

作成承認印

配布許可印



AF240SV

FCA43001

AF240SV
QUARTZ DATE

FCA43201

Fun Touch 6

FCA43101

Fun Touch 6
QD/SELF

FCA43301

REPAIR MANUAL

Nikon | NIKON CORPORATION
Tokyo, Japan

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SPECIFICATIONS

TYPE OF CAMERA

Type: 35mm lens-shutter camera

Picture Format: 24mm x 36mm

LENS

Focal distance: 28.5mm

Brightness: F5.6 (F-number: F5.6)

Construction: 3 groups 3 elements

Shooting distance: 1m to infinity

EXPOSURE

Shutter type: behind-the-lens mechanical shutter

Shutter speed: 1/100 sec. fixed

ISO rating: ISO 100/200, 400

Photo-electric element: cds

Aperture: F5.6 fixed.

FINDER

Method: Reverse-Galilean Albada bright-frame Finder

Frame coverage: 85 (-5/+10)%, at 3m

Diopter: -1 (at infinity)

Magnification: 0.63 x

FLASH

Automatic Flash at low brightness

Guide Number: 9(ISO 100: m/at 30 sec. after recharge completed)

Automatic Flash Level:

	ISO 100	ISO 400
FIRING	LV 10	LV 9
OFF	LV 12	LV 11

Red-Eye-Reduction function: built-in

Tungsten Lamp "ON" during a release button pushing half-way.

Display of completion of recharge:

Shown by green LED light positioned in the left side of a finder.

Recycling Time: approx. 6 sec.

POWER SOURCE

Power source: AA Battery (two pcs) in Alkaline (R6/LR6)

Operative Voltage: 2.4 to 3.2V

DIMENSIONS: (W x H x D)



Without data back 110mm x 67mm x 37mm

With data back 110mm x 67mm x 42mm

WEIGHT (body only, without battery)

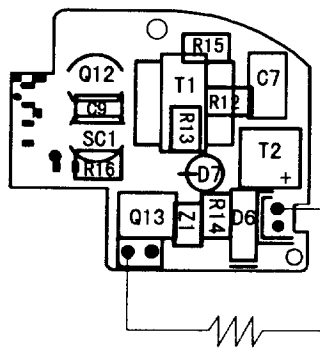
Without data back 155g

With data back 160g

 WARNING	
	<ul style="list-style-type: none"> • There are high voltage parts inside. Be careful of this electric shock, when you remove the cover. • You must discharge the main condenser according to the instruction of this repair manual after you remove the front cover.

[DISCHARGING OF THE MAIN CONDENSER]

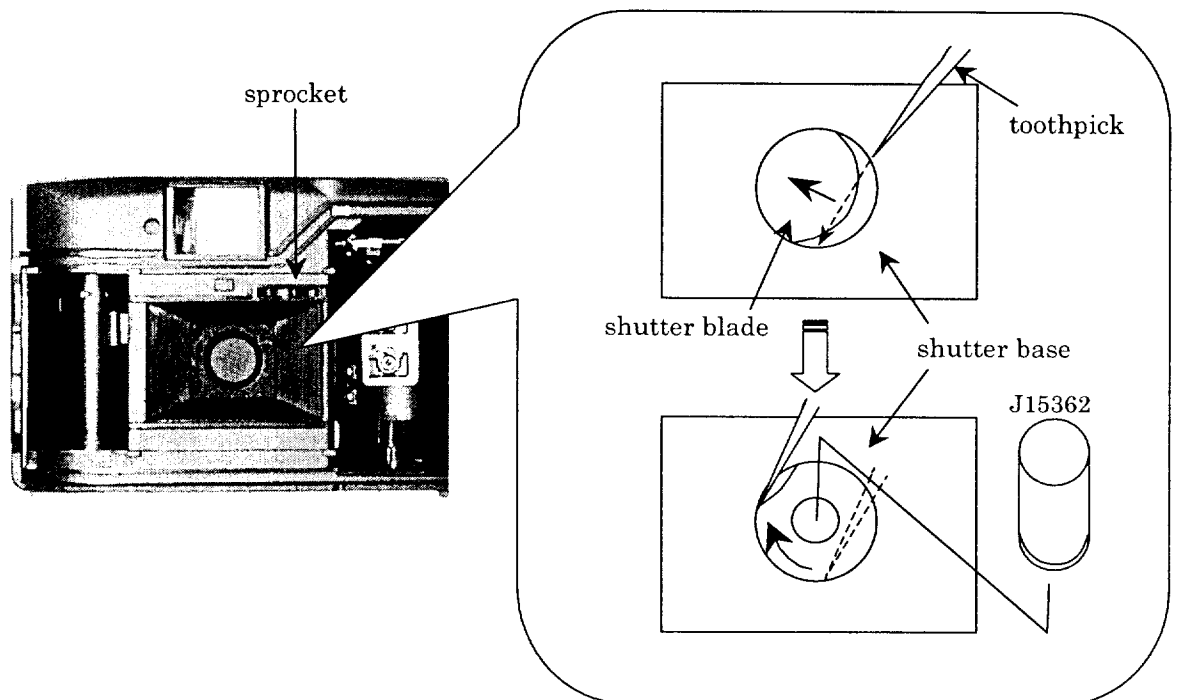
- Discharge the main condenser from both ends of flash tube or between the terminals of the main condenser.
- Use a discharge resistor of approx. 2K Ω /5W.



