



GA645 *ī* / GA645W *ī*
Professional Professional

REPAIR PROGRAM Ver 1.0 XE

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PERSONAL COMPUTER MEASUREMENT SYSTEM
OPERATION MANUAL

This repair program can be used with the GA645 i and GA645W i.

FUJI PHOTO FILM CO., LTD.

NEC PC98 REPAIR PROGRAM PRECAUTIONS

The system is supplied on the data disk and cannot be used as it is. Install it in accordance with the following repair disk creation procedure.

REPAIR DISK CREATION PROCEDURE

- [1] Insert the repair disk creation tool into drive 1 of the personal computer.
- [2] Insert the repair data disk into drive 2.
- [3] Turn on the personal computer power.
- [4] When operation is performed in accordance with the procedure given above, the data disk inserted into drive 2 is completed as the repair disk.

[Note 1] If the disk is inserted incorrectly, etc. a message will be displayed. Follow the instructions given in the message.

[Note 2] Write-protect the created repair disk.
(See Fig. 1.)

Lower this knob.
(From the rear)

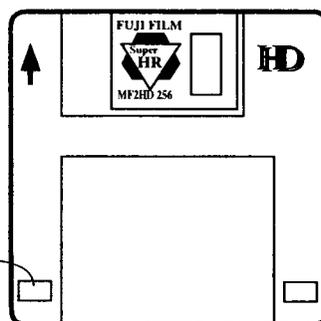


Fig. 1

IBM DOS/V REPAIR PROGRAM PRECAUTIONS

[I/O BOARD SWITCH SETTING]

Set the switches on the I/O board as shown in Fig. 2.

[I/O BOARD INSERTION]

Insert the I/O board in accordance with the manual of the personal computer used.

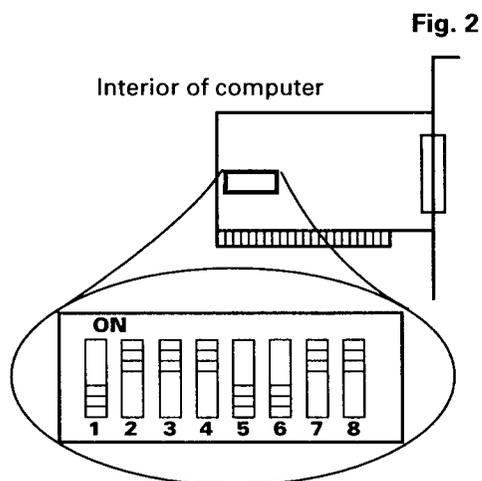


Fig. 2

[Supplement]

This I/O board is set so that I/O address 310H is used. If operation is abnormal, it is possible that address 310H is being used by another board.

Remove the other board and retry operation.

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[OPERATING PROCEDURE]

1) Main menu

Operation	Window screen
<p>1. Repair program starting</p> <p>① NEC PC98 machine</p> <div style="border: 1px solid black; padding: 5px;"> <p>Insert the floppy disk into the personal computer and turn on the power. (If the power is already on, press the RESET switch.)</p> </div> <p>② DOS/V machine (IBM PC/AT compatible machine)</p> <div style="border: 1px solid black; padding: 5px;"> <p>1 : Turn on the personal computer power and start MS-DOS from hard disk. 2 : Insert the floppy disk containing the repair program into the personal computer and set the current drive to the floppy disk drive. (Example : When floppy disk is in drive A, A : [Enter].) 3 : Start the repair program by REPAIR [Enter].</p> </div>	
<p>2. Adjustment item selection</p> <div style="border: 1px solid black; padding: 5px;"> <p>Wait until the <Main Menu> shown at the right is displayed, then select the desired adjustment item from the ten keypad.</p> </div>	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p style="text-align: center;">< Main Menu ></p> <p>[0] Focus Adjustment : Start Focus Adjustment program. [1] Brightness/temp. measurement : Start brightness/temp. measurement program. [2] AE Adjustment : Start AE Adjustment program. [3] BC Adjustment : Start BC Adjustment program. [4] AF Adjustment : Start AF Adjustment program. [5] Flash Adjustment : Start Flash Adjustment program. [6] PR Adjustment : Start PR Adjustment program. [7] FPCB Adjustment : Start FPCB Adjustment program. [8] Focus Check : Start Focus Check program. [9] Adjustment end : Program end.</p> <p style="text-align: center;">Input number please. ==></p> </div> <div style="text-align: center; margin-top: 20px;"> <p>Adjustment processing (For more information, see the following pages.)</p> </div>

2) Focus adjustment-1

Operation	Window screen
<p>1. Adjustment preparations check</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the camera in accordance with the message and hit the RET key.</p> </div> <p>* If the ESC key is hit here, the display will return to the main menu.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< Focus Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Use constant voltage power supply (5.60V). * Open camera back and connect communication connector. * Set camera switch ON. * Set micrometer position to 14.95mm. * Set collimator scale to 0.00mm. * Hit RET key to start focus adjustment. * Press camera shutter release within 5 seconds after hitting RET key. </div>
<p>2. Check communications with camera</p> <div style="border: 1px solid black; padding: 5px;"> <p>Press the camera shutter release while this message is being displayed.</p> </div> <p>* This message is displayed for about 5 seconds.</p> <p>* If a communication error is generated, see (Note 11-1) on page 39.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< Focus Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Checking communications. * Press shutter release! </div>

