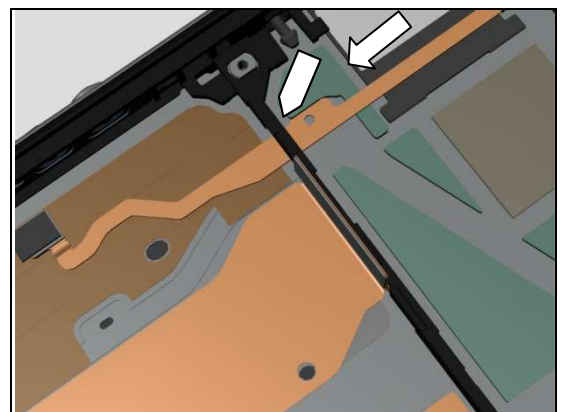
Do not damage the FPC!



Continue threading as shown in picture.

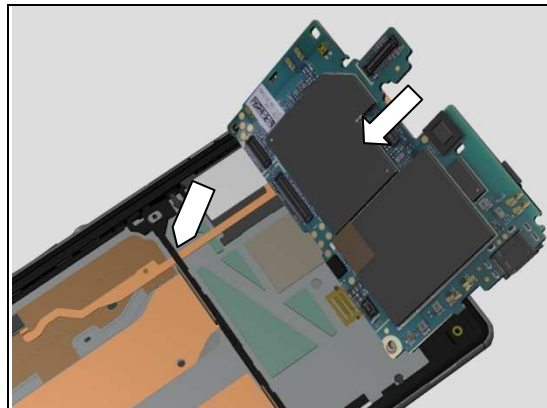


Continue threading as shown in picture.

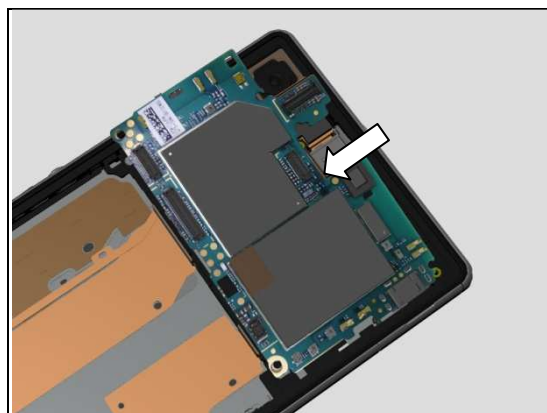


Reassembly

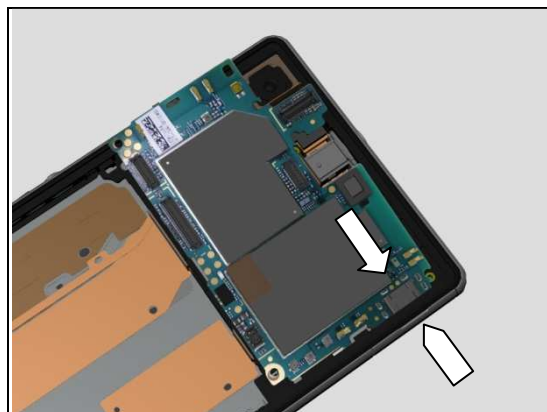
Mount the Main PBA while continuing threading the FPC as shown in picture.



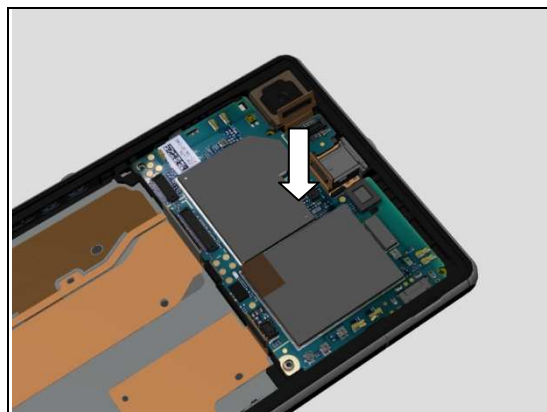
Mount the Main PBA to this position as shown in picture while continuing threading the FPC.



Move the Main PBA as shown in picture until the USB connector goes into its hole.



Press to secure the Main PBA into its cavity as shown in picture.



Reassembly

5.1.3 FPC Assy Relay/Side Key

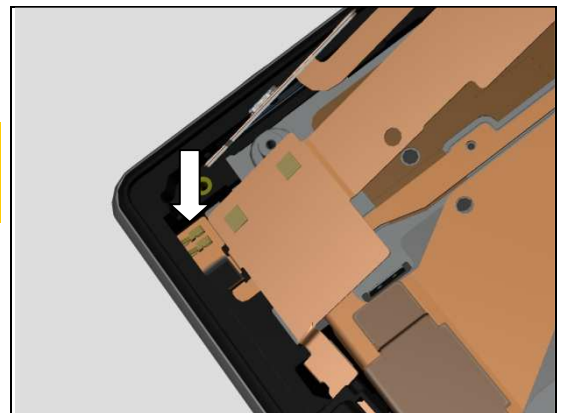
Follow the 4.22 Removal and Installation instructions to replace a new Adhesive Relay FPC Support.

Place the FPC Assy Relay/Side Key as shown in picture.

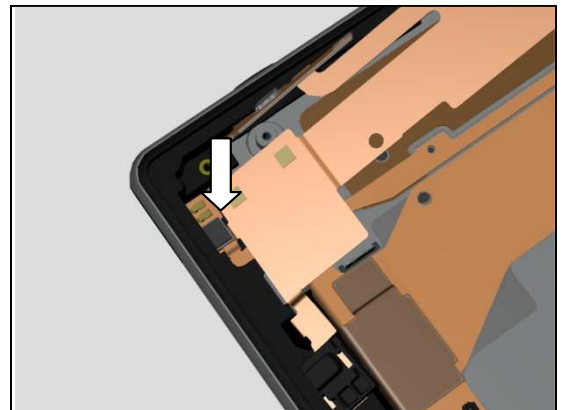


Follow the 4.21 Removal and Installation instructions to replace a new Adhesive Relay FPC RF Conn due to adhesive bonding strength is lost from disassembly.

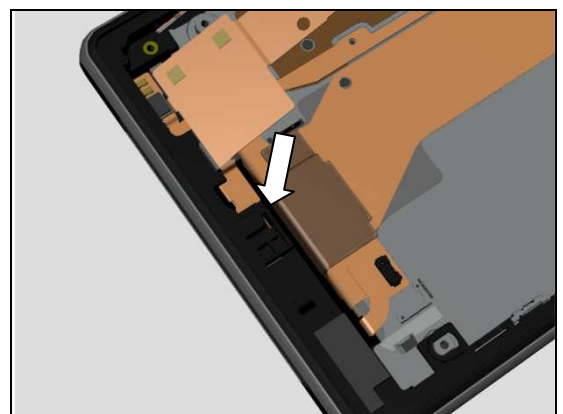
Attach RF connector part of the FPC Assy Relay/Side Key.



Press to snap the RF connector of the FPC Assy 2nd Antenna.



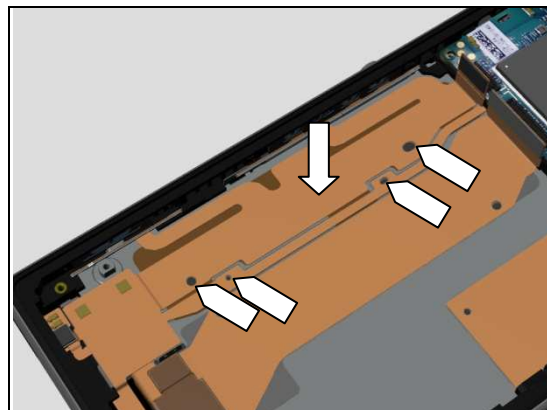
Mount 1st Mic part of the FPC Assy Relay/Side Key as shown in picture.



