Subject: 대전 롤러 샤프트의 녹에 의한 검은 반점 이미지에 대한 시정 조치

Model: TASKalfa 406ci

Classification: Field measures
timing: ☑ At Set Up ☑ Next Visit/Service Call ☑ Next Periodic Maintenance ☑ Information only

Phenomenon: ☑ SC/Error ☑ Paper Feeding/Conveying ☑ Other ☑ Machine operation

Type of change: ☑ Hardware ☑ Firmware and Software ☑ Information

Remarks: This time the description with (->) is revised from the previous information.
<Number of change:>(->) Full revision:
Based on this change, detaching/attaching the main charger unit is changed.
Therefore, this is fully revised.
And also, the timing to apply the change 1 and 2 is different due to the production adjustment in the factory, change the contents drastically.

Related SB: No.2R6-0004 (J015) [Note when detaching the main charger unit (Change the procedure due to the drive gear material change)]

For corrective measures for the black dot image with rusted main charger roller shaft and common use of the part, configuration of the drum unit and the main charger unit is changed as follows.
Based on the material change (Exterior color: White → Brown) of the main charger roller drive gear, it is necessary to note when detaching/attaching the new main charger unit.
Refer to the page 5 for the details.

[Content of changes] (Refer to the page 3 & 4 for the details)

<table>
<thead>
<tr>
<th>No</th>
<th>Purpose</th>
<th>Content of changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Corrective measures for the black dot image with rusted main charger roller shaft</td>
<td>Change the main charger roller as follows. 1-1. Change the material of the main charger roller shaft (Before) SUM material + Nickel plating → (After) SUS303 1-2. Based on the above change, change the adhesive condition of the shaft (SUS303) and the rubber roller</td>
</tr>
<tr>
<td>2</td>
<td>Easy identification and common use of the above 1</td>
<td>Component parts of the main charger unit and the drum unit are changed as follows. [Main charger unit] 2-1. Add the mark [N] to identify the new main charger roller on the main charger case 2-2. Change the material/shape of the main charger case. Based on this change, change the punch mark of the material indication. [Drum unit] 2-3. Change the material/exterior color of the main charger roller drive gear (White → Brown) 2-4. Based on the above change 2-2: change shape of the main charger case, change the shape of the HOLDER GEAR</td>
</tr>
</tbody>
</table>

Field Measure: - When the black dot image occurs, replace with the new main charger unit (New No.3 or New No.5)
Revised issue 1

Service Bulletin

Ref. No. 2R6-0003 (I116)

<Date> February 4, 2019

Based on the implementation of the change 2, there might be the possibility that the new and old drum unit/main charger unit do not have the compatibility for installation.

When replacing the main charger unit, apply the following. (No particular problems are expected for replacing the drum unit)

1) Check [N] mark on the main charger case of the drum unit (main charger unit) installed in the main unit
2) Check [N] mark on the main charger case of the main charger unit used for the part replacement
3) Depending on the result of 1) or 2), apply the following.
   - [N] mark is available in both the above 1) and 2) (newest condition for both the drum unit and the main charger unit) → No problem with the compatibility, replace the main charger unit
   - [N] mark is available in only the above 1) (Drum unit is newest, main charger unit is the old unit or only the main charger roller is in the newest condition) → No problem with the compatibility, replace the main charger unit
   - [N] mark is available in only the above 2) (Old drum unit, only the main charger unit is in the newest condition) → Obtain the main charger unit without [N] mark separately and replace it or, replace with the drum unit

* Refer to the [List of the installation compatibility for the new and old unit] below for the detail

When detaching/attaching the main charger unit, follow the procedure described in the page 5 that detach the main charger unit from the drum unit.