Focus adjustment-2

Operation	Window screen
<p>3. Focus adjustment</p> <div style="border: 1px solid black; padding: 5px;"> <p>Since the camera is set to the bulb state, perform focus adjustment by the prescribed method. When the RET key is hit at the end of adjustment, the program jumps to step 4.</p> </div> <p>* If the ESC key is pressed here, (Note 11-3) on page 40 will be displayed after the lens collapse & communication reset window on the next page.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< Focus Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Turn micrometer and focus camera. * At end of adjustment, hit RET key.</p> </div>
<p>4. Micrometer value input</p> <div style="border: 1px solid black; padding: 5px;"> <p>Input the micrometer value from the keyboard. If the input value is NG, repeat steps 3 to 4 four times. If the input value is OK, the program will immediately jump to step 5.</p> </div> <p>* When five times are NG, see (Note 11-2) on page 39 after the lens collapse & communication reset window on the next page is displayed.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< Focus Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Micrometer value input please. ===></p> </div>

Focus adjustment-3

Operation	Window screen
<p>5. Ending focus adjustment</p> <div style="border: 1px solid black; padding: 5px;"><p>Hit the RET key in accordance with the message to return to the main menu.</p></div>	<p style="text-align: center;">(Lens collapse & communication reset window)</p> <div style="border: 1px solid black; padding: 2px;"><p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p></div> <div style="border: 1px solid black; padding: 2px;"><p style="text-align: center;"><< Focus Adjustment >></p></div> <div style="border: 1px solid black; padding: 2px;"><p style="text-align: center;">* Lens collapse & communication reset!</p></div> <div style="border: 1px solid black; padding: 2px;"><p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p></div> <div style="border: 1px solid black; padding: 2px;"><p style="text-align: center;"><< Focus Adjustment >></p></div> <div style="border: 1px solid black; padding: 2px;"><p>* Adjustment ended.</p><p>* Set camera switch OFF.</p><p>* Hit RET key to return to menu.</p></div>

3) Brightness/temp. measurement adjustment-1

Operation	Window screen
<p>1. Adjustment preparations check</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the camera in accordance with the message and hit the RET key.</p> </div> <p>* If the ESC key is hit here, the display will return to the main menu.</p>	<div style="border: 1px solid black; padding: 2px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><< Brightness/temp. measurement >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Use constant voltage power supply (5.60V). * Open camera back and connect communication connector. * Set camera switch ON. * Hit RET key to start brightness/temp. measurement. * Press camera shutter release within 5 seconds after hitting RET key. </div>
<p>2. Check communications with camera</p> <div style="border: 1px solid black; padding: 5px;"> <p>Press the camera shutter release while this message is being displayed.</p> </div> <p>* This message is displayed for about 5 seconds.</p> <p>* If a communication error is generated, see (Note 11-1) on page 39.</p>	<div style="border: 1px solid black; padding: 2px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><< Brightness/temp. measurement >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Checking communications. * Press shutter release! </div>

Brightness/temp. measurement adjustment-2

Operation	Window screen
<p>3. Room temperature entry</p> <div style="border: 1px solid black; padding: 5px;"> <p>Enter the room temperature in accordance with the message and hit the RET key.</p> </div> <p>* If an error (including a communication error) is generated, see (Note 11-2) on page 39.</p> <p>* If the ESC key is hit here, (Note 11-3) on page 40 will be displayed after the lens collapse & communication reset window on page 9.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< Brightness/temp. measurement >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Enter room temperature [degree C]. ==>></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< Brightness/temp. measurement >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">[Measuring!]</p> </div>

Brightness/temp. measurement adjustment-3

Operation	Window screen
<p>4. LV8 metering</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the LV value of the brightness box in accordance with the message and hit the RET key.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< Brightness/temp. measurement >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< LV setting ></p> <p>*Set brightness box to (LV8). *Check brightness box, then hit RET key.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< Brightness/temp. measurement >></p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>[Measuring!]</p> </div>

Brightness/temp. measurement adjustment-4

Operation	Window screen
<p>5. LV15 setting</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the LV value of the brightness box in accordance with the message and hit the RET key.</p> </div>	<div style="border: 1px solid black; padding: 2px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><< Brightness/temp. measurement >></p> </div> <div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">< LV setting ></p> <p>*Set brightness box to (LV15). *Check brightness box, then hit RET key.</p> </div> <div style="border: 1px solid black; padding: 2px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><< Brightness/temp. measurement >></p> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p>[Measuring!]</p> </div>
<p>6. Low brightness setting</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the LV value of the brightness box in accordance with the message and hit the RET key.</p> </div>	<div style="border: 1px solid black; padding: 2px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><< Brightness/temp. measurement >></p> </div> <div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">< LV setting ></p> <p>*Set brightness box to (less than LV8). *Check brightness box, then hit RET key.</p> </div>

Brightness/temp. measurement adjustment-5

Operation	Window screen
<p>7. Brightness/temp. measurement adjustment end</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>When the RET key is hit in accordance with the message, the display returns to the main menu.</p> </div>	<p style="text-align: center;">(Lens collapse & communication reset window)</p> <div style="border: 1px solid black; padding: 2px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;"><< Brightness/temp. measurement >></p> </div>
	<div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">* Lens collapse & communication reset!</p> </div>
	<div style="border: 1px solid black; padding: 2px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;"><< Brightness/temp. measurement >></p> </div>
	<div style="border: 1px solid black; padding: 10px;"> <p>* Adjustment ended.</p> <p>* Set camera switch OFF.</p> <p>* Hit RET key to return to menu.</p> </div>