Reassembly

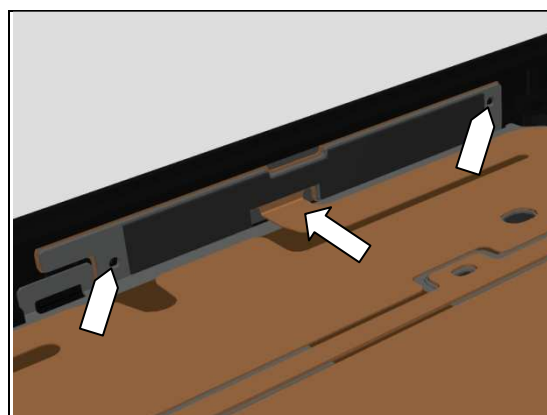
Attach the FPC Assy Relay/Side Key and the FPC Assy 2nd Antenna by aligning with the guiding holes as shown in picture.

Note! The copper contact area of the FPCs must be attached well.



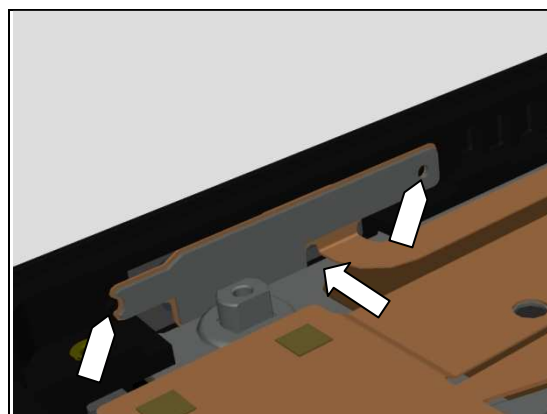
Follow the 4.26 and 4.27 Removal and Installation instructions to replace a new Adhesive Volume Key FPC Left and Adhesive Volume Key FPC Right.

Mount the side key FPC by aligning with the two guiding holes as shown in picture.



Follow the 4.17 and 4.18 Removal and Installation instructions to replace a new Adhesive Camera Key FPC Left and Adhesive Camera Key FPC Right.

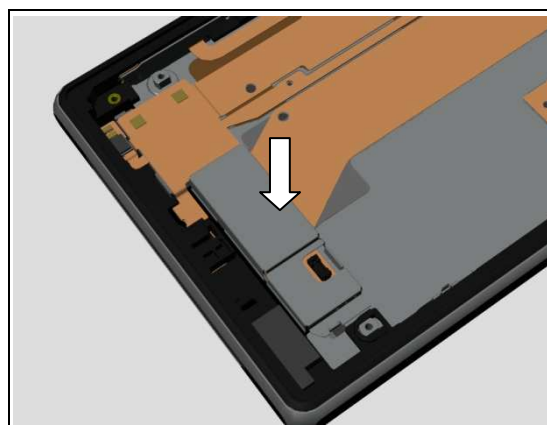
Mount the camera key FPC by aligning with the two guiding holes as shown in picture.



5.1.4 Shield Can LCD Component

Follow the 4.25 Removal and Installation instructions to replace a new Adhesive Shield Can LCD Component due to adhesive bonding strength is lost from disassembly.

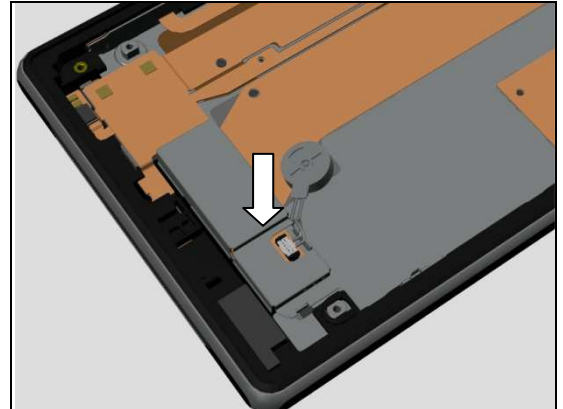
Attach the Shield Can LCD Component onto its proper position as shown in picture.



Reassembly

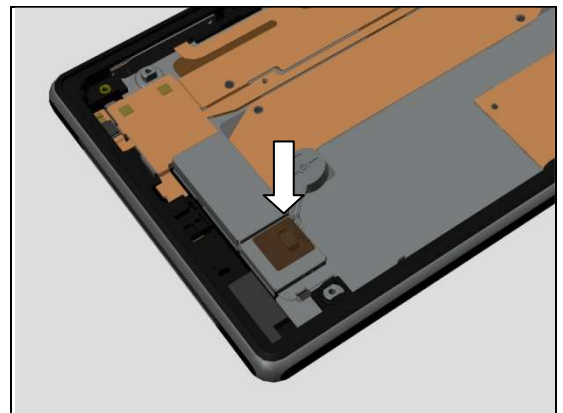
5.1.5 Vibrator

Press to snap the connector of the Vibrator.



5.1.6 Tape Vibrator Connector

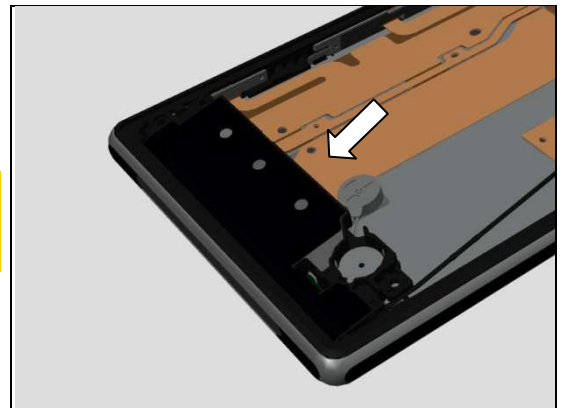
Attach a new Tape Vibrator Connector as shown in picture.



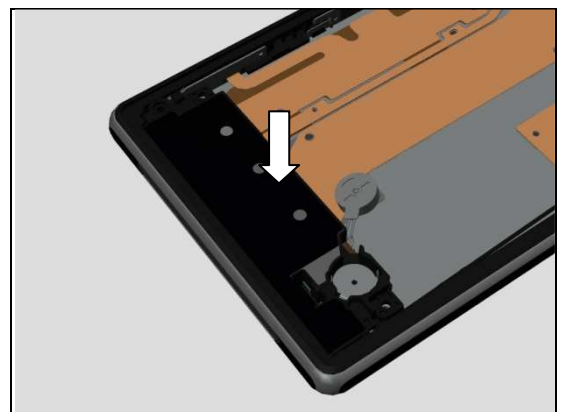
5.1.7 Main Antenna Speaker Sub Assy & RF Cable & PBA Sub

Follow the 4.45 Removal and Installation instructions to replace a new Gasket Antenna PBA Sub due to its damage from disassembly.

Insert to mount bottom side of the Main Antenna Speaker Sub Assy as shown in picture.

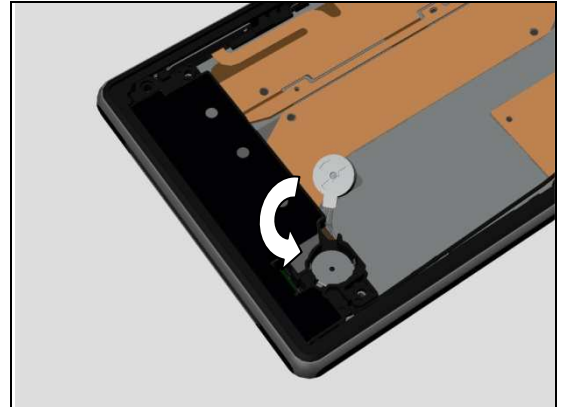


And then press to snap it.



