

TECHNICAL INFORMATION

SUBJECT : Standard values for adjustment of focusing performance

MODEL : ① **GW/GSW690 Series Cameras** [Ref No. 1]
 ② **GS645 Series Cameras** [Ref No. 1]
 ③ **G/GX617 Camera** [Ref No. 1]

September 3, 1997

DESCRIPTION :

1. When GA645 was placed in the market for the first time, the focus adjust stand (JF010) was newly made as a GA645 repair tool, and this tool has also been used for GW/GSW690, GS645 Series and G/GX617 cameras which use large size films. The Table of Standard Values for Adjustment of Focusing Performance has been made for your use.
2. Further, it has been found that the standard values for adjustment of focusing performance (the conventional standard values used when checking focusing performance by moving the collimator objective lens) shown in the individual Service Manuals and Technical Information (No. PR-11-6, June 21, 1995) have errors. It is requested that corrections be made in the individual Service Manuals and Technical Information.

Applicable Models:

- ① GW/GSW690 Series Cameras
- ② GS645 Series Cameras
- ③ G/GX617 Camera

Instruction for Service Station

① For current part:

- ☐ Do not use ☐ Use until depleted ☐ Other
- ↳ ☐ Replace current part only if current part is broken.
☐ Replace current part with new part on all repairs.

② Service Manual

- ☒ Need correction ☐ No correction is required.
- ↳ ☒ Make correction to Service Manual.
☐ FUJI FILM will print and send the appropriate page(s) to the Service Stations for replacements.

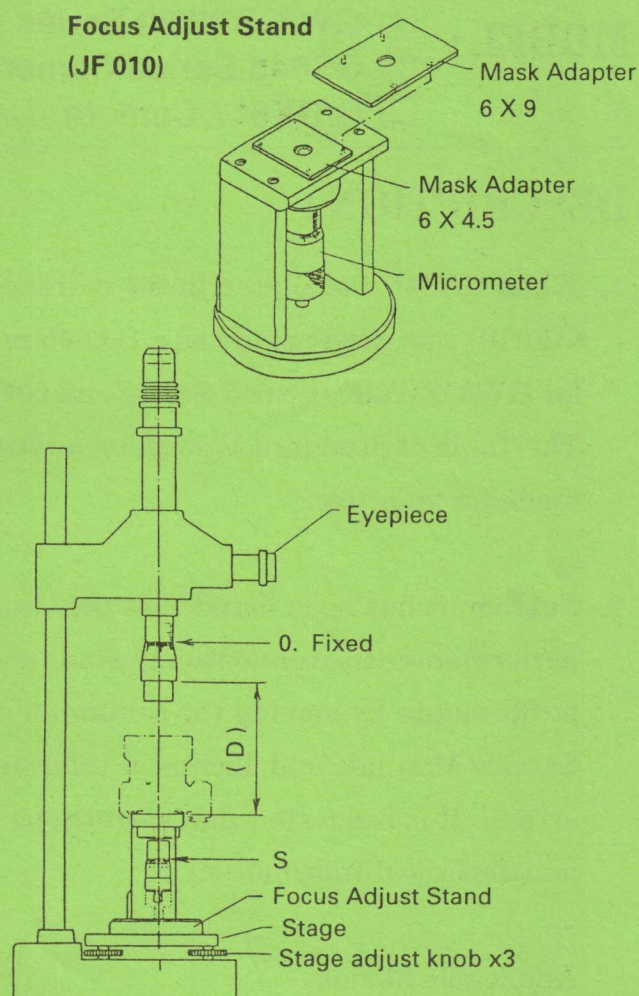
③ Measuring instruments / Special Tools

- ☐ Modify () ☐ No modification is required.

Table of Standard Values for Adjustment of Focusing Performance of Fuji Professional Cameras With Focus Adjust Stand (JF 010) Used

Models (f)	Micrometer adjust value (f)	
GW 690 Series (90mm)	15.15 ± 0.05	
GSW 690 Series (65mm)	15.15 ± 0.05	
GS 645J (70mm)	15.05 ± 0.1	
GS 645S (60mm)	15.00 ± 0.05	
GS 645W (45mm)	14.96 ± 0.05	
G 617 (105mm)	15.00 ± 0.02	
GX 617	(90mm)	14.95 ± 0.05
	(105mm)	14.95 ± 0.05
	(180mm)	14.95 ± 0.05
	(300mm)	14.95 ± 0.05

★Coincided with the film rail plane when the micrometer is set to 15.00mm



Note 1: Match the collimator objective lens scale accurately with the zero (infinity) position, correctly adjust diopter of the eyepiece, and adjust the collimator stage so that the stage is in right angle against the optical axis before starting to adjust focusing performance.

(How to adjust the collimator stage: Place a flat mirror on the stage, and turn three stage adjust knobs properly so that the chart image is in the center of the diopter frame.)

Note 2: For the collimator objective lens, use one the focus of which is as longer as possible.

More practically, use one the f-value of which is two times or more as great as that of the camera lens.

Note 3: As for value (D), it should be as such that the collimator objective lens tip does not come into contact with the camera lens.

Note 4: When measuring G617 or GX617, mount a mask adapter (6x9) on the focus adjust stand (JF 010), and then, set the camera. Then, visually match the focus adjust stand center with the camera center (optical axis).

Note 5: When measuring GX617, use a reference body or other body the flangeback of which (62mm) has been adjusted correctly.