4) AE adjustment-1

Operation	Window screen
<p>1. Adjustment preparations check</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the camera in accordance with the message and hit the RET key.</p> </div> <p>IMPORTANT AE adjustment must be performed after focus adjustment.</p> <p>* If the ESC key is hit here, the display will return to the main menu.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< AE Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Use constant voltage power supply (5.60V). * Open camera back and connect communication connector. * Set camera switch ON. * Set AE tester to (ISO 100). * Mount AE photocell to camera. * Hit RET key to start AE adjustment. * Press camera shutter release within 5 seconds after hitting RET key. </div>
<p>2. Check communications with camera</p> <div style="border: 1px solid black; padding: 5px;"> <p>Press the camera shutter release while this message is being displayed.</p> </div> <p>* This message is displayed for about 5 seconds.</p> <p>* If a communication error is generated, see (Note 11-1) on page 39.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< AE Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Checking communications. * Press shutter release! </div>

AE adjustment-2

Operation	Window screen
<p>3. LV8 setting</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the LV value of the brightness box in accordance with the message and hit the RET key.</p> </div> <p>* If an error (including a communication error) is generated, see (Note 11-2) on page 39.</p> <p>* If the ESC key is hit here, (Note 11-3) on page 40 will be displayed after the lens collapse & communication reset window on page 14.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AE Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< LV setting ></p> <p>*Set brightness box to (LV8). *Check brightness box, then hit RET key.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AE Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Hit RET key to release the shutter. * When ready, hit RET key.</p> </div>
<p>4. EV value input</p> <div style="border: 1px solid black; padding: 5px;"> <p>Input the AE tester value in accordance with the message and hit the RET key. (Repeat this 3 times.)</p> </div> <p>* If the camera is left standing at a high temperature for a long time, it may be adversely affected.</p> <p>* When only the RET key is entered, the shutter is released again.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AE Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* EV tester value input please. ===></p> </div>

AE adjustment-3

Operation	Window screen
<p>5. LV12 setting</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the LV value of the brightness box in accordance with the message and hit the RET key.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< AE Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< LV setting ></p> <p>*Set brightness box to (LV12). *Check brightness box, then hit RET key.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< AE Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Hit RET key to release the shutter. * When ready, hit RET key.</p> </div>
<p>6. EV value input</p> <div style="border: 1px solid black; padding: 5px;"> <p>Input the AE tester value in accordance with the message and hit the RET key. (Repeat this 9 times.)</p> </div> <p>* If the camera is left standing at a high temperature for a long time, it may be adversely affected.</p> <p>* When only the RET key is entered, the shutter is released again.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< AE Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* EV tester value input please. ===></p> </div>

AE adjustment-4

Operation	Window screen
<p>7. LV14 setting</p> <div style="border: 1px solid black; padding: 5px;"> <p>Prepare synchro time measurement in accordance with the message and hit the RET key.</p> </div> <p>IMPORTANT When the flash time cannot be obtained with the AE tester, adjustment may also be performed with the shutter tester without regard to LV.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AE Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< LV setting ></p> <ul style="list-style-type: none"> * Set brightness box to (LV14). * Install hot shoe adapter to camera. * Set so that time from shutter open to synchro signal can be measured. * Check brightness box, then hit RET key. </div> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AE Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Hit RET key to release the shutter. * When ready, hit RET key. </div>
<p>8. Synchro timing entry</p> <div style="border: 1px solid black; padding: 5px;"> <p>Input the AE tester value in accordance with the message and hit the RET key. (Repeat this 3 times.)</p> </div> <ul style="list-style-type: none"> * If the camera is left standing at a high temperature for a long time, it may be adversely affected. * When only the RET key is entered, the shutter is released again. 	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AE Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Enter synchro timing [ms]. ===> </div>

AE adjustment-5

Operation	Window screen
<p>9. AE adjustment end</p> <div style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p>When the RET key is hit in accordance with the message, the display returns to the main menu.</p> </div>	<p style="text-align: center;">(Lens collapse & communication reset window)</p> <div style="border: 1px solid black; padding: 2px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><< AE Adjustment >></p> </div>
	<div style="border: 1px solid black; padding: 10px;"> <p>* Lens collapse & communication reset!</p> </div>
	<div style="border: 1px solid black; padding: 2px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><< AE Adjustment >></p> </div>
	<div style="border: 1px solid black; padding: 10px;"> <p>* Adjustment ended.</p> <p>* Set camera switch OFF.</p> <p>* Hit RET key to return to menu.</p> </div>

5) BC adjustment-1

Operation	Window screen
<p>1. Adjustment preparations check</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the camera in accordance with the message and hit the RET key.</p> </div> <p>* If the ESC key is hit here, the display will return to the main menu.</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< BC Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Use constant voltage power supply (5.60V). * Open camera back and connect communication connector. * Set camera switch ON. * Hit RET key to start BC adjustment. * Press camera shutter release within 5 seconds after hitting RET key. </div>
<p>2. Check communication with camera</p> <div style="border: 1px solid black; padding: 5px;"> <p>Press the camera shutter release while this message is being displayed.</p> </div> <p>* This message is displayed for about 5 seconds.</p> <p>* If a communication error is generated, see (Note 11-1) on page 39.</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< BC Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Checking communications. * Press shutter release! </div>
<p>3. Measurement at 2.40V</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the constant voltage power supply voltage in accordance with the message and hit the RET key.</p> </div> <p>* If an error (including a communication error) is generated, see (Note 11-2) on page 39.</p> <p>* If the ESC key is pressed here, (Note 11-3) on page 40 will be displayed after the lens collapse & communication reset window on page 17.</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< BC Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Voltage setting ></p> <ul style="list-style-type: none"> * Set constant voltage power supply to (2.40V). * Check constant voltage power supply, then hit RET key. </div>