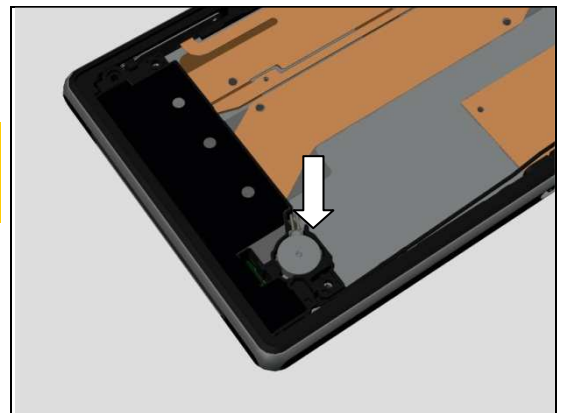
Reassembly

Rotate the Vibrator.



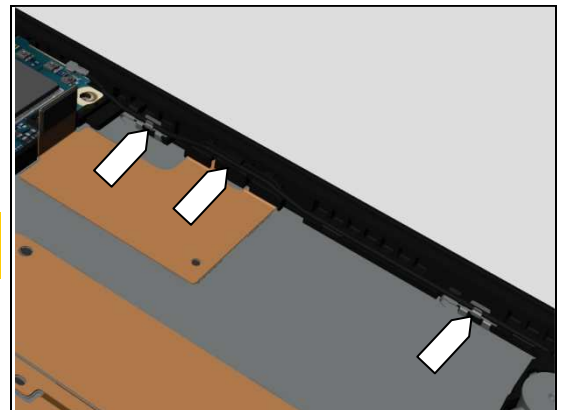
Follow the 4.33 Removal and Installation instructions to replace a new Carrier Plate Vibrator Sub Assy due to adhesive bonding strength is lost from disassembly.

Mount the Vibrator into its cavity and attach it.

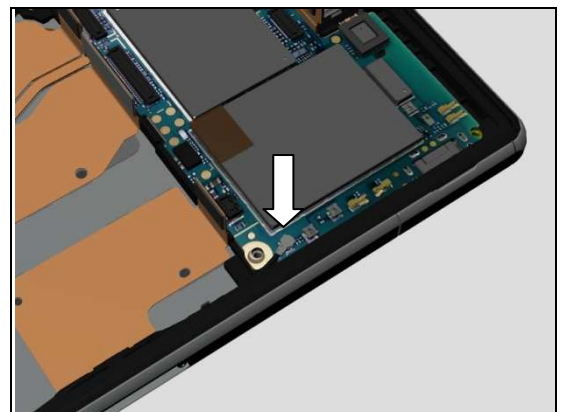


Mount the RF cable into its proper position as shown in picture.

Note! The metal area of the RF cable must be mounted into the Plate Contact RF A.

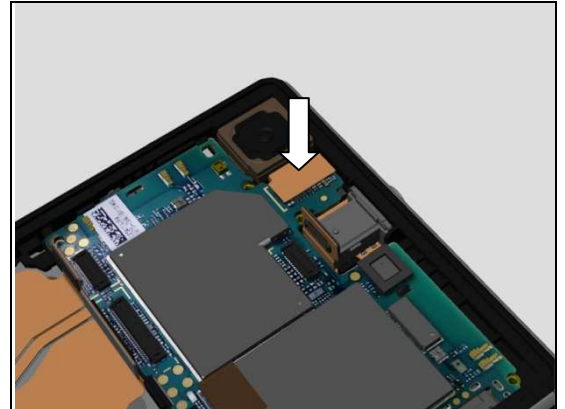


Press to snap the RF cable connector.

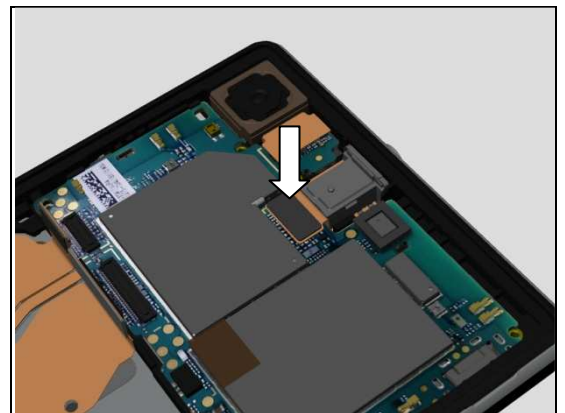


Reassembly

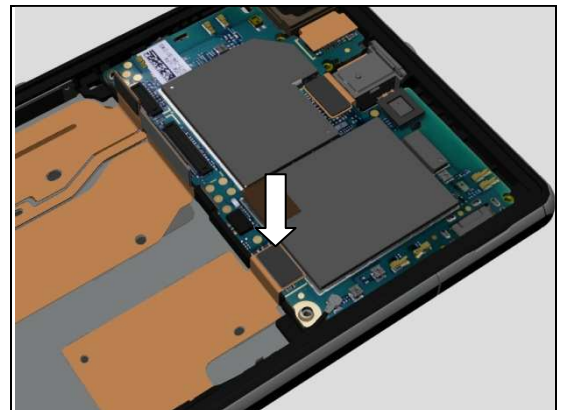
Press to snap the Camera FPC BtB connector.



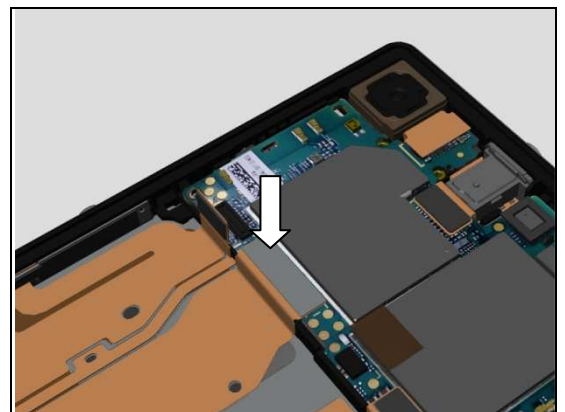
Press to snap the FPC Assy Audio Jack BtB connector.



Press to snap the FPC Assy Charger Pad BtB connector.

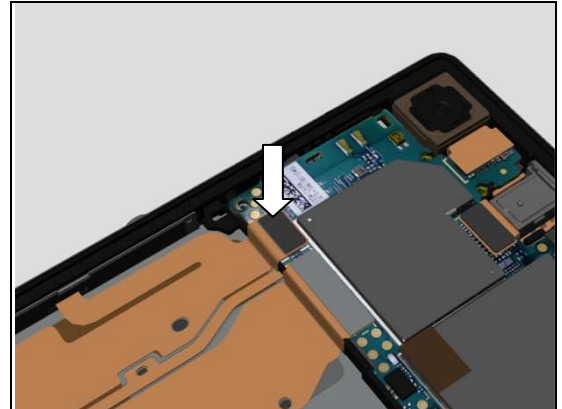


Press to snap the Display FPC BtB connector.



Reassembly

Press to snap the FPC Assy Relay/Side Key BtB connector.