Table of Standard Values for Adjustment of Focusing Performance of Fuji Professional Cameras With Flat Mirror Used (Up-dated on September 1, 1997)

Collimator (f) Models (f)		Collimeter adjust value (M)			(D)
		24LT-2D(193.5)	32LT-2D(300)	T-500-0M(500)	
GW 690 Series	(90mm)	$+0.69 \pm 0.23$	$+1.66 \pm 0.56$	$+4.59 \pm 1.54$	200
GSW 690 Series	(65mm)	$+1.32 \pm 0.44$	$+3.17 \pm 1.06$	$+8.75 \pm 2.94$	200
GS 645J	(70mm)	$+0.38 \pm 0.76$	$+0.92 \pm 1.83$	$+2.54 \pm 5.06$	200
GS 645S	(60mm)	0 ± 0.52	0 ± 1.25	0 ± 3.45	200
GS 645W	(45mm)	-0.74 ± 0.92	-1.78 ± 2.22	-4.90 ± 6.12	200
G 617	(105mm)	★ 0 ± 0.10	0 ± 0.41	0 ± 1.14	200
GX 617	(90mm)	-0.23 ± 0.23	-0.56 ± 0.56	-1.54 ± 1.54	200
	(105mm)	★ -0.17 ± 0.17	-0.41 ± 0.40	-1.13 ± 1.13	200
	(180mm)	—	★ -0.14 ± 0.14	-0.39 ± 0.39	350
	(300mm)	—	—	★ -0.14 ± 0.14	350

★Those values accompanied with star marks are not so precise that they should be used for reference only.

Note 1: Correctly adjust diopter of the eyepiece and adjust the collimator stage so that the stage is in right angle against the optical axis before starting the adjustment work

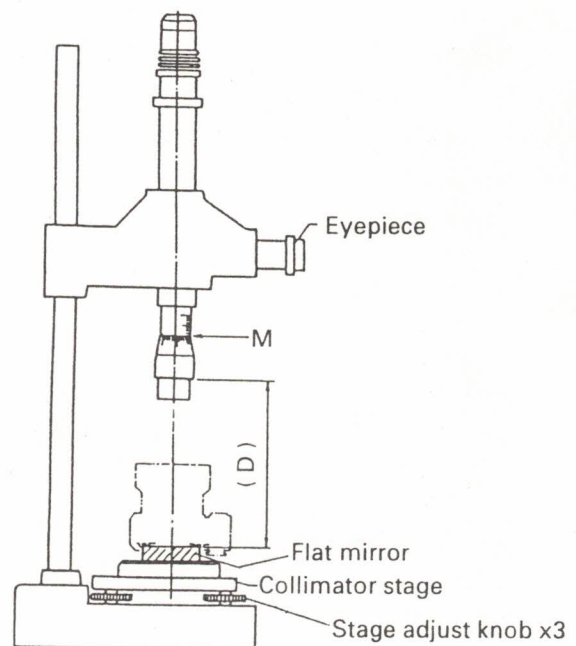
Note 2: When selecting a collimator for model of the camera to be adjusted, the following ratio will be the best:

[Collimator f = Camera f x2 or x3]

When this ratio is larger, an accuracy over will result, and it will become difficult to decide focus.

Note 3: Match (D) with that of the above table approximately.

Note 4: As mentioned above, when measuring GX617, use a reference body or other body the flangeback of which (62mm) has been adjusted correctly.



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26-30, Nishiazabu 2-Chome, Minato-ku, Tokyo 106, Japan

TECHNICAL INFORMATION

SUBJECT: Forwarded is "Repair Program" which can be used commonly for GA645 and GA645WIDE.

MODEL: **GA645 / GA645 WIDE**

November 15, 1996

DESCRIPTION:

The operating method and tools used are almost same as those for the conventional GA645.

As for GA645, those with Body Serial No. 6070001 and thereafter cannot be adjusted without the forwarded Repair Program.

The Repair Program forwarded this time can be used commonly for both GA645 and GA645 WIDE regardless of body serial numbers. However, your attention is invited when replacing a control FPCB assembly (3-70) with a new one. When you replaced a control FPCB assembly with a new one, be sure to adjust the FPCB first before making any other adjustments.

1. Former type CPU or new type CPU must be identified and the identified type must be input.

The former or new type can be identified with the identification number marked on the camera bottom.

GSFC604S: Former type CPU

GSFC605S: New type CPU

2. It must be noted that when the control FPCB assembly (3-70) of a camera with a former type CPU is replaced with that of a new type CPU, the functions are changed as indicated below.

- (1) FTL 1/30 is changed to 1/45.
- (2) Focus mode (AF/MF) can be printed.
- (3) Self-timer lamp no longer lights immediately after releasing the shutter.
- (4) Cameras of 15 exposures (120 film) and 30 exposures (220 film) are changed respectively to those of 16 exposures and 32 exposures.

When functions are changed, inform and explain the changed functions to the camera owner.

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When functions are changed, inform and explain the changed functions to the camera owner.

TECHNICAL INFORMATION

SUBJECT : Changed top cover shape

MODEL : GA645/W [Ref No. 2]

February 16, 1998

DESCRIPTION :

The AF button and exposure compensation button (+/-) on the top cover (1-2) are now provided with ribs so that these buttons will not be pressed in erroneously.
This modification has already been executed.

(Reason)

To prevent erroneously pressed in AF button and exposure compensation button (+/-).