BC adjustment-2

Operation	Window screen
<p>4. Measurement at 4.20V</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the constant voltage power supply voltage in accordance with the message and hit the RET key.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><< BC Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Voltage setting ></p> <ul style="list-style-type: none"> * Set constant voltage power supply to (4.20V). * Check constant voltage power supply, then hit RET key. </div>
<p>5. Measurement at 4.50V</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the constant voltage power supply voltage in accordance with the message and hit the RET key.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><< BC Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Voltage setting ></p> <ul style="list-style-type: none"> * Set constant voltage power supply to (4.50V). * Check constant voltage power supply, then hit RET key. </div>

BC adjustment-3

Operation	Window screen
<p>6. Measurement at 5.60V.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the constant voltage power supply voltage in accordance with the message and hit the RET key.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><< BC Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Voltage setting ></p> <p>* Set constant voltage power supply to (5.60V). * Check constant voltage power supply, then hit RET key.</p> </div> <p style="text-align: center;">(Lens collapse & communication reset window)</p> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><< BC Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Lens collapse & communication reset!</p> </div>
<p>7. BC adjustment end</p> <div style="border: 1px solid black; padding: 5px;"> <p>Press the RET key in accordance with the message to return to the main menu.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><< BC Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Adjustment ended. * Set camera switch OFF. * Hit RET key to return to menu.</p> </div>

6) AF adjustment-1

Operation	Window screen
<p>1. Adjustment preparations check</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the camera in accordance with the message and hit the RET key.</p> </div> <p>IMPORTANT AF adjustment must be performed after brightness / temp. measurement adjustment.</p> <p>* If the ESC key is hit here, the display will return to the main menu.</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><<AF Adjustment>></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Use constant voltage power supply (5.60V). * Open camera back and connect communication connector. * Set camera switch ON. * Make camera level. * Hit RET key to start AF adjustment. * Press camera shutter release within 5 seconds after hitting RET key. </div>
<p>2. Check communications with camera</p> <div style="border: 1px solid black; padding: 5px;"> <p>Press the camera shutter release while this message is being displayed.</p> </div> <p>* This message is displayed for about 5 seconds.</p> <p>* If a communication error is generated, see (Note 11-1) on page 39.</p>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< AF Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Checking communications. * Press shutter release! </div>

AF adjustment-2

Operation	Window screen
<p>3. 0.8m ranging</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the camera and chart distance in accordance with the message and hit the RET key.</p> </div> <p>* If an error (including a communication error) is generated, see (Note 11-2) on page 39.</p> <p>* If the ESC key is hit here, (Note 11-3) on page 40 will be displayed after the lens collapse & communication reset window on page 23.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AF Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Active gray chart setting ></p> <ul style="list-style-type: none"> * Set chart and camera distance to (0.8m). * Use (36%) chart. * Check chart, then hit RET key. </div> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AF Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Ranging count: 1/10</p> </div>

AF adjustment-3

Operation	Window screen
<p>4. 2.5m ranging</p> <div style="border: 1px solid black; padding: 5px;"><p>Check the camera and chart distance in accordance with the message and hit the RET key.</p></div>	<div style="border: 1px solid black; padding: 5px;"><p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p><p style="text-align: center;"><< AF Adjustment >></p></div> <div style="border: 1px solid black; padding: 5px;"><p style="text-align: center;">< Active gray chart setting ></p><ul style="list-style-type: none">* Set chart and camera distance to (2.5m).* Use (36%) chart.* Check chart, then hit RET key.</div> <div style="border: 1px solid black; padding: 5px;"><p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p><p style="text-align: center;"><< AF Adjustment >></p></div> <div style="border: 1px solid black; padding: 5px;"><p style="text-align: center;">Ranging count: 1/10</p></div>

AF adjustment-4

Operation	Window screen
<p>5. 3.0m ranging</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the camera and chart distance in accordance with the message and hit the RET key.</p> </div> <p>IMPORTANT For passive ranging, since the camera and chart position relationship and camera level requirements are stringent, fine adjust the position and repeat the test even when NG.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< AF Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Passive pattern chart setting ></p> <ul style="list-style-type: none"> * Set chart and camera distance to (3.0m). * Use (3m) chart. * Allign center of passive window and pattern chart line. * Check chart, then hit RET key. </div> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< AF Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Ranging count: 1/28</p> </div>

AF adjustment-5

Operation	Window screen
<p>6. 1.0m ranging</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the camera and chart distance in accordance with the message and hit the RET key.</p> </div> <p>* If an error (other than a communication error) is generated, see (Note 6-1) on page 24.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AF Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Passive pattern chart setting ></p> <ul style="list-style-type: none"> * Set chart and camera distance to (1.0m). * Use (1m) chart. * Allign center of passive window and pattern chart line. * Check chart, then hit RET key. </div> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AF Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Ranging count: 1/10</p> </div>