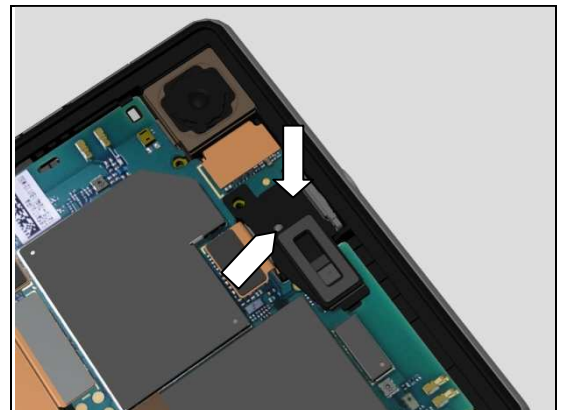


5.1.8 Holder FPC Assy Audio Jack

Replace a new Holder FPC Assy Audio Jack due to its hook is damaged from disassembly.

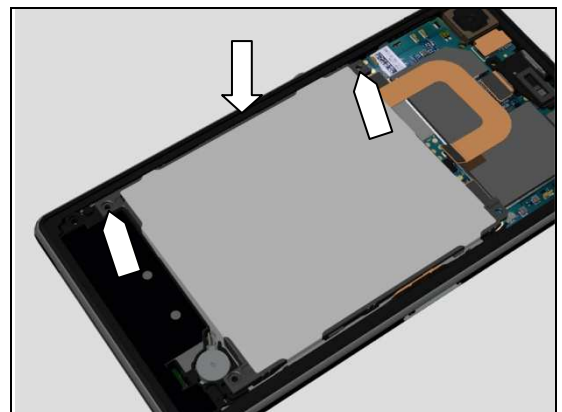


Press to snap the Holder FPC Assy Audio Jack by aligning with the guiding hole as shown in picture.



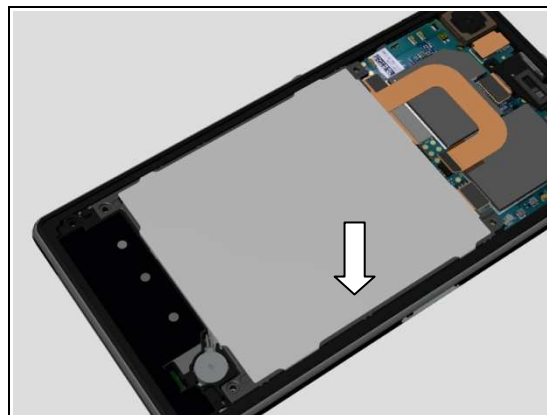
5.1.9 Battery

Mount the left side of the Battery by aligning with the two screw holes as shown in picture.

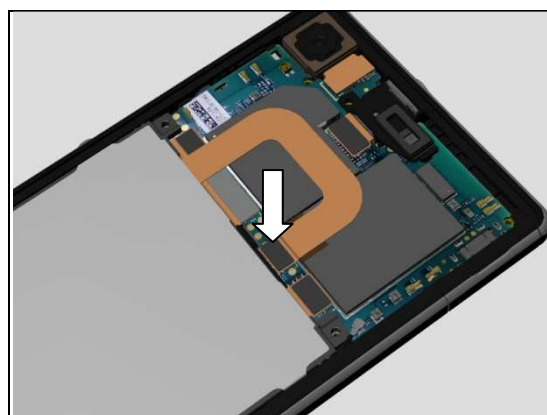


Reassembly

Press the right side of the Battery into its cavity.



Press to snap the Battery FPC BtB connector.

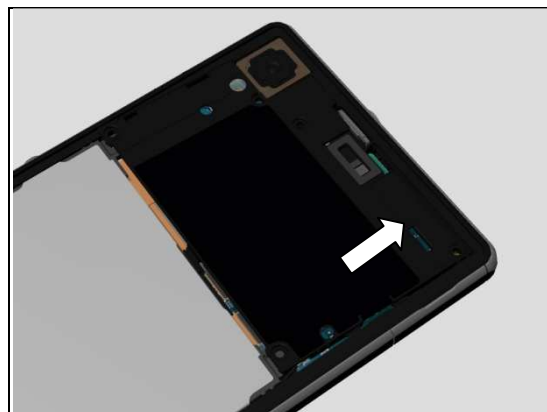


5.1.10 Sub Antenna Assy

Insert the top right side of the Sub Antenna Assy between the Main PBA and Display Frame Assy as shown in picture.



Move the Sub Antenna Assy as shown in picture.

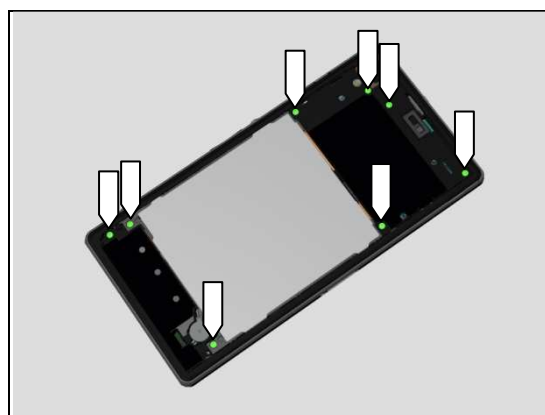


Reassembly

Press to snap the Sub Antenna Assy.



Apply 13Ncm±1Ncm torque when tightening the eight Screw
Other Len:4.0 Diam:1.4 with Torx Bits T4.



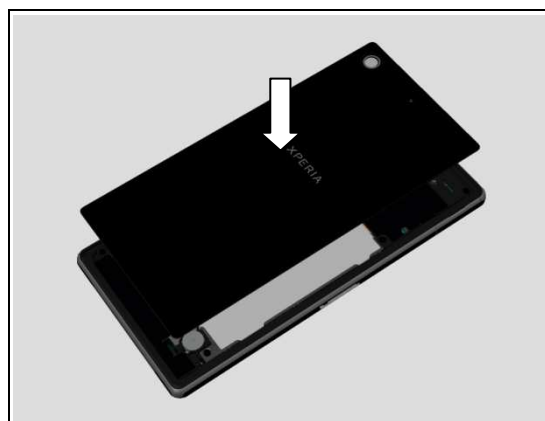
5.1.11 Window Back Sub Assy

Follow the 4.28 removal and installation instruction to replace a new Adhesive Window Back.

Use Isopropyl Alcohol - 99 % to clean around the Adhesive Window Back attaching area on the Display Frame Assy before assembly of the Window Back Sub Assy.



Place the Window Back Sub Assy onto the Display Frame Assy.



Reassembly

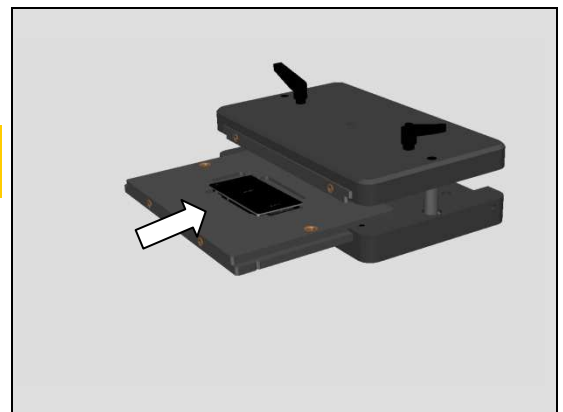
Make sure of a good alignment so the Window Back Sub Assy is centered.