Parts change

Current			New			Can be supplied or not
Ref. No.	Part Name	Part No.	Ref No.	Part Name	Part No.	
GA645						
1- 1	Top cover assembly	303A 7824310	1- 1	Top cover assembly	303A 8520900	○
GA645 W						
1- 1	Top cover assembly	303A 8520950	1- 1	Top cover assembly	303A 8521150	○

Effected on those manufactured during June, 1996. (Body Serial #606XXXX and thereafter.)

The new part has been supplied since July, 1996.

Instruction for Service Station

◎ For current part:

☐ Do not use

☒ Use until depleted

☐ Other

→ ☐ Replace current part only if current part is broken.
☐ Replace current part with new part on all repairs.

◎ Service Manual

☐ Need correction

☒ No correction is required.

→ ☐ Make correction to Service Manual.
☐ FUJI FILM will print and send the appropriate page(s) to the Service Stations for replacements.

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TECHNICAL INFORMATION

SUBJECT : Assemblies used commonly with GA645 wide

MODEL : **GA645** [Ref No. 3]

February 26, 1998

DESCRIPTION :

- (1) Mode switch assembly (3-1) : [With lock for dial off mode only] is changed to
[With lock for all modes except for ISO].
- (2) Gear train assembly (4-55) : Countermeasure has been taken to minimize the operation sound.

* As the above improvements are made, the control FPCB (CPU) is also used commonly.

Parts change

Current			New			Can be supplied or not
Ref. No.	Part Name	Part No.	Ref. No.	Part Name	Part No.	
3- 1	Mode switch assembly	46A 7824810	3- 1	Mode switch assembly	46A 7824811	○
4-55	Gear train assembly	46A 7827310	4-55	Gear train assembly	46A 8521900	○

Executed on those manufactured during July, 1996. (Body Serial #6070001 and thereafter.)
New part has been supplied since August, 1996.

Instruction for Service Station

○ For current part:

- ☐ Do not use
 ☒ Use until depleted
 ☐ Other
- ↳ ☐ Replace current part only if current part is broken.
☐ Replace current part with new part on all repairs.

○ Service Manual

- ☐ Need correction
 ☒ No correction is required.
- ↳ ☐ Make correction to Service Manual.
☐ FUJI FILM will print and send the appropriate page(s) to the Service Stations for replacements.

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TECHNICAL INFORMATION

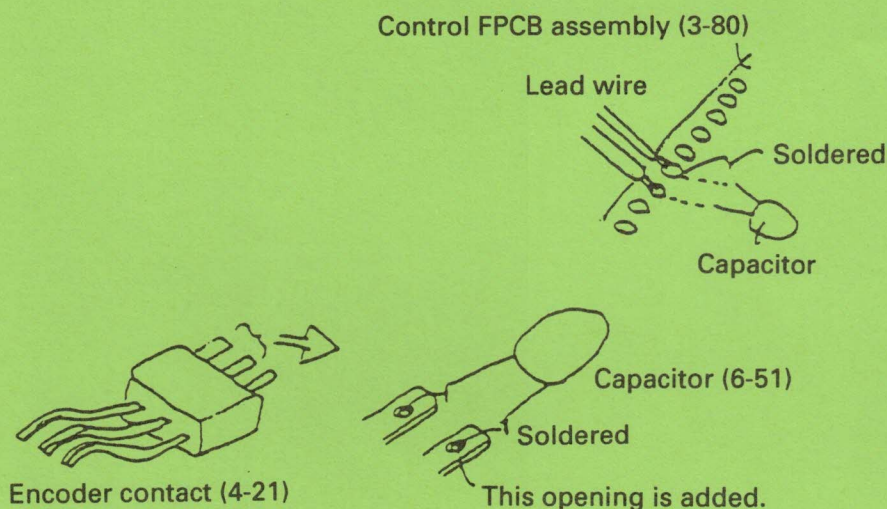
SUBJECT : Changed encoder contact shape

MODEL : GA645 Professional

December 20, 1995

DESCRIPTION :

The capacitor attached to the control FPCB assembly (3-80) is soldered together with the lead wire. This is not ideal and the capacitor is now soldered to the encoder contact (4-21). To do so, the shape of the contact is changed.



This change is to improve reliability of the soldering.

Parts change

Current			New			Inter-change-ability
Ref. No.	Part Name	Part No.	Ref. No.	Part Name	Part No.	
4 -21	Encoder contact	109B 7826860	4 -21	Encoder contact	109B 7826861	○
	Changed location		6 -51	Capacitor	116K 999680	○

Effect on those manufactured during December, 1995 (Body Serial number 5120001) and thereafter.

New parts can be supplied since December, 1995.

TECHNICAL INFORMATION

SUBJECT : Changed TV value at flash firing under P mode

MODEL : GA645 Professional

December 20, 1995

DESCRIPTION :

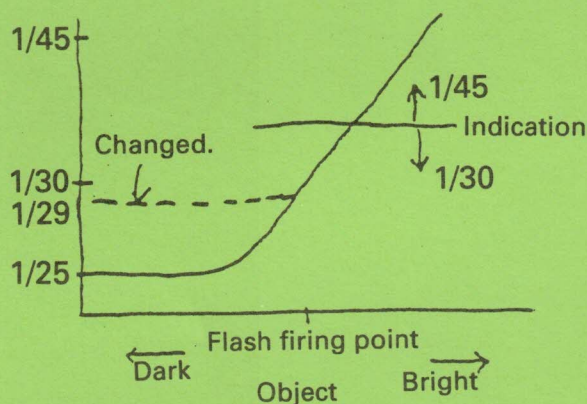
It has been reported that a hand shake (camera shake) occurs at flash firing under P mode when objects are dark.