AF adjustment-6

Operation	Window screen
<p>7. 3.2m ranging</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the camera and chart distance in accordance with the message and hit the RET key.</p> </div> <p>* If an error (except a communication error) is generated, see (Note 6-1) on page 24.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AF Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Passive pattern chart setting ></p> <ul style="list-style-type: none"> * Set chart and camera distance to (3.2m). * Use (3m) chart. * Allign center of passive window and pattern chart line. * Check chart, then hit RET key. </div> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AF Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Ranging count: 1/10</p> </div> <p style="text-align: center;">(Lens collapse & communication reset window)</p> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AF Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Lens collapse & communication reset!</p> </div>

AF adjustment-7

Operation	Window screen
<p>8. AF adjustment end</p> <div style="border: 1px solid black; padding: 5px;"> <p>Hit the RET key in accordance with the message to return to the main menu.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AF Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Adjustment ended. * Set camera switch OFF. * Hit RET key to return to menu.</p> </div>

Notes	Window screen
<p>(Note 6-1)</p> <div style="border: 1px solid black; padding: 5px;"> <p>When an error is generated during passive ranging, the message shown at the right is displayed. When the RET key is hit, ranging is performed again.</p> </div>	<p style="text-align: center;">(Remeasurement selection window)</p> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< AF Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Remeasurement selection ></p> <p>* Measurement at this range NG. * Hit RET key to remeasurement at this range. * Hit ESC key to interrupt adjustment.</p> </div>

7) Flash adjustment-1

Operation	Window screen
<p>1. Adjustment preparations check</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the camera in accordance with the message and hit the RET key.</p> </div> <p>* If the ESC key is hit here, the display will return to the main menu.</p> <p><u>IMPORTANT</u> For the flash meter, set the shutter speed to 1/30 or 1/60.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< Flash Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Use constant voltage power supply (5.60V). * Open camera back and connect communication connector. * Set camera switch ON. * Set flash meter. * Pop-up flash. * Hit RET key to start flash adjustment. * Press camera shutter release within 5 seconds after hitting RET key. </div>
<p>2: Check communications with camera</p> <div style="border: 1px solid black; padding: 5px;"> <p>Press the camera shutter release while this message is being displayed.</p> </div> <p>* This message is displayed for about 5 seconds.</p> <p>* If a communication error is generated, see (Note 11-1) on page 39.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< Flash Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Checking communications. * Press shutter release! </div>

Flash adjustment-2

Operation	Window screen
<p>3. Flash meter correction value entry</p> <div style="border: 1px solid black; padding: 5px;"><p>Enter the flash meter correction value in accordance with the message and hit the RET key.</p></div> <p>IMPORTANT Normally enter "0" as the correction value.</p> <p>* If an error (including a communication error) is generated, see (Note 11-2) on page 39.</p> <p>* If the ESC key is hit here, (Note 11-3) on page 40 will be displayed after the lens collapse & communication reset window on page 30.</p>	<div style="border: 1px solid black; padding: 5px;"><p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p></div> <div style="border: 1px solid black; padding: 5px;"><p style="text-align: center;"><< Flash Adjustment >></p></div> <div style="border: 1px solid black; padding: 5px;"><p>* Adjustment at LV7 and less.</p><p>* Enter flash meter correction value [AV]. ===></p></div>

Flash adjustment-3

Operation	Window screen
<p>4. Flash meter correction value entry</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the flash adjustment chart in accordance with the message and hit the RET key.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< Flash Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Chart setting ></p> <p>* Set chart and camera distance to (0.7m).</p> </div>
<p>5. Flash meter value entry</p> <div style="border: 1px solid black; padding: 5px;"> <p>Enter the flash meter FNo. value in accordance with the message and hit the RET key.</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Entry Example</p> <p>FNo. display → Enter</p> <p>2.8 2 → 2.82</p> <p>1 1 5 → 11.5</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< Flash Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Flash meter setting ></p> <p>* Prepare flash meter.</p> <p>* When ready, hit RET key.</p> </div>
	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< Flash Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Enter flash meter value. ==>></p> </div>

Flash adjustment-4

Operation	Window screen
<p>6. Flash meter correction value entry</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the flash adjustment chart in accordance with the message and hit the RET key.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><< Flash Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Chart setting ></p> <p>* Set chart and camera distance to (1.0m).</p> </div>
<p>7. Flash meter value entry</p> <div style="border: 1px solid black; padding: 5px;"> <p>Enter the flash meter FNo. value in accordance with the message and hit the RET key.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><< Flash Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Flash meter setting ></p> <p>* Prepare flash meter. * When ready, hit RET key.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><< Flash Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Enter flash meter value. ==></p> </div>

Flash adjustment-5

Operation	Window screen
<p>8. Flash meter correction value entry</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Check the flash adjustment chart in accordance with the message and hit the RET key.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< Flash Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Chart setting ></p> <p>* Set chart and camera distance to (1.5m).</p> </div>
<p>9. Flash meter value entry</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Enter the flash meter FNo. value in accordance with the message and hit the RET key.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< Flash Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< Flash meter setting ></p> <p>* Prepare flash meter. * When ready, hit RET key.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< Flash Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Enter flash meter value. ===></p> </div>