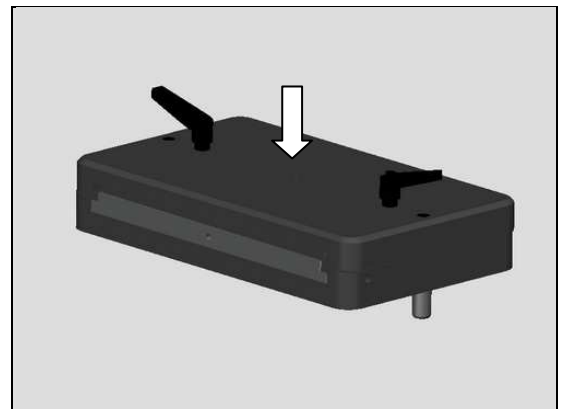
Upper inlay = Window Back Press Inlay

Lower inlay = Bottom Press Inlay

Place the phone in the Bottom Press Inlay and follow the instruction in 1003-9107 Tool Catalogue – mechanical and document Toothed Rack Press Instruction for use.



Press it with a pressure value of $440\text{N} \pm 50\text{N}$ for 10 sec. (pressure value is adjust from 550N because of the weight of the press fixture).



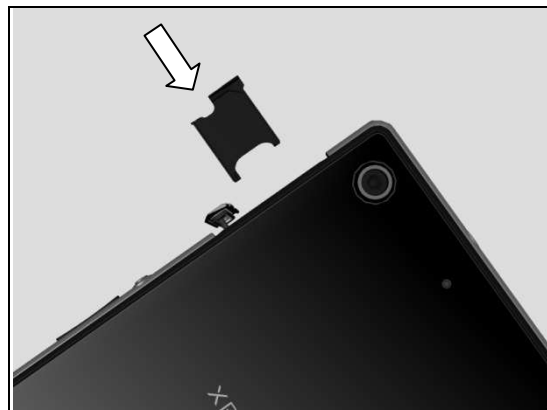
5.1.12 SIM Tray

Open the Cap SIM.



Reassembly

Insert the SIM Tray with fingers.



Close the Cap SIM.

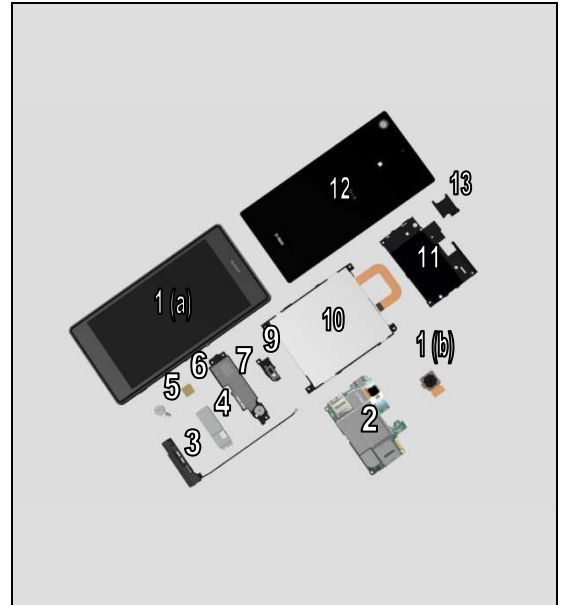


Reassembly

5.2 Reassembly-C6916 Specific

The C6916 reassembly is done in the following order:

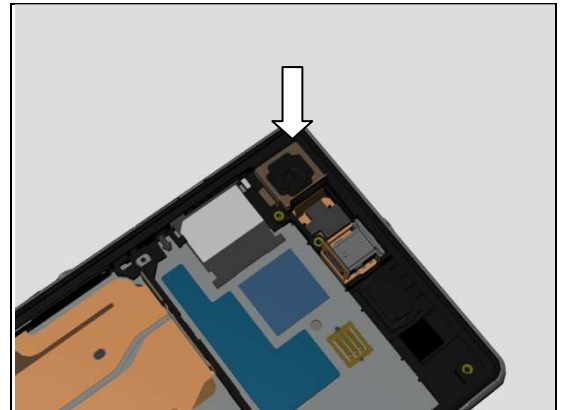
1. Display Frame Assy (a) and Camera & Camera Holder (b)
2. Main PBA
3. Main Antenna Assy & RF Cable & PBA Sub
4. Shield Can LCD Component
5. Vibrator
6. Tape Vibrator Connector
7. Speaker Sub Assy
8. Reassemble RF Cable to Display Frame Assy and Main PBA
9. Holder FPC Assy Audio Jack
10. Battery
11. Sub Antenna Assy
12. Window Back Sub Assy
13. SIM Tray



Reassembly

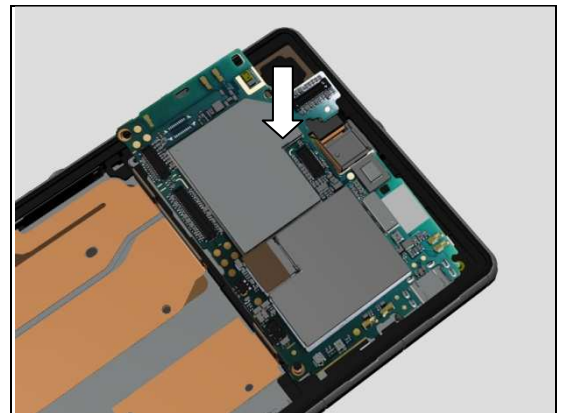
5.2.1 Display Frame Assy (a) and Camera & Camera Holder (b)

Mount the Camera and its Camera Holder into its cavity as shown in picture.

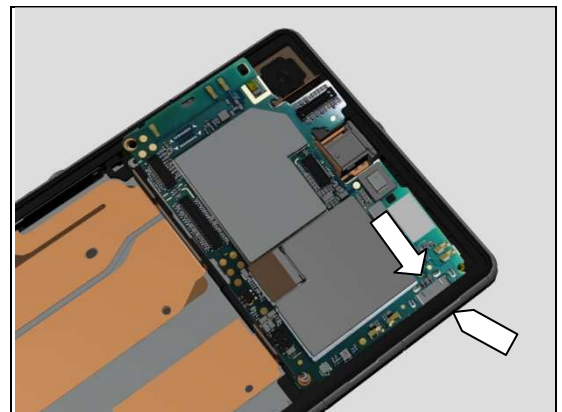


5.2.2 Main PBA

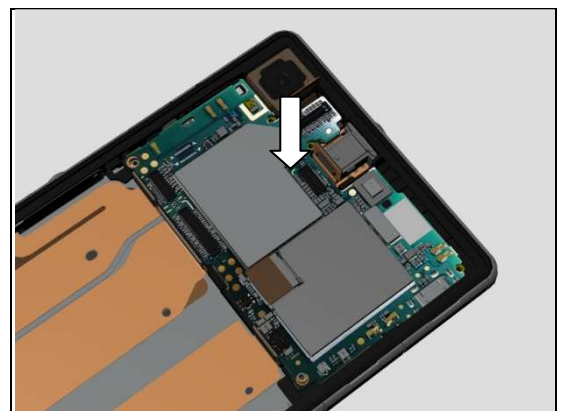
Mount the Main PBA into its cavity.



Move the Main PBA as shown in picture until the USB connector goes into its hole.

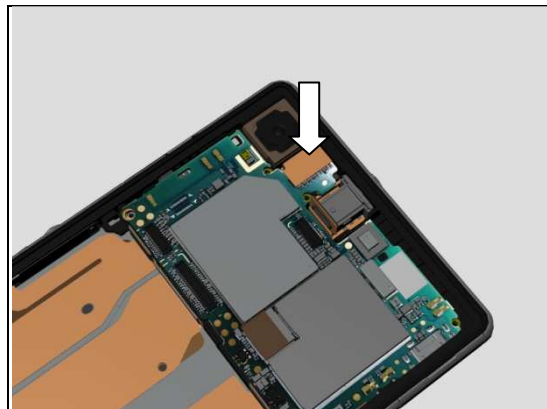


Press to secure the Main PBA into its cavity as shown in picture.