TV value is increased from 1/25 to 1/29.

Software is not changed.

Indication on the LCD is not changed.

No change in the Owners Manual.



This change was to reduce hand shake.

Effected on those manufactured during November 21, 1995 (Body Serial No. 5111050) and thereafter.

TECHNICAL INFORMATION

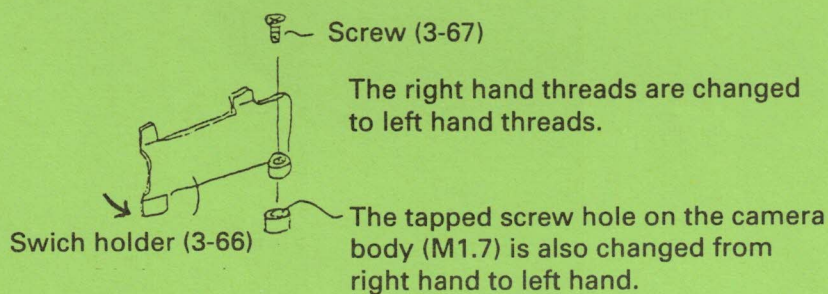
SUBJECT : Changed screw

MODEL : GA645 Professional

November 17, 1995

DESCRIPTION :

The screw (3-67) is changed from the right hand to left hand.



The switch holder (3-66) must be moved toward arrow.

This change is to ease the switch holder (3-66) installation.

Parts change

Current			New			Inter-change-ability
Ref. No.	Part Name	Part No.	Ref. No.	Part Name	Part No.	
3- 67	Screw	110M170452M	3- 67	Screw	53B 7822660	×

Effected on those manufactured on May 25, 1995 (Body Serial No. #506xxxx) and thereafter.

TECHNICAL INFORMATION

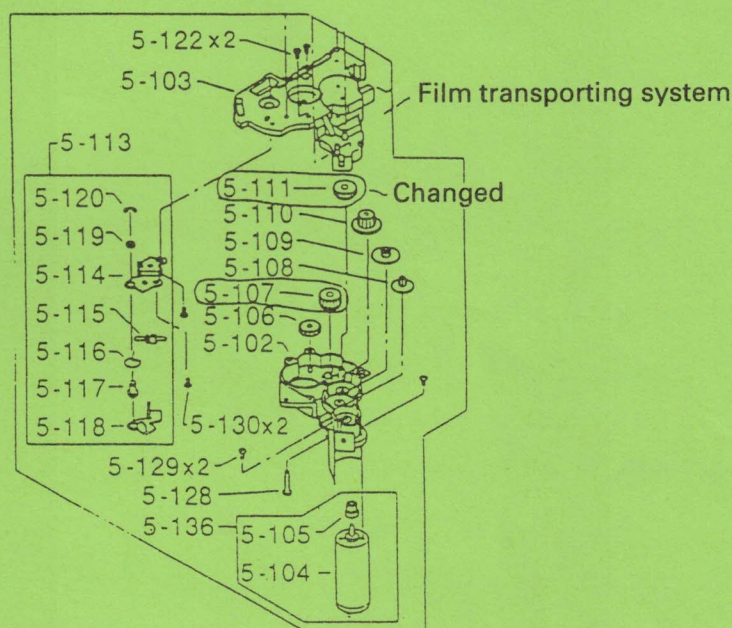
SUBJECT: Changed gear ratio

MODEL: GA645 Professional

November 17, 1995

DESCRIPTION:

Torque is increased by changing gear ratio.



Note:

Replace the gear G5 (5-107) and gear G4 (5-111) as a set.

Number of gear teeth has been changed.

This change is to increase film taking up torque.

Parts change

Current			New			Inter-change-ability
Ref. No.	Part Name	Part No.	Ref. No.	Part Name	Part No.	
5 -107	Gear G5	34B 6910111	5 -107	Gear G5	34B 7824260	×
5 -111	Gear G4	34B 6491400	5 -111	Gear G4	34B 7824250	×

↓
Replace these as a set.

Effected on those manufactured on September 18, 1995 (Body Serial No. #510xxxx) and thereafter.

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TECHNICAL INFORMATION

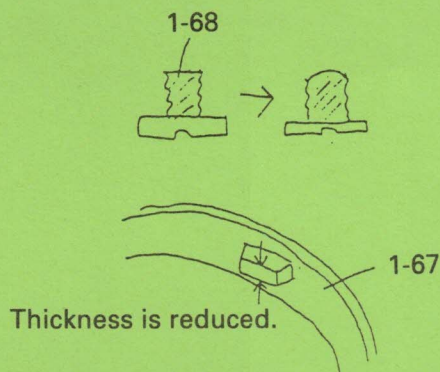
SUBJECT : Changed battery compartment cover

MODEL : GA645 Professional

November 17, 1995

DESCRIPTION :

1. The set screw head is made to a spherical shape.
2. Thickness of the cover hook is reduced (to increase fitting play).



The battery compartment cover will be detached more easily.