Flash adjustment-6

Operation	Window screen
<p>10. Flash adjustment end</p> <div style="border: 1px solid black; padding: 5px;"> <p>Hit the RET key in accordance with the message to return to the main menu.</p> </div>	<p style="text-align: center;">(Lens collapse & communication reset window)</p> <div style="border: 1px solid black; padding: 2px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;"><< Flash Adjustment >></p> </div>
	<div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">* Lens collapse & communication reset!</p> </div>
	<div style="border: 1px solid black; padding: 2px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;"><< Flash Adjustment >></p> </div>
	<div style="border: 1px solid black; padding: 10px;"> <p>* Adjustment ended.</p> <p>* Set camera switch OFF.</p> <p>* Hit RET key to return to menu.</p> </div>

8) PR adjustment-1

Operation	Window screen
<p>1. Adjustment preparations check</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the camera in accordance with the message and hit the RET key.</p> </div> <p>* If the ESC key is hit here, the display will return to the main menu.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< PR Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Use constant voltage power supply (5.60V). * Open camera back and connect communication connector. * Set camera switch ON. * Hit RET key to start PR adjustment. * Press camera shutter release within 5 seconds after hitting RET key. </div>
<p>2. Check communications with camera</p> <div style="border: 1px solid black; padding: 5px;"> <p>Press the camera shutter release while this message is being displayed.</p> </div> <p>* This message is displayed for about 5 seconds.</p> <p>* If a communication error is generated, see (Note 11-1) on page 39.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< PR Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Checking communications. * Press shutter release! </div>
	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< PR Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Please select the model name of camera. [1] 645i [2] 645Wi [ESC] interrupt </div>

PR adjustment-2

Operation	Window screen
<p>3. Measuring start.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check if the PR sensitivity adjustment jig is installed to the camera in accordance with the message and hit the RET key.</p> </div> <p>* If an error (including a communication error) is generated, see (Note 11-2) on page 39.</p> <p>* If the ESC key is hit here, (Note 11-3) on page 40 will be displayed after the lens collapse & communication reset window.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< PR Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">< PR sensitivity adjust jig setting ></p> <p>* Set PR sensitivity adjust jig to camera. * Check PR sensitivity adjust jig, then hit RET key.</p> </div> <p style="text-align: center;">(Lens collapse & communication reset window)</p> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< PR Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Lens collapse & communication reset!</p> </div>
<p>4. PR adjustment end.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Press the RET key in accordance with the message to return to the main menu.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< PR Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Adjustment ended. * Set camera switch OFF. * Hit RET key to return to menu.</p> </div>

9) FPCB adjustment-1

Operation	Window screen
<p>1. Adjustment preparations check</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the camera in accordance with the message and hit the RET key.</p> </div> <p>* If the ESC key is hit here, the display will return to the main menu.</p> <p>IMPORTANT When the FPCB was replaced, make this adjustment first. When the FPCB was not replaced, this adjustment is unnecessary.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< FPCB Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Use constant voltage power supply (5.60V). * Open camera back and connect communication connector. * Set camera switch ON. * Hit RET key to start FPCB adjustment. * Press camera shutter release within 5 seconds after hitting RET key. </div>
<p>2. Check communications with camera</p> <div style="border: 1px solid black; padding: 5px;"> <p>Press the camera shutter release while this message is being displayed.</p> </div> <p>* This message is displayed for about 5 seconds.</p> <p>* If a communication error is generated, see (Note 11-1) on page 39.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< FPCB Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Checking communications. * Press shutter release! </div>

FPCB adjustment-2

Operation	Window screen
<p>3. Camera model name selection</p> <div style="border: 1px solid black; padding: 5px;"> <p>Input the camera model name in accordance with the display.</p> </div> <p>* If an error (including a communication error) is generated, see (Note 11-2) on page 39.</p> <p>* If the ESC key is hit here, (Note 11-3) on page 40 will be displayed after the lens collapse & communication reset window on page 35.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< FPCB Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Please select the model name of camera.</p> <p>[1] 645i</p> <p>[2] 645Wi</p> </div>
<p>4. Set data confirmation</p> <div style="border: 1px solid black; padding: 5px;"> <p>If the displayed settings are correct, hit the RET key. If the displayed settings are incorrect, hit the ESC key.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p><< FPCB Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Model name is 645Wi.</p> <p>* Is it good in the above-mentioned setting?</p> <p>YES [RET]</p> <p>NO [ESC]</p> </div>

FPCB adjustment-3

Operation	Window screen
<p>5. FPCB adjustment end</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>When the RET key is hit in accordance with the message, the display returns to the main menu.</p> </div>	<p style="text-align: center;">(Lens collapse & communication reset window)</p> <div style="border: 1px solid black; padding: 2px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><< FPCB Adjustment >></p> </div>
	<div style="border: 1px solid black; padding: 10px;"> <p>* Lens collapse & communication reset !</p> </div>
	<div style="border: 1px solid black; padding: 2px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><< FPCB Adjustment >></p> </div>
	<div style="border: 1px solid black; padding: 10px;"> <p>* Adjustment ended.</p> <p>* Set camera switch OFF.</p> <p>* Hit RET key to return to menu.</p> </div>

10) Focus check-1

Operation	Window screen
<p>1. Adjustment preparations check</p> <div style="border: 1px solid black; padding: 5px;"> <p>Check the camera in accordance with the message and hit the RET key.</p> </div> <p>* If the ESC key is hit here, the display will return to the main menu.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< Focus Check >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Use constant voltage power supply (5.60V). * Open camera back and connect communication connector. * Set camera switch ON. * Set micrometer position to 14.95mm. * Set collimator scale to 0.00mm. * Hit RET key to start focus adjustment. * Press camera shutter release within 5 seconds after hitting RET key. </div>
<p>2. Check communications with camera</p> <div style="border: 1px solid black; padding: 5px;"> <p>Press the camera shutter release while this message is being displayed.</p> </div> <p>* This message is displayed for about 5 seconds.</p> <p>* If a communication error is generated, see (Note 11-1) on page 39.</p>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< Focus Check >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Checking communications. * Press shutter release! </div>