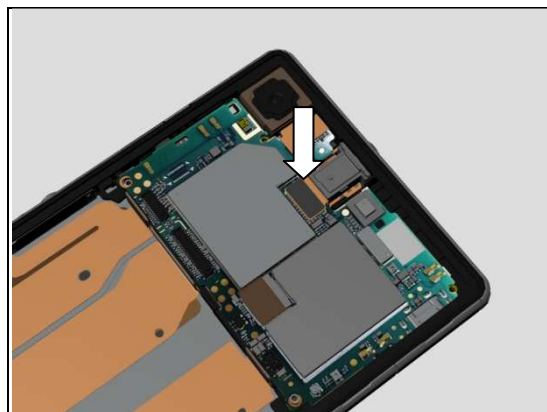


Reassembly

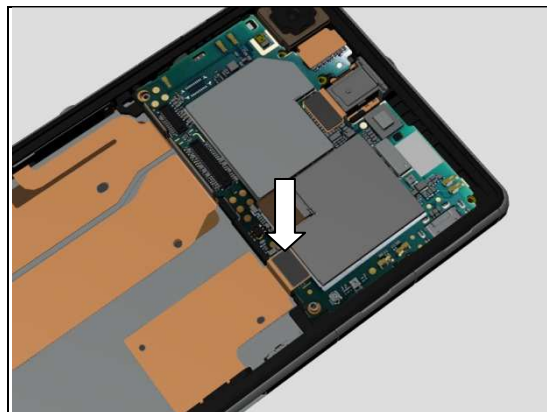
Press to snap the Camera FPC BtB connector.



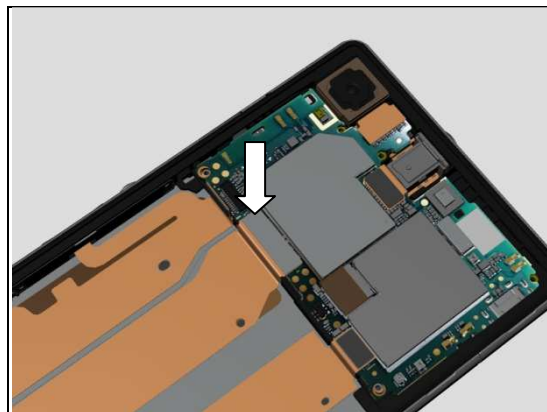
Press to snap the FPC Assy Audio Jack BtB connector.



Press to snap the FPC Assy Charger Pad BtB connector.

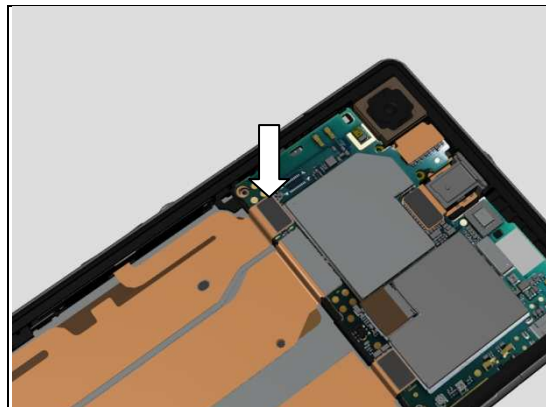


Press to snap the Display FPC BtB connector.



Reassembly

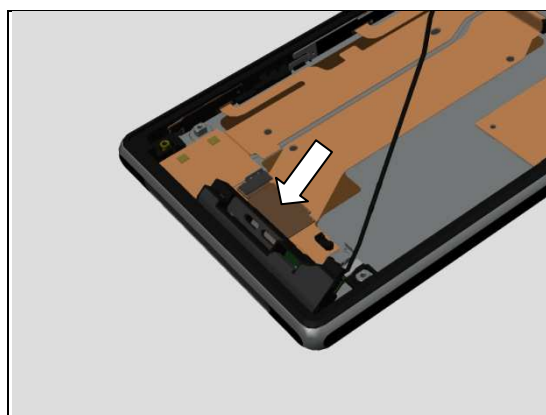
Press to snap the FPC Assy Relay/Side Key BtB connector.



5.2.3 Main Antenna Assy & RF Cable & PBA Sub

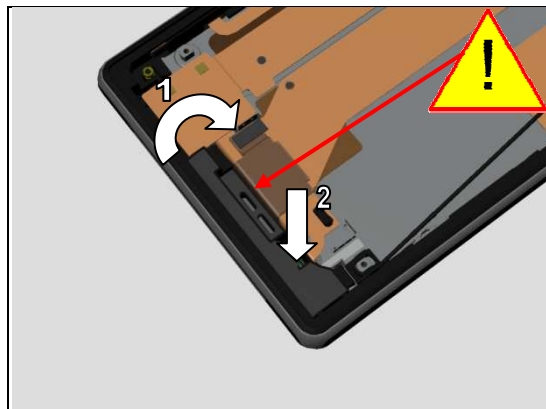
Follow the 4.45 Removal and Installation instructions to replace a new Gasket Antenna PBA Sub due to its damage from disassembly.

Insert to mount bottom side of the Main Antenna Assy as shown in picture.



And then rotate (1) and press (2) to snap it.

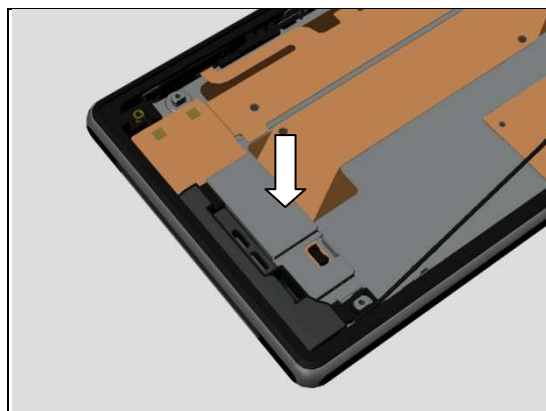
Be careful! Press and hold down the Display FPC to avoid contact with Main Antenna Assy when rotating!



5.2.4 Shield Can LCD Component

Follow the 4.25 Removal and Installation instructions to replace a new Adhesive Shield Can LCD Component due to adhesive bonding strength is lost from disassembly.

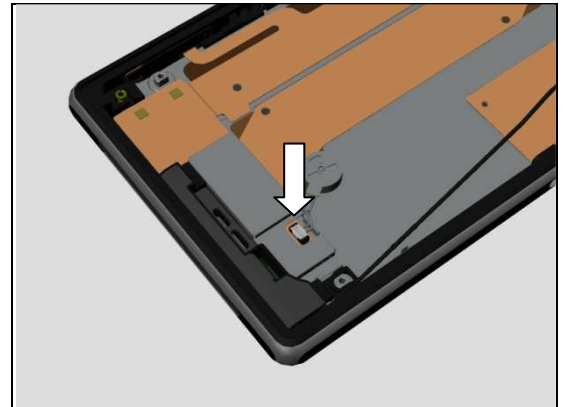
Attach the Shield Can LCD Component onto its proper position as shown in picture.