Discharge resistor

〔CHECKING THE LENS BACK FOCUS〕

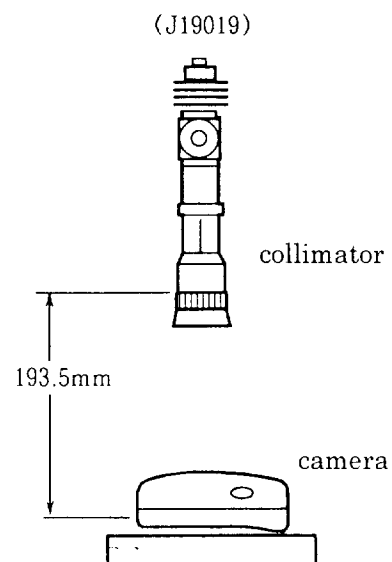
- ① Remove a loaded battery from the camera.
- ② Open the rear cover, and advance a film frame or more by manually revolving the sprocket in the film advance direction.
- ③ Open the shutter blade with a finger stall-capped finger until a hole on the shutter base can be seen.
- ④ Insert a toothpick or so to the hole, and keep the shutter blade open.
Note : In order to avoid scratching the lens, shift the toothpick along the edge of shutter base.
- ⑤ Put the **newly arranged tool J15362** in to the hole on shutter base, and then hook the open shutter blade to a groove of the tool. Then, its setup is complete.



- ⑥ Place a flat mirror on the internal rails.
Then, using the collimator J19019,
check the lens back focus.

Standard : -7.2 ± 3.1

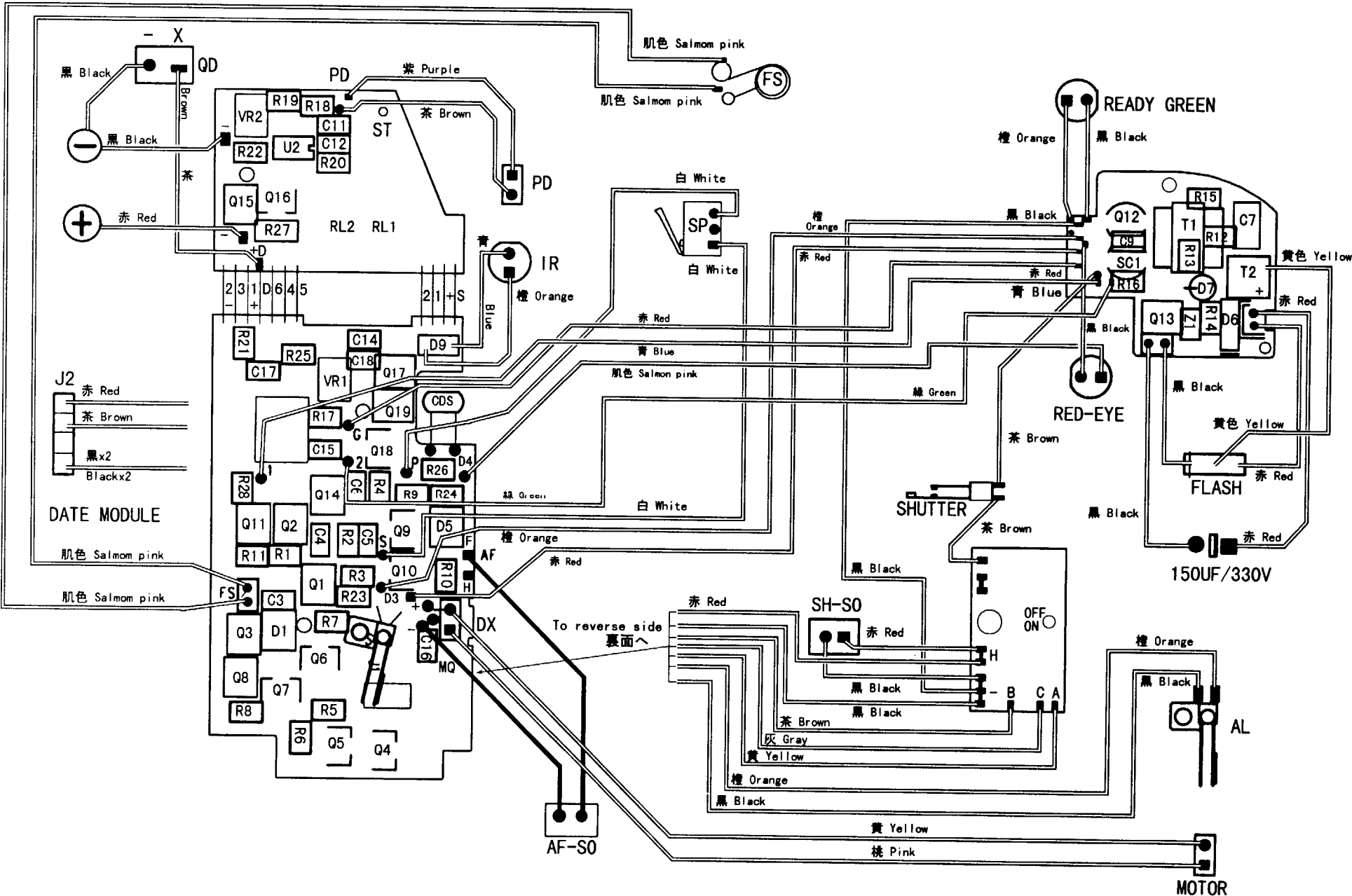
- ⑦ After checking, remove the tool J15362.