Parts change

Current			New			Inter-change-ability
Ref. No.	Part Name	Part No.	Ref No.	Part Name	Part No.	
1 -67	Battery compartment cover	11B 7822320	1 -67	Battery compartment cover	11B 7822321	○
1 -68	Set screw	53B 7822340	1 -68	Set screw	53B 7822342	

Effected on those manufactured on the end of August, 1995 (Body Serial No. #509xxxx) and thereafter.

TECHNICAL INFORMATION

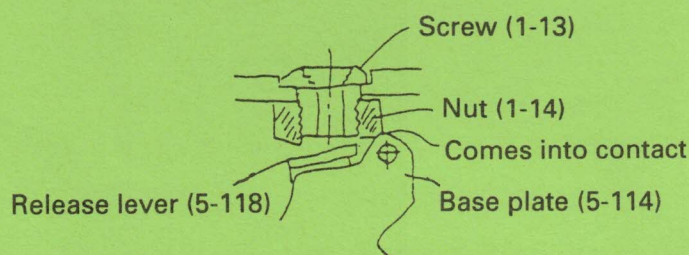
SUBJECT : Improved shutter releasing with a cable release.

MODEL : GA645 Professional

November 17, 1995

DESCRIPTION :

The nut for the shutter release set screw comes into contact with the base plate. This causes the release lever not to operate lightly and the switch dose not return from its ON position.



This change provides a space in between the nut and base plate.

Parts change

Current			New			Inter-change-ability
Ref. No.	Part Name	Part No.	Ref No.	Part Name	Part No.	
1 - 14	Nut	54B 7824560	1 - 14	Nut	54B 7824563	○
5-114	Base plate	46B 7824040	5-114	Base plate	46B 7824041	○

Effected on those manufactured during September, 1995 (Body Serial No. #509xxxx) and thereafter.

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TECHNICAL INFORMATION

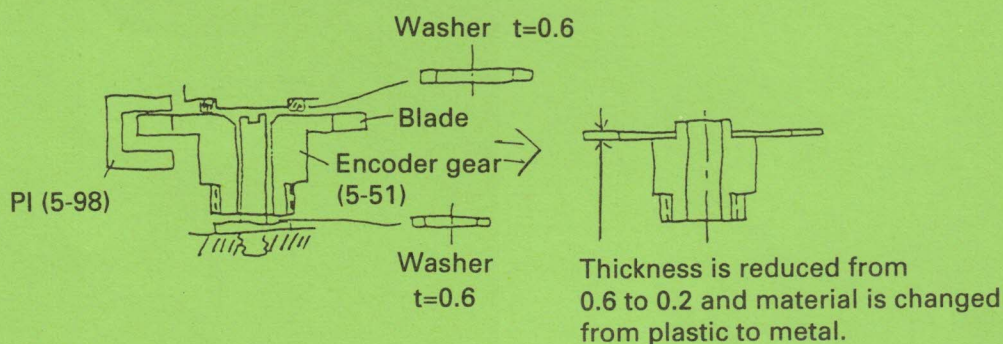
SUBJECT : Prevention of overlapped pictures.

MODEL : GA645 Professional

November 17, 1995

DESCRIPTION :

It was anticipated that the encoder gear blade might come into contact with the PI when the camera is faced downward because there was not enough space in between the blade and PI.



To provide more space in between the PI and encoder gear blade.

Parts change

Current			New			Inter-change-ability
Ref. No.	Part Name	Part No.	Ref. No.	Part Name	Part No.	
5 -51	Encoder gear	34B 7823630	5 -51	Encoder gear	34A 7822880	○

Effected on those manufactured on September 11, 1995 (Body Serial No. #509xxxxx) and thereafter.

TECHNICAL INFORMATION

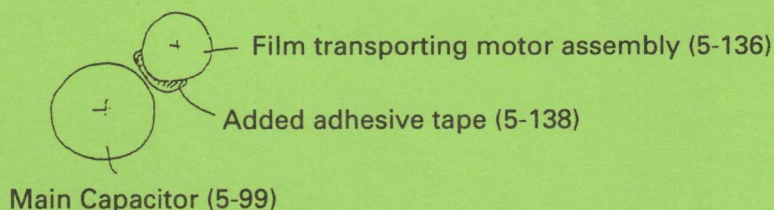
SUBJECT : Countermeasure for film transporting noise

MODEL : GA645 Professional

November 17, 1995

DESCRIPTION :

It has been reported that some cameras generate a film transporting (advancing) noise due to resonance with vibration of the film transporting motor. So the motor case is wound with a thick adhesive tape.



This change is to prevent motor vibration.

Parts change

Current			New			Inter-change-ability
Ref. No.	Part Name	Part No.	Ref No.	Part Name	Part No.	
			5-138	Adhesive tape	187B7823690	○

Effected on those manufactured on August 11, 1995 (Body Serial No. #508xxxx) and thereafter.

TECHNICAL INFORMATION


SUBJECT : Changed design of the lug

MODEL : **GA645 Professional**

November 17, 1995

DESCRIPTION :

The OD and ID are reduced so that the grounding lug is moved away from the high voltage circuit (diode) to improve safety.

Lug (3-134) 

This change is to prevent current leaking.

Parts change

Current			New			Inter-change-ability
Ref. No.	Part Name	Part No.	Ref No.	Part Name	Part No.	
3 -134	Lug	118B 7822650	3 -134	Lug	118B 7822652	○

Effected on those manufactured on August 10, 1995 (Body Serial No. #508xxxx) and thereafter.