Reassembly

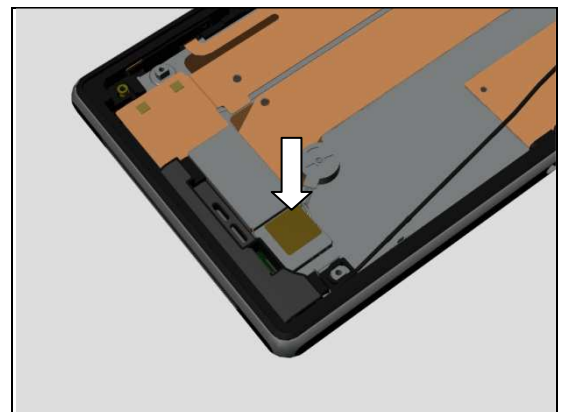
5.2.5 Vibrator

Press to snap the connector of the Vibrator.



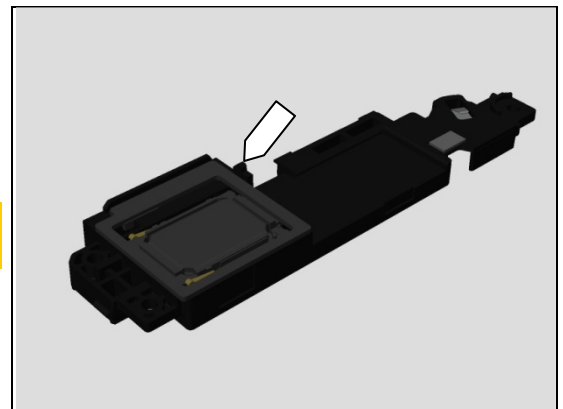
5.2.6 Tape Vibrator Connector

Attach a new Tape Vibrator Connector as shown in picture.

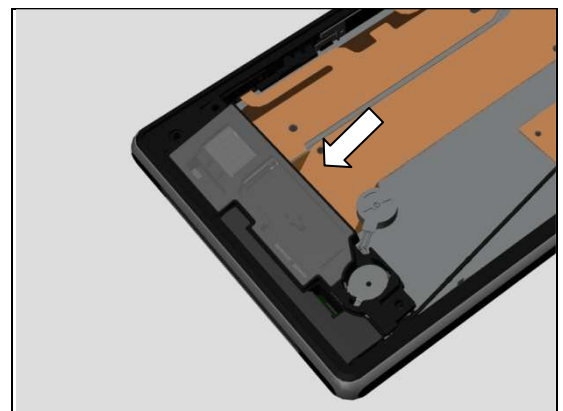


5.2.7 Speaker Sub Assy

Replace a new Speaker Sub Assy due to the hook as shown in picture is damage from disassembly.

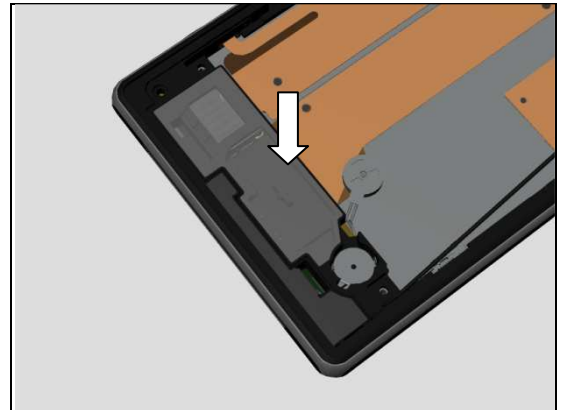


Insert to mount bottom side of the Speaker Sub Assy as shown in picture.

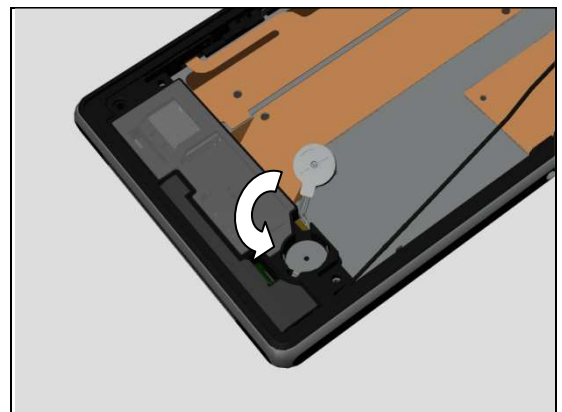


Reassembly

And then press to snap it.

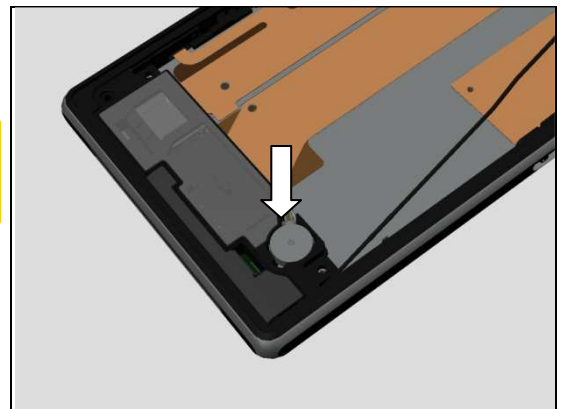


Rotate the Vibrator.



Follow the 4.33 Removal and Installation instructions to replace a new Carrier Plate Vibrator Sub Assy due to adhesive bonding strength is lost from disassembly.

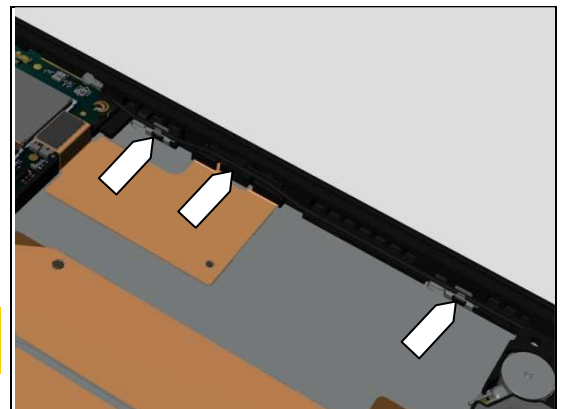
Mount the Vibrator into its cavity and attach it.



5.2.8 Reassemble RF Cable to Display Frame Assy and Main PBA

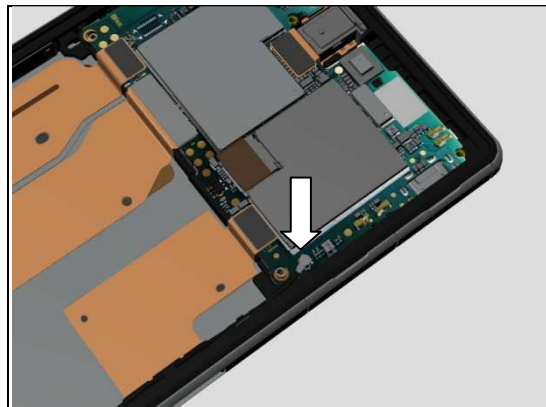
Mount the RF cable into its proper position as shown in picture.

Note! The metal area of the RF cable must be mounted into the Plate Contact RF A.



Reassembly

Press to snap the RF cable connector.

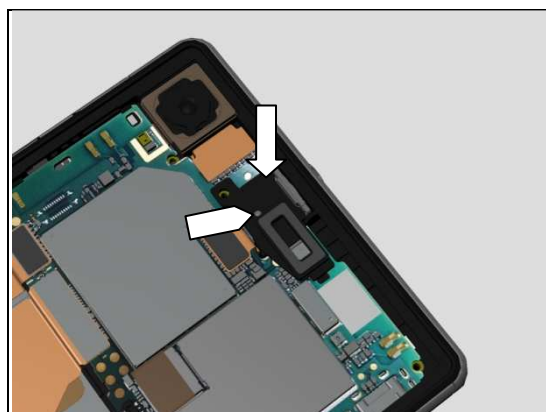


5.2.9 Holder FPC Assy Audio Jack

Replace a new Holder FPC Assy Audio Jack due to its hook is damaged from disassembly.