TROUBLE-SHOOTING

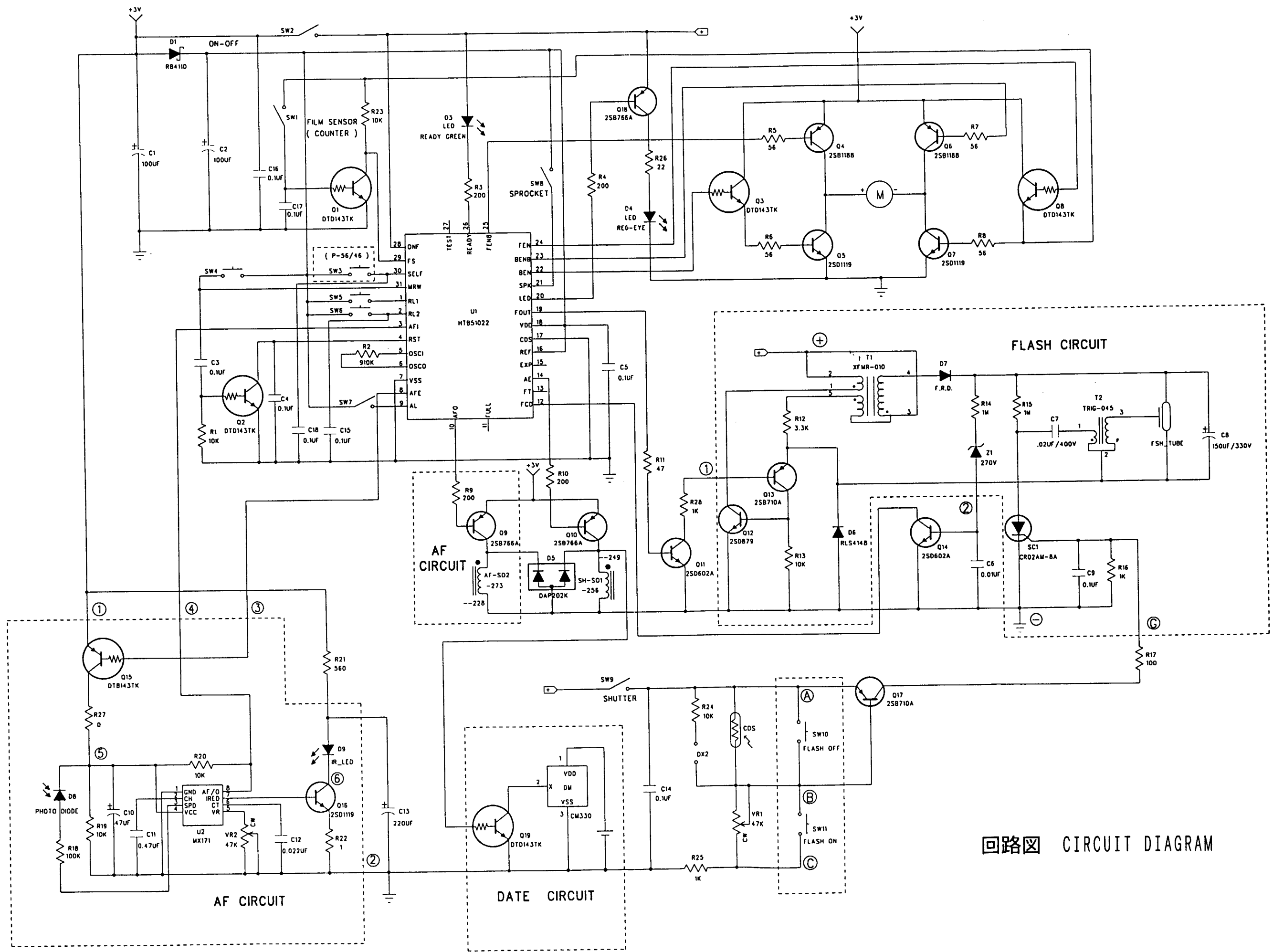
No.	Trouble	Cause & Solution	Remark
1-1	No charge	Check T1, Z1, D7, Q14, Q12, Q13, U1 pin19, main capacitor & related circuit.	
1-2	Flash doesn't light	Check Q17, C7, VR1, shutter switch, T2, SCR CDS, shutter action, tube & related circuit.	
1-3	The fill-in & flash off function fail	Check 3 way PCB & related circuit.	
2-1	Motor can't rotate in advancing direction	Check Q4, Q7, Q8, U1 pin25. 24, motor, gear system, rewinding leaf spring & related circuit.	
2-2	Motor can't rotate in rewinding direction	Check Q6, Q5, Q3, U1 pin23.22, motor, gear system, rewinding leaf spring & related circuit.	
2-3	Advancing fails and rewinding automatically	Check Q1, U1 pin29, film sensing switch, motor leaf spring, motor, gear system & related circuit.	