Focus check-2

Operation	Window screen
<p>3. Focus check</p> <div style="border: 1px solid black; padding: 5px;"> <p>Since the camera is set to the bulb state, perform focus adjustment by the prescribed method. When the RET key is hit at the end of adjustment, the program jumps to step 4.</p> </div> <p>* If the ESC key is pressed here, the program will jump to step 5-3 after the lens collapse & communication reset window.</p> <p>4. Micrometer value input</p> <div style="border: 1px solid black; padding: 5px;"> <p>Input the micrometer value from the keyboard. If the input value is OK, the program will jump to step 5-1. If the input value is NG, the program will jump to step 5-2.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< Focus Check >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Turn micrometer and focus camera. * At end of adjustment, hit RET key.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< Focus Check >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Micrometer value input please. ===></p> </div> <p style="text-align: center;">(Lens collapse & communication reset window)</p> <div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< Focus Check >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Lens collapse & communication reset!</p> </div>

Focus check-3

Operation	Window screen
<p>5-1. Focus check ended by OK.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Hit the RET key in accordance with the message to return to the main menu.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><< Focus Check >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Check ended. * Set camera switch OFF. * Hit RET key to return to menu.</p> </div>
<p>5-2. Focus check ended by NG.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Hit the RET key in accordance with the message to return to the main menu.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><< Focus Check >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Focus is NG. * Set camera switch OFF. * Hit RET key to return to menu.</p> </div>
<p>5-3. Focus check ended midway.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Hit the RET key in accordance with the message to return to the main menu.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;"><< Focus Check >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>* Check interrupted. * Set camera switch OFF. * Hit RET key to return to menu.</p> </div>

11) Display other than adjustment end-1

Notes	Window screen
<p>(Note 11-1)</p> <div style="border: 1px solid black; padding: 5px;"> <p>If an error is generated during communication check, the window shown at the right is displayed. When the RET key is hit, the display returns to the main menu.</p> </div>	<p style="text-align: center;">(Communication check NG window)</p> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< xx Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Adjustment terminated by communication error. * ERR: 2 * Set camera switch OFF. * Hit RET key to return to menu. </div>
<p>(Note 11-2)</p> <div style="border: 1px solid black; padding: 5px;"> <p>If a communication error is generated after communication check, the error end window shown at the right is displayed. When the RET key is hit, the display returns to the main menu.</p> <p>If an error other than a communication error is generated, the NG end window shown at the right is displayed after lens collapse & communication reset window.</p> <p>When the RET key is hit, the display returns to the main menu.</p> </div>	<p style="text-align: center;">(Error end window)</p> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< xx Adjustment >></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Adjustment terminated by communication error. * ERR: 5 * Set camera switch OFF. * Hit RET key to return to menu. </div> <p style="text-align: center;">(NG end window)</p> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p> <p style="text-align: center;"><< xx Adjustment>></p> </div> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> * Adjustment terminated because correct data not obtained. * ERR: xxx * Set camera switch OFF. * Hit RET key to return to menu. </div>

Display other than adjustment end-2

Notes	Window screen
<p>(Note 11-3)</p> <div style="border: 1px solid black; padding: 5px;"><p>When the RET key is hit in accordance with the message, the display returns to the main menu.</p></div>	<p>(ESC end window)</p> <div style="border: 1px solid black; padding: 5px;"><p>GA645i/Wi Professional Repair Program [Ver 1.0xE] for xxxxx Copyright (C) 1997 by Fuji Photo Film Co., Ltd.</p><p style="text-align: center;"><< xx Adjustment >></p></div> <div style="border: 1px solid black; padding: 5px;"><ul style="list-style-type: none">* Adjustment interrupted.* Set camera switch OFF.* Hit RET key to return to menu.</div>

12) Error code table-1

Common error codes

Error code	Error contents	Error cause	Repair
001	Communication check NG (pulse width abnormal)	(1) Communication connector contact faulty. (2) Control flexible PCB assembly faulty.	(1) Reconnect communication connector. (2) Replace control flexible PCB assembly.
002	Communication check NG (pulse not sent)	(1) Communication connector contact faulty. (2) Lens barrel is not extended. (3) Camera back key not raised. (4) Counter not blank. (5) Control flexible PCB assembly faulty.	(1) Reconnect communication connector. (2) Turn on the camera power again. (3) Raise camera back key. (4) Reset to blank by opening and closing camera back. (5) Replace control flexible PCB assembly.
003	Communication check NG (mode already entered)	(1) Mode already entered.	(1) Turn the camera power off and on and then check.
004	Transmission NG (pulse width abnormal)	(1) Communication connector contact faulty. (2) Control flexible PCB assembly faulty.	(1) Reconnect communication connector. (2) Replace control flexible PCB assembly.
005	Transmission NG (pulse does not arrive)	(1) Communication connector contact faulty. (2) Control flexible PCB assembly faulty.	(1) Reconnect communication connector. (2) Replace control flexible PCB assembly.
006	Transmission NG (3 pulses arrived)	(1) Communication connector contact faulty. (2) Control flexible PCB assembly faulty.	(1) Reconnect communication connector. (2) Replace control flexible PCB assembly.
007	Reception NG (pulse width abnormal)	(1) Communication connector contact faulty. (2) Control flexible PCB assembly faulty.	(1) Reconnect communication connector. (2) Replace control flexible PCB assembly.
008	Reception NG (pulse does not arrive)	(1) Communication connector contact faulty. (2) Control flexible PCB assembly faulty.	(1) Reconnect communication connector. (2) Replace control flexible PCB assembly.
009	Reception NG (3 pulses arrived)	(1) Communication connector contact faulty. (2) Control flexible PCB assembly faulty.	(1) Reconnect communication connector. (2) Replace control flexible PCB assembly.
010	Write NG	(1) Control flexible PCB assembly faulty.	(1) Replace control flexible PCB assembly.