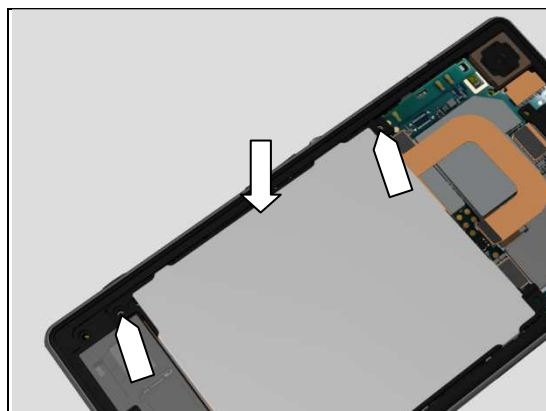


Press to snap the Holder FPC Assy Audio Jack by aligning with the guiding hole as shown in picture.



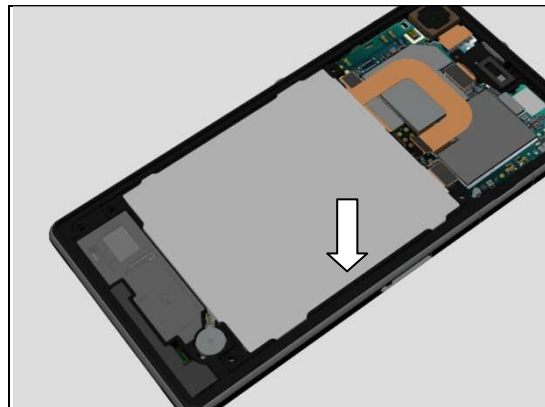
5.2.10 Battery

Mount the left side of the Battery by aligning with the two screw holes as shown in picture.

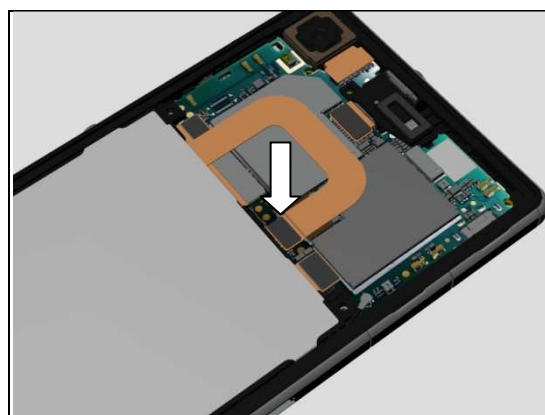


Reassembly

Press the right side of the Battery into its cavity.



Press to snap the Battery FPC BtB connector.



5.2.11 Sub Antenna Assy

Insert the top right side of the Sub Antenna Assy between the Main PBA and Display Frame Assy as shown in picture.



Move the Sub Antenna Assy as shown in picture.

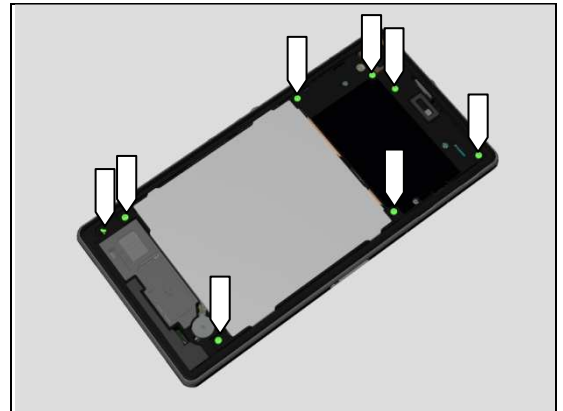


Reassembly

Press to snap the Sub Antenna Assy.



Apply 13Ncm±1Ncm torque when tightening the eight Screw
Other Len:4.0 Diam:1.4 with Torx Bits T4.



5.2.12 Window Back Sub Assy

Follow the 4.28 removal and installation instruction to replace a new Adhesive Window Back.

Use Isopropyl Alcohol - 99 % to clean around the Adhesive Window Back attaching area on the Display Frame Assy before assembly of the Window Back Sub Assy.



Place the Window Back Sub Assy onto the Display Frame Assy.



Reassembly

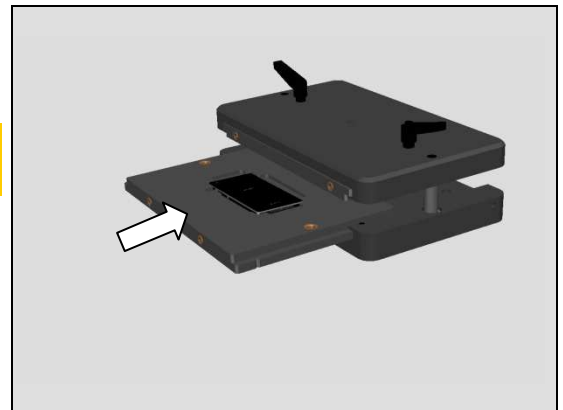
Make sure of a good alignment so the Window Back Sub Assy is centered.



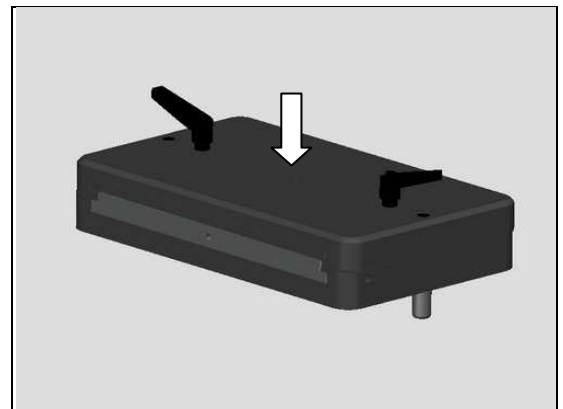
Upper inlay = Window Back Press Inlay

Lower inlay = Bottom Press Inlay

Place the phone in the Bottom Press Inlay and follow the instruction in 1003-9107 Tool Catalogue – mechanical and document Toothed Rack Press Instruction for use.



Press it with a pressure value of $440N \pm 50N$ for 10 sec. (pressure value is adjust from 550N because of the weight of the press fixture).



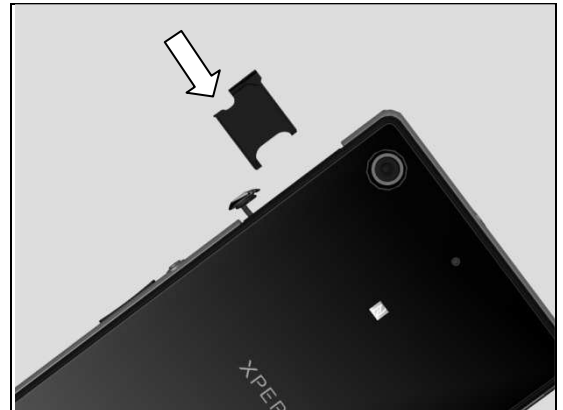
5.2.13 SIM Tray

Open the Cap SIM.



Reassembly

Insert the SIM Tray with fingers.



Close the Cap SIM.



6 Revision History

Rev.	Date	Changes / Comments
1	2013-Dec-06	Initial release
2	2013-Dec-15	Replace "1257-5706" with "1257-2706"
3	2013-Dec-22	Update the wording of some description.
4	2014-Jan-15	Added L39u and C6916
5	2014-May-07	Important, Board Swap – Replacement calibration have been updated
6	2014-Jun-25	Update pressure value for Window Back Sub Assy, new pressure value is 440N±50N.