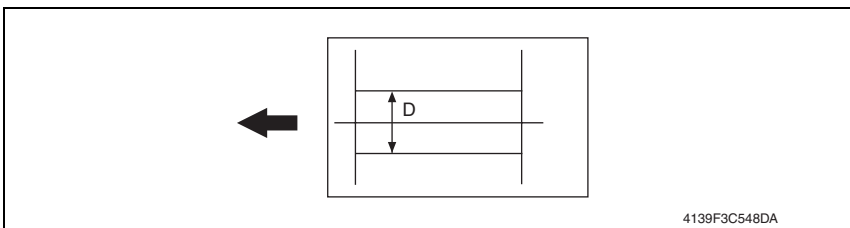


13.4 ADJUST

13.4.1 CIS MAIN ZOOM

A. Use

- To adjust for variations in the accuracy of IR parts and their mounting accuracy by varying the scanning zoom ratio in the main scanning direction.
- When the scanner unit has been replaced.
- Adjust the width of D in the copy of the test pattern1 so that the following specification is met.
- $100 \pm 0.5\%$ (Zoom Ratio = Full Size:100%)



B. Procedure

- The default setting is 0%.

-2%~ +2%; step: 0.2%

1. Print the test pattern1.

[See P.151](#)

2. Enter the [ADJUST] menu in the service mode.
3. Select [CIS MAIN ZOOM] of [ADJUST] and press the Select key.
4. Place the test pattern1 on the original glass and make a test copy.

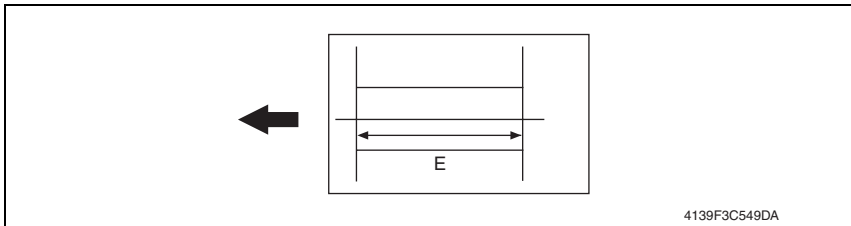
NOTE

- **The test pattern1 should be positioned vertically.**
 - **Use A4 or Letter paper loaded into tray1 to make the test copy.**
5. Check that the width of D in the copy of the test pattern1 meets the specification.
Calculation: $(1 - \text{Width of D in the document} \div \text{Width of D in the copy}) \times 100$
If the width of D is out of specification, adjust it according to the following procedure.
 6. Press the Select key.
 7. Using the $\blacktriangle/\blacktriangledown$ key, change the setting value and then press the Select key.
 8. Place the test pattern1 on the original glass. Then, make a test copy again and check it.
- <Adjustment instructions>
- If the width of D in the test pattern is longer than the specified width.. Decrease the setting.
If the width of D in the test pattern is shorter than the specified width.. Increase the setting.

13.4.2 CIS SUB ZOOM

A. Use

- To adjust for variations in the accuracy of IR parts and their mounting accuracy by varying the scanning zoom ratio in the sub-scanning direction.
- When the Scanner unit has been replaced
- Adjust the width of E in the copy of the test pattern1 so that the following specification is met.
- $200 \pm 0.5\%$ (Zoom Ratio = Full Size:100%)



B. Procedure

- The default setting is 0%.

-2.0% ~ "0%" ~ +2.0%; Step: 0.2%

1. Print the test pattern1.
[See P.151](#)
2. Enter the [ADJUST] menu in the service mode.
3. Select [CIS SUB ZOOM] of [ADJUST] and press the Select key.
4. Place the test pattern1 on the original glass and make a test copy.

NOTE

- **The test pattern1 should be positioned vertically.**
 - **Use A4 or Letter paper loaded into tray1 to make the test copy.**
5. Check that the width of E in the copy of the test pattern1 meets the specification.
Calculation: $(1 - \text{Width of E in the document} \div \text{Width of E in the copy}) \times 100$
If the width of E is out of specification, adjust it according to the following procedure.
 6. Press the Select key.
 7. Using the $\blacktriangle/\blacktriangledown$ key, change the setting value and then press the Select key.
 8. Place the test pattern1 on the original glass. Then, make a test copy again and check it.
- <Adjustment instructions>
If the width of E in the test pattern is longer than the specified width.. Decrease the setting.
If the width of E in the test pattern is shorter than the specified width.. Increase the setting.