Error code table-2

Common error codes

Error code	Error contents	Error cause	Repair
011	Adjustment program NG	(1) Camera and adjustment program do not match.	(1) Replace the adjustment program with the adjustment program for the GA645i/Wi Professional.
012	EEPROM-NG	(1) Control flexible PCB assembly faulty.	(1) Replace control flexible PCB assembly.
999	Adjustment program NG	(1) Adjustment program bug.	(1) Contact Product Planning & Development Dept. Optical Product Div. Fuji Photo Film Co., LTD.

Focus adjustment error codes

Error code	Error contents	Error cause	Repair
101	Not OK even after 5 retries.	(1) Constant voltage power supply voltage setting incorrect. (2) Dummy battery connection faulty. (3) Lead wire soldering faulty. (4) Flexible PCB contact faulty. (5) Control flexible PCB assembly faulty. (6) SB switch assembly faulty.	(1) Readjust at correct voltage. (2) Check setting of dummy battery. (3) Check lead wires. (4) Check flexible PCB contact. (5) Replace control flexible PCB assembly. (6) Check assembly.
102	Data exceeds standard.	(1) Camera mounting faulty. (2) Lens dirty. (3) Shutter bulb faulty. (4) Encoder assembly faulty.	(1) Check mounting. (2) Clean. (3) Replace shutter. (4) Check and clean.

Brightness/temp. measurement adjustment error codes

Error code	Error contents	Error cause	Repair
201 202	CEPT_T exceeds standard ADJ_AET exceeds standard	(1) Adjustment temperature exceeds standards. (2) Brightness measurement flexible PCB or control flexible PCB soldering faulty. (3) Brightness measurement or control flexible PCB assembly faulty.	(1) Readjust 30 minutes after resetting room temperature. (2) Check soldering. (3) Replace brightness measurement or control flexible PCB assembly.

Error code table-3

AE adjustment error codes

Error code	Error contents	Error cause	Repair
301 302 303 304	TNO adjustment faulty AED adjustment faulty Aperture adjustment faulty TFM adjustment faulty	(1) Relay flexible PCB contact faulty. (2) Lead wire soldering faulty. (3) Shutter or control flexible PCB assembly faulty.	(1) Check assembly. (2) Check lead wires. (3) Replace shutter or control flexible PCB assembly.
304	TFM adjustment faulty	For other than (1) to (3) above (4) Hot shoe lead wire assembly faulty. (5) Adapter installation faulty.	(4) Check assembly. (5) Check installation.

BC adjustment error codes

Error code	Error contents	Error cause	Repair
401	BC adjustment faulty	(1) Constant voltage power supply voltage setting faulty. (2) Dummy battery contact faulty. (3) Lead wire soldering faulty. (4) Flexible PCB contact faulty. (5) Control flexible PCB assembly faulty.	(1) Readjust at correct voltage value. (2) Check setting of dummy battery. (3) Check lead wires. (4) Check flexible PCB contact. (5) Replace control flexible PCB assembly.

AF adjustment error codes

Error code	Error contents	Error cause	Repair
501 502 503 504 505	ACV_ERR, PSV_ERR Ranging flag error Passive area error Parameters exceed standard Ranging value of two points is the same, or opposite.	(1) AF light receiver assembly faulty. (2) Chart distance faulty. (3) Harmful light (sunlight, fluorescent light, etc.) shining on chart. Or entering light receiver assembly. (4) Lead wire soldering faulty. Flexible PCB contact faulty. (5) AF or control flexible PCB assembly faulty.	(1) Clean (2) Set correctly. (3) Check amount of normal light and passive chart contrast. (4) Check assembly. (5) Replace AF or control flexible PCB assembly.

Error code table-4

Flash adjustment error codes

Error code	Error contents	Error cause	Repair
601	Flash adjustment exceeds standard	(1) Chart distance faulty. (2) Lead wire soldering faulty. (3) SST switch assembly faulty. (4) Flash meter setting faulty. (5) Flash PCB or control flexible PCB assembly faulty.	(1) Set correctly. (2) Check lead wires. (3) Check assembly. (4) Check setting. (5) Replace flash PCB or control flexible PCB assembly.

PR adjustment error codes

Error code	Error contents	Error cause	Repair
701	PR adjustment exceeds standard	(1) PR holder assembly faulty. (2) Control flexible PCB assembly faulty. (3) PR sensitivity adjust jig reflection ratio faulty. (4) PR sensitivity adjust jig setting faulty.	(1) Replace PR holder assembly. (2) Replace control flexible PCB assembly. (3) Use reflection ratio 18%. (4) Set correctly on the camera.

MEMO

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