2-4	Auto advancing fails	Check leaf switch, U1 pin9, D1, power source & related circuit.	
2-5	Counter can't advance to "1"	Check sprocket cam micro switch, U1 pin21, kicker & related circuit.	
3-1	Camera no reaction	Check D1, leaf switch, power source & related circuit.	
3-2	Self-timer can't be actuated	Check U1 pin30.20, Q18, D4 & related circuit.	
4-1	AF system out of function	Check Q15, Q9, VR2, D9, D5, D8, C13, C10 Q16, U1 pin10.8.3, AF solenoid valve & related circuit.	
5-1	Shutter can't open	Check shutter blade switch, U1 pin 14, D5, Q10, AE solenoid valve & related circuit.	

実体配線図 WIRING DIAGRAM



— E1 · AF240SV —

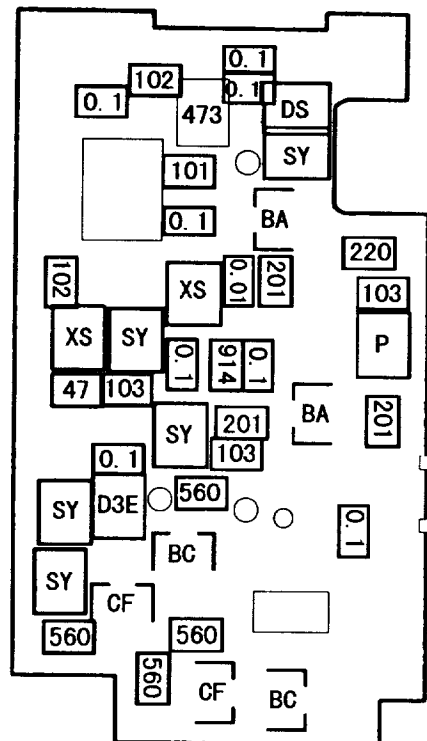
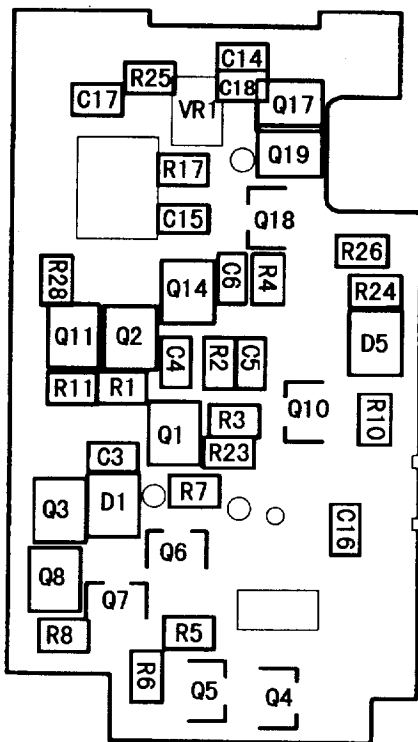
FGA43001-R. 3471. A