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26-30, Nishiazabu 2-Chome, Minato-ku, Tokyo 106, Japan

TECHNICAL INFORMATION

SUBJECT : More securely locked spool knob with camera back closed.

MODEL : GA645 Professional

November 17, 1995

DESCRIPTION :

Length of the release bar is reduced 0.5mm so that it is no longer pushed by the camera back.

The release bar will no longer be used commonly with GS645S.



To secure function of the release bar.

Parts change

Current			New			Inter-change-ability
Ref. No.	Part Name	Part No.	Ref No.	Part Name	Part No.	
5-33	Release bar	82B 3281153	5-33	Release bar	82B 7823370	○
5-37	Release bar	82B 3281161	5-37	Release bar	82B 7823380	○

Effected on those manufactured on May 18, 1995 and thereafter.

TECHNICAL INFORMATION

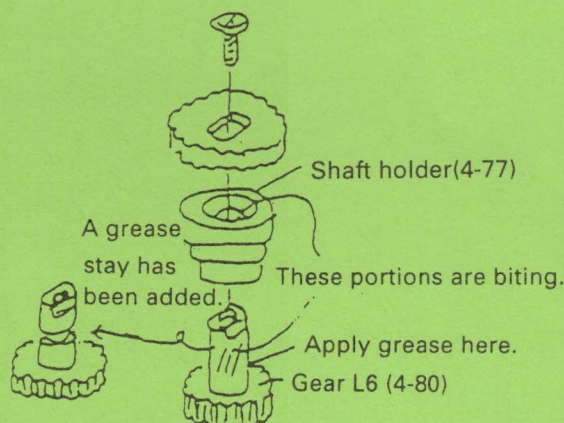
SUBJECT: Replacement of gear train assembly (4-55)

MODEL: GA645 Professional

February 3, 1996

A trouble (The lens driving gear does not turn.) has been reported (Eight cases as of the end of November, 1995 out of 1,300 – Body Serial No. 505xxxx, 506xxxx).

When the lens is operating, the gear L6 (4-80) turns. But, this gear bites with the shaft holder (4-77) causing the lens operating slowly or not to operate. This trouble occurs due to an insufficient lubrication of the gear L6 (4-80). To solve this problem, the shaft of the gear L6 has been provided with a grease stay, effective June 22, 1995 (Body Serial No. 5070001) and thereafter.



When this trouble is anticipated, replace the gear train assembly (4-55) with a new one. Do not replace the gear L6 (4-80) alone. The shaft holder (4-77) may have been worn.

Former			New			Can be supplied or not
Ref. No.	Name	Part No.	Ref. No.	Name	Part No.	
4-55	Gear train assembly	46A 7827310	4-55	Gear train assembly	46A 7827311	○

The new type has been supplied since December 15, 1995.

TECHNICAL INFORMATION

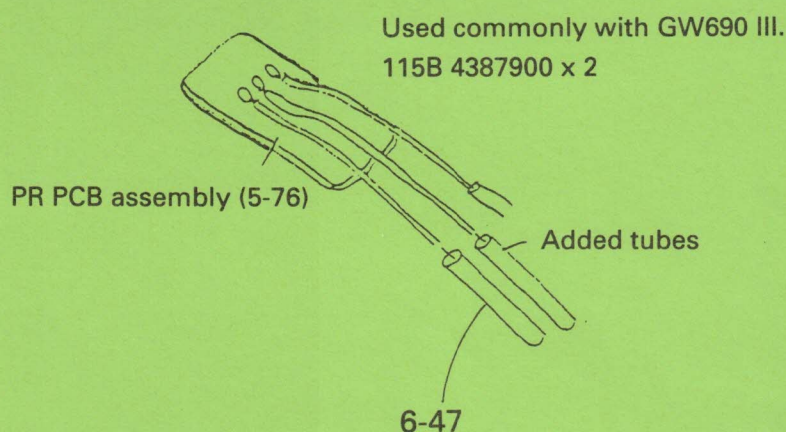
SUBJECT : Improved first frame set time

MODEL : GA645 Professional

November 17, 1995

DESCRIPTION :

It was anticipated that the lead wires might be bit by the soldered portion of the PR PCB assembly (5-76) causing a short-circuit. So, tubes are applied to the lead wires to protect them from damaging.



The tubes are added to prevent short-circuit.

Parts change

Current			New			Inter-change-ability
Ref. No.	Part Name	Part No.	Ref No.	Part Name	Part No.	
		None	6-47	Tube	115B4387900	○

Effected on those manufactured on May 11, (Body Serial No. #505xxxx) and thereafter.

TECHNICAL INFORMATION

SUBJECT : Specification change

MODEL : GA645 Professional

July 18, 1996

DESCRIPTION :

As GA645 Wide has now been placed in the market, the following items of GA645 are changed to be used commonly with GA645 Wide so that many manufacturing processes can be applied to both models commonly.

CHANGED ITEMS	DESCRIPTION
① Select dial	Except for ISO, all modes are locked so that this dial will not be turned erroneously. (However, OFF → ISO with lock, ISO → OFF without lock)
② Number of exposures	120 film : 16 frames 220 film : 32 frames
③ Self-timer LED	Does not light immediately after releasing the shutter.
④ Data printing	AF or MF will be printed at the end of data.
⑤ AF button, + - button	The button is provided with a bank around it so that the button will not be pressed downerroneously. (This item only will be effected on Body Serial #606XXXX and thereafter. Refer to No. 96-34.)
⑥ Soft case	The size is increases so that the camera can be accommodated with the lens hood attached.
⑦ Lens driving unit	To reduce operating sound, the reduction gear unit base material is changed to zinc die cast.
⑧ Owner's manual	Changed accordingly.