N00100456; N00100786; N00100787; N00101298;

[List of the installation compatibility for the new and old unit]

<table>
<thead>
<tr>
<th>Old main charger unit (Last digit “1” or older)</th>
<th>New main charger unit (Last digit “2” + no [N] mark)</th>
<th>New main charger unit (Last digit “2” + [N] mark)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old drum unit (Last digit “1” or older)</td>
<td>OK (Condition of before the corrective measures for the black image in terms of performance)</td>
<td>OK</td>
</tr>
<tr>
<td>New drum unit (Last digit “2” + no [N] mark)</td>
<td>OK (Condition of before the corrective measures for the black image in terms of performance)</td>
<td>OK</td>
</tr>
<tr>
<td>New drum unit (Last digit “2” + [N] mark)</td>
<td>OK (Condition of before the corrective measures for the black image in terms of performance)</td>
<td>OK</td>
</tr>
</tbody>
</table>

Note 1: Old HOLDER GEAR (Component part of the drum unit) interferes with the new main charger case of the new main charger unit (Last digit “2” + [N] mark), it is not possible to install.

When replacing the main charger unit with the machine before change No.2 (Refer to the affected serial no. in the page 5 & 6), it is necessary to obtain the new main charger unit (Last digit “2” + no [N]) or replace with the drum unit itself.

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Parts Table

* The last digit of the following part no. is changed based on the [Corrective measures for the black dot image with rusted main charger roller shaft (Change the main charger roller)]
The content of change 2 is applied from the middle of the production of the new last digit item (From middle of November 2018).

<table>
<thead>
<tr>
<th>No.</th>
<th>Old Part No.</th>
<th>New Part No.</th>
<th>Description</th>
<th>Q’ty</th>
<th>Compatibility</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Old</td>
<td>New</td>
<td>Old</td>
</tr>
<tr>
<td>1</td>
<td>302R693021</td>
<td>302R693022</td>
<td>DK-5215</td>
<td>4</td>
<td>4</td>
<td>X</td>
</tr>
<tr>
<td>2</td>
<td>302R69C021</td>
<td>302R69C022</td>
<td>DK-5215(CN)</td>
<td>4</td>
<td>4</td>
<td>X</td>
</tr>
<tr>
<td>3</td>
<td>302R693031</td>
<td>302R693032</td>
<td>+MC-5215</td>
<td>4</td>
<td>4</td>
<td>X</td>
</tr>
<tr>
<td>4</td>
<td>302R69K021</td>
<td>302R69K022</td>
<td>DK-5215(KR)</td>
<td>4</td>
<td>4</td>
<td>X</td>
</tr>
<tr>
<td>5</td>
<td>302R69K031</td>
<td>302R69K032</td>
<td>+MC-5215(KR)</td>
<td>4</td>
<td>4</td>
<td>X</td>
</tr>
</tbody>
</table>

*"+" mark at the beginning of the part name means it is a component part.
*1: Drum unit and the main charger unit: The following 3 types are available.

Depending on the combination, installation compatibility differs. Refer to the [List of the installation compatibility for the new and old unit in the previous page for the detail
- Last digit “1” or older
  - Last digit “2” + No [N] mark on the main charger case --- Main charger case: HOLDER GEAR is the old shape
  - Last digit “2” + [N] mark on the main charger case --- Main charger case: HOLDER GEAR is the new shape

*2: When replacing to the new main charger unit for the machine before change (Refer to the page 5 & 6 for the affected serial no.) of change No.2, check [N] mark on the main charger case of the main charger unit to use for the replacement.
  -> In case of no [N] mark: there is no problem with the compatibility, replace the main charger unit
  -> In case of [N] mark available: replace with the new main charger unit (Last digit “2”) with no [N] mark or, replace with the new drum unit.

*3: Common component parts for No.1 and No.2

Content of changes

[Change 1: Corrective measures for the black dots image] (Applied from the first production of the item (last digit “2”) of the drum/maincharger unit for the field service)
In case of storing the main charger roller, main charger roller unit, maintenance kit or the main unit for a long time, depending on storage environment, there might be the possibility that the main charger roller shaft gets rusted. And if using the main charger roller in this condition to print, the black spots might appear on images.