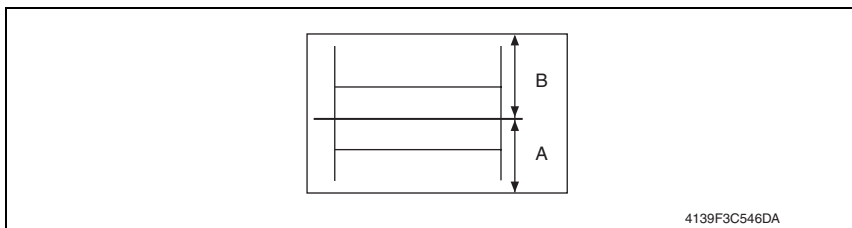
13.4.3 CIS MAIN REGIST

A. Use

- To adjust for variations in the accuracy of IR parts and their mounting accuracy by varying the scanning start position in the main scanning direction.
- When the original glass is replaced.
- When the Scanner unit has been replaced.

NOTE

- **After the [CIS MAIN ZOOM] adjustments have been performed**
- Adjust the amount that widths A and B in the copy of the test pattern1 so that the following specification is met.
- 0 ± 2.0 mm



B. Procedure

- The default setting is 0.
-1.5 (-1.5 mm) ~ "0.0 (0.0 mm)" ~ +1.5 (+1.5 mm); Step: 0.5 mm
1. Print the test pattern1.
[See P.151](#)
 2. Enter the [ADJUST] menu in the service mode.
 3. Select [CIS MAIN REGIST] of [ADJUST] and press the Select key.
 4. Place the test pattern1 on the original glass and make a test copy.

NOTE

- **The test pattern1 should be positioned vertically.**
 - **Use A4 or Letter paper loaded into tray1 to make the test copy.**
5. Check the amount that widths A and B in the copy of the test pattern are shifted.
If the shift is out of specification, adjust it according to the following procedure.
 6. Press the Select key.
 7. Using the ▲/▼ key, change the setting value and then press the Select key
 8. Place the test pattern1 on the original glass. Then, make a test copy again and check it.

<Adjustment instructions>

If the width of A is less than the width of B..... Increase the setting.

If the width of B is less than the width of A..... Decrease the setting.

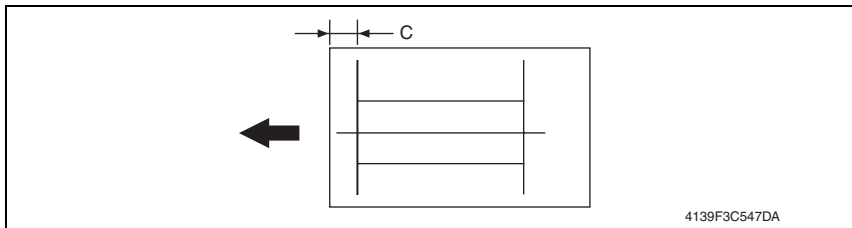
13.4.4 CIS SUB REGIST

A. Use

- To adjust for variations in the accuracy of IR parts and their mounting accuracy by varying the scanning start position in the sub-scanning direction.
- When the original glass is replaced.
- When the Scanner unit has been replaced.

NOTE

- **After the [CIS SUB ZOOM] adjustments have been performed.**
- Adjust the width of C in the copy of the test pattern1 so that the following specification is met.
- 20 ± 2.5 mm



B. Procedure

- The default setting is 0.

-5.0 (-5.0 mm) ~ "0 (0 mm)" ~ +5.0 (+5.0 mm); Step: 0.5 mm

1. Print the test pattern1.
[See P.151](#)
2. Enter the [ADJUST] menu in the service mode.
3. Select [CIS SUB REGIST] of [ADJUST] and press the Select key.
4. Place the test pattern1 on the original glass and make a test copy.

NOTE

- **The test pattern1 should be positioned vertically.**
 - **Use A4 or Letter paper loaded into tray1 to make the test copy.**
5. Check that the width of C in the copy of the test pattern are shifted.
If the width of C is out of specification, adjust it according to the following procedure.
 6. Press the Select key.
 7. Using the ▲/▼ key, change the setting value and then press the Select key.
 8. Place the test pattern1 on the original glass. Then, make a test copy again and check it.

<Adjustment instructions>

If the width of C in the test pattern is longer than the specified width.. Increase the setting.
If the width of C in the test pattern is shorter than the specified width.. Decrease the setting.