The above changes will be effected on Body Serial #6070001 and thereafter except for Item ⑤ above.
(The Item ⑤ will be effected on Body Serial #606XXXX and thereafter.)



TECHNICAL INFORMATION

SUBJECT : Changed Flash Time Limit (FTL)

MODEL : GA645 Professional

May 7, 1996

DESCRIPTION :

The level at which the flash fires automatically at a low brightness under the programmed AE mode is changed as shown below :

Current	Changed to
Aperture F4	F4
Shutter speed : 1/30 sec.	1/45 sec.

For the details of maintenance service with this change, refer to the attached "Additional services provided in response to the changed FTL".

Additional Services provided in response to the Changed FTL

To prevent hand shake at a low shutter speed, the FTL (Flash Time Limit) under programmed AE mode is changed as follows :

	Changed from	Changed to
Aperture :	F4	F4
Shutter speed :	1/30 sec.	1/45 sec.

This change is effected on those manufactured during January, 1996 (Body Serial Number 6010446) and thereafter.

This specification change should be made only when the customer requests.
(A PC software for repair required to make this specification change has been completed and will be sent soon.)

The FTL 1/30 sec. has been set for the purpose of taking back ground emphasized pictures at a sun set etc. It is believed that many GA645 Professional owners still support this specification and the manufacture should not change the original specifications. For this reason, the change will be made only when owners request.

When this change is made, provide the owner with a copy of the Owner's Manual for FTL 1/45 sec. (English version of the Owner's Manual printed in five different languages; Page 23, 29, 35 and 36.)

When the change is made, place the camera under:

- (1) Programmed AE mode
- (2) Ready to fire the flash
- (3) A low brightness (EV 8 or below)

Now, press the shutter release in a halfway down, and look into the viewfinder to see if the shutter speed is 1/30 sec. or 1/45 sec.

Further, it should be noted that:

- (1) Two PC softwares are used; one is for FTL 1/45 and the other is for FTL 1/30.
- (2) If the FTL 1/30 software is used for a camera after changing the specification to FTL 1/45, the FTL will be changed to 1/30 sec.
- (3) Likewise, if the FTL 1/45 software is used for a camera with FTL 1/30, the FTL will be changed to 1/45 sec.


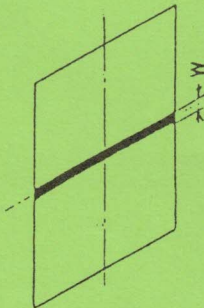
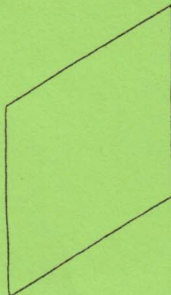
When repairing, keep the above instructions in your mind and carry out the work very carefully.

TECHNICAL INFORMATION

SUBJECT : Additional special tools

MODEL : GA645 Professional

August 28, 1995

Name	Application	Remarks
AF Grey chart (36%)	Active AF measurement (To write EE PROM)	 <p>Size : A2</p>
AF pattern c chart Type A Type B NOTE : Using white paper, make this chart by yourself. To be specific, cover up the white paper except for the black stripe portion, and paint the stripe portion with a black non-glossy splay.	Passive AF measurement (To write EE PROM)	 <p> Type A Size : A3 Stripe width : 9mm Type B : Size : A2 Stripe width : 28mm (Black non-glossy stripe on white paper) </p>
Flash grey chart (Oxford Gray Superior No. 22)	Flash synchro measurement (To write EE PROM)	 <p>Size : 1.5 x 1.5m or larger</p>

TECHNICAL INFORMATION

SUBJECT : Changed top cover shape

MODEL : **GA645/W** [Ref No. 2]

February 16, 1998

DESCRIPTION :

The AF button and exposure compensation button (+/-) on the top cover (1-2) are now provided with ribs so that these buttons will not be pressed in erroneously.

This modification has already been executed.

(Reason)

To prevent erroneously pressed in AF button and exposure compensation button (+/-).

Parts change

Current			New			Can be supplied or not
Ref. No.	Part Name	Part No.	Ref. No.	Part Name	Part No.	
GA645						
1- 1	Top cover assembly	303A 7824310	1- 1	Top cover assembly	303A 8520900	○
GA645 W						
1- 1	Top cover assembly	303A 8520950	1- 1	Top cover assembly	303A 8521150	○

Effected on those manufactured during June, 1996. (Body Serial #606XXXX and thereafter.)

The new part has been supplied since July, 1996.

Instruction for Service Station

◎ For current part:

☐ Do not use

☒ Use until depleted

☐ Other

- ↳ ☐ Replace current part only if current part is broken.
☐ Replace current part with new part on all repairs.

◎ Service Manual

☐ Need correction

☒ No correction is required.

- ↳ ☐ Make correction to Service Manual.
☐ FUJI FILM will print and send the appropriate page(s) to the Service Stations for replacements.

FUJI PHOTO FILM CO., LTD.