In order to prevent the rust of the main charger roller shaft, change the material of the main charger roller shaft and adhesive condition in between the shaft and the rubber roller.
(Ex: Main charger roller that gets rusted) (Ex: Black spots image)
[Change 2: Change component parts of the main charger unit and the drum unit]  
(Applied from the middle of the production of the item (last digit “2”) of the drum/maincharger unit for the field service)

Drum unit (No1, 2, 4) (Main unit rear side)

Main charger unit (No3, 5)

[Inside of the machine rear section of the drum/main charger unit] (Arrow view C: Some parts are not displayed)

HOLDER GEAR  
(Drum unit)

Main charger case  
(Main charger unit)

Main charger roller drive gear (Change 2-3: Change the material/exterior color)

[Change 2-1, 2-2]  
(Before) > ABS <  
(After) > PC+ABS-FR(40) <  
N  
Add [N] mark

Change exterior color  
(White → Brown)

[New main charger case (Arrow view A)]  
[New main charger roller drive gear]

[New main charger case (Arrow view B)]  
[Old HOLDER GEAR] (Opposite side of the main charger case)

Interference  
Add rib  

For adding the new main charger case and prevent interference, cut the shape
Procedure to detach the main charger unit

<table>
<thead>
<tr>
<th>No</th>
<th>Procedure</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Open the front cover</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Detach the waste toner box</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Remove the drum unit (a)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Turn over the drum unit (a)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>While pushing the side (Note 1) of the drive gear (X) in the direction of the arrow Y in Fig. 1 with a small-blade screwdriver, release the lock lever (b) (Note 2)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Keep the above condition and pull the main charger unit (c) by pushing it, and detach it from the drum unit (a) (In the order of Fig. 2 arrow ① → ②)</td>
<td></td>
</tr>
</tbody>
</table>

Note 1:
Do not push the teeth surface of the drive gear (X)

In case of pushing the teeth surface with the screwdriver, teeth of the gear get damaged and there might be the concern to the factor of the abnormal sound.

Note 2:
In case of the new main charger unit (Drive gear (X) is brown color), if trying to detach in the current procedure (if the drive gear is not pushed in the arrow Y direction), the drive gear (X) might come off from the main charger unit.

(By reattaching the main charger unit to the drum unit immediately, the drive gear (X) can be attached in the original position but make sure to check the operation. If it does not rotate correctly, there might be the concern to occur the abnormal image, etc. therefore, it is recommend to replace with the new main charger unit)

Serial No. of Affected Machines

Note: Use the main charger unit with the affected serial no. listed on the following [Affected serial no. Change1: Main charger roller] for the corrective measures of the black dot image

"3: The main units with "91" or later of the 4th and 5th digit serial no. is the new main charger unit
The following is the serial no. of the drum unit that has the new main charger unit mounted (The way to identify) 
(EX: [EGD028562908])

<table>
<thead>
<tr>
<th>Type of the drum unit</th>
<th>5th digit of the serial no. (Change 1: Main charger roller)</th>
<th>5th digit of the serial no. (Change 2: Except main charger roller)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st to 3rd digit of the serial no. (Prefix)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Drum unit bundled in the maintenance kit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Drum unit DK-5215 for the field service</td>
<td></td>
</tr>
<tr>
<td></td>
<td>302R69302</td>
<td></td>
</tr>
<tr>
<td></td>
<td>302R69C02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>302R69K02</td>
<td></td>
</tr>
<tr>
<td>EXD</td>
<td>Drum unit K, C, M for the factory (KDTW)</td>
<td>After [1] (Apply change 1 &amp; 2 at the same time)</td>
</tr>
<tr>
<td>EXE</td>
<td>Drum unit Y for the factory (KDTW)</td>
<td>After [1] (Apply change 1 &amp; 2 at the same time)</td>
</tr>
</tbody>
</table>