回路图 CIRCUIT DIAGRAM

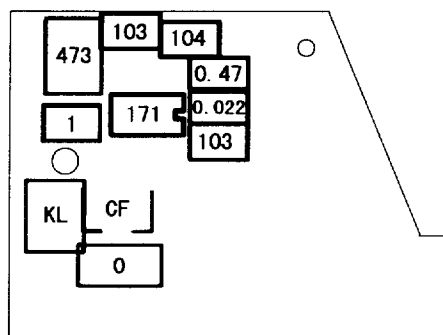
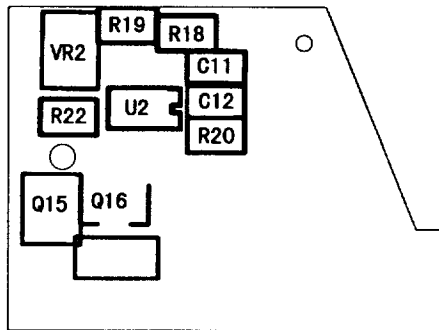
MAIN PCB

Name	Marks	Name	Marks
2SD602A	Q11/Q14	1K	R25/R28
2SB710A	Q17	10K	R1/R23/R24
2SD1119	Q5/Q7	22	R26
2SB766A	Q9/Q10/Q18	200	R3/R4/R9/R10
DTC143TKA	Q1/Q2/Q3/Q8/Q19	47	R11
2SB1188	Q4/Q6	910K	R2
DAP202K	D5	0.1UF	C3/C4/C5/C14/C15/C16/C17/C18
RB411D	D1	0.01UF	C6
VR 47K	VR1		
56	R5/R6/R7/R8		
100	R17		
560	R21		



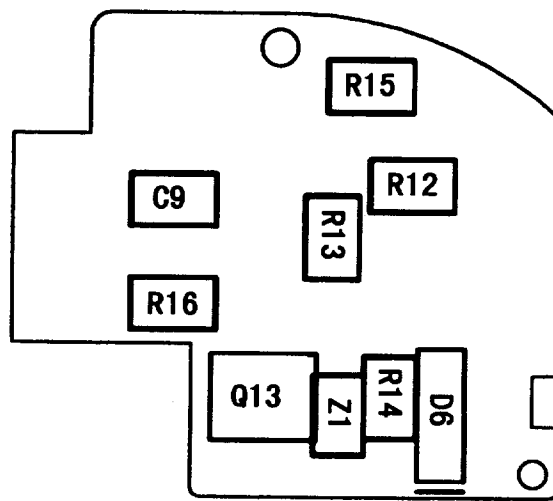
SELF TIMER PCB

Name	Marks	Name	Marks
MX171	U2	100K	R18
2SD1119	Q16	1	R22
DTA143TKA	Q15	0.022UF	C12
VR 47K	VR2	0.47UF	C11
0	R27		
10K	R19/R20		

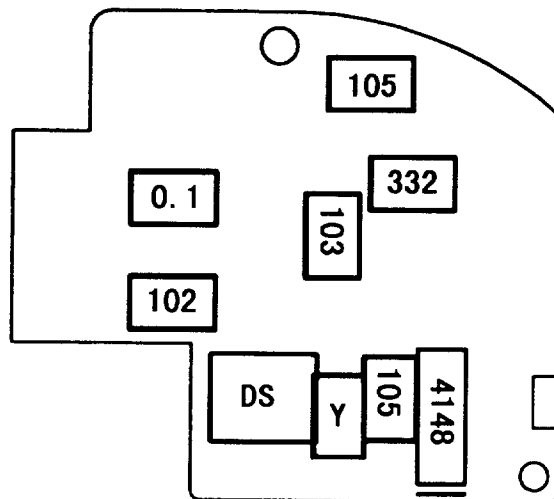


FLASH PCB

Name	Marks	Name	Marks
2SB710A	Q13	10K	R13
RLS4148	D6	1M	R14/R15
270V	Z1	0.1UF	C9
1K	R16		
3.3K	R12		



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