26-30, Nishiazabu 2-Chome, Minato-ku, Tokyo 106-8620, Japan

TECHNICAL INFORMATION

SUBJECT: Additional information for new/former type FPCB part numbers and identifying method

MODEL: GA645 / GA645 WIDE

June 26, 1997

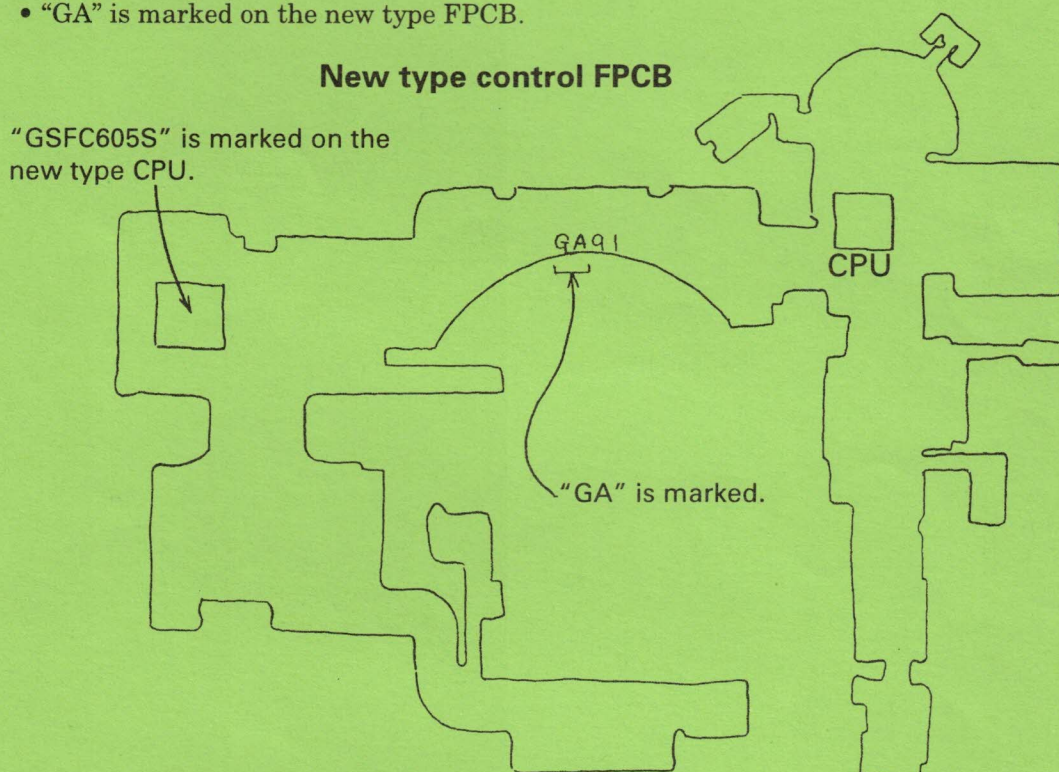
DESCRIPTION:

When the repair program used commonly for GA645 and GA645 WIDE was sent, it was informed that, on Technical Information No. 96-53 dated November 15, 1996, the new and former type CPUs had to be identified.

Regarding the above matters, two more information are added as follows :

(1) Identifications of new type CPU and new type FPCB

- "GSFC605S" is marked on the new type CPU. (Already informed by Technical Information No. 96-53)
- "GA" is marked on the new type FPCB.



(2) New type FPCB part number

See below.

Part change

Current			New			Can be supplied or not
Ref. No.	Part Name	Part No.	Ref No.	Part Name	Part NO.	
3-70	Control FPCB assembly	110A 7821810	3-70	Control FPCB assembly	110A 8520930	○

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26-30, Nishiazabu 2-Chome, Minato-ku, Tokyo 106, Japan

TECHNICAL INFORMATION

SUBJECT: Forwarded is "Repair Program" which can be used commonly for GA645 and GA645WIDE.

MODEL: **GA645 / GA645 WIDE**

November 15, 1996

DESCRIPTION:

The operating method and tools used are almost same as those for the conventional GA645.

As for GA645, those with Body Serial No. 6070001 and thereafter cannot be adjusted without the forwarded Repair Program.

The Repair Program forwarded this time can be used commonly for both GA645 and GA645 WIDE regardless of body serial numbers. However, your attention is invited when replacing a control FPCB assembly (3-70) with a new one. When you replaced a control FPCB assembly with a new one, be sure to adjust the FPCB first before making any other adjustments.

1. Former type CPU or new type CPU must be identified and the identified type must be input.

The former or new type can be identified with the identification number marked on the camera bottom.

GSFC604S: Former type CPU

GSFC605S: New type CPU

2. It must be noted that when the control FPCB assembly (3-70) of a camera with a former type CPU is replaced with that of a new type CPU, the functions are changed as indicated below.

- (1) FTL 1/30 is changed to 1/45.
- (2) Focus mode (AF/MF) can be printed.
- (3) Self-timer lamp no longer lights immediately after releasing the shutter.
- (4) Cameras of 15 exposures (120 film) and 30 exposures (220 film) are changed respectively to those of 16 exposures and 32 exposures.

When functions are changed, inform and explain the changed functions to the camera owner.

FUJI PHOTO FILM CO., LTD.

26-30, Nishiazabu 2-Chome, Minato-ku, Tokyo 106, Japan

TECHNICAL INFORMATION

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MODEL : GA645 / GA645 WIDE

November 15, 1996

DESCRIPTION :

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