

TROUBLESHOOTING CHART

This section consists of the following items.

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Precautions

- (1)To check voltage, use digital Multimeter or an apparatus which input impedance of 10M or greater.
- (2)To check conductivity, use a circuit tester of 3V or less.
- (3)Check mainly soldering at lead wires or electrical elements and switch operation, since elements (IC, diode, transistor, resistor, or condenser) seldom cause the trouble.
- (4)When checking, do not push elements or pull lead wires strongly.
- (5)When checking voltage at patterns where switch operates, be careful not to prevent switch operation or to scratch patterns.
- (6)Before removing electrical parts, be sure to disconnect Power Supply.
- (7)Since this model uses lead-free solder, a soldering iron tip temperature of 280 - 350 ° C is sufficient.
But when it cannot melt solder, use a higher temperature for a short period of time.
- (8)When handling ICs avoid static electricity.
- (9)When using DC Power Supply, set the unit to 5.8V/0.6 .

■ Trouble code

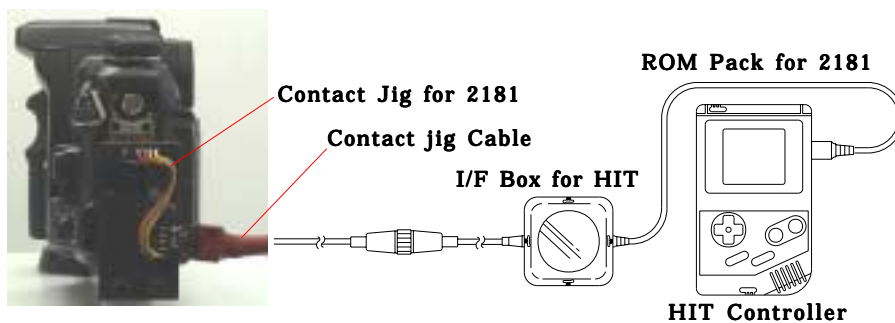
Equipment required for Check

HIT Controller
Contact Jig for 2181
I/F Box for HIT
Contact jig Cable
ROM Pack for 2181

Check Using HIT

1. Set up the equipment as in Fig. 1.
2. Select "TROUBLE CODE" from ASSIST MODE menu and press SELECT BUTTON.
3. Press the shutter-release button partway down (S1 ON). Trouble codes appear.
To erase the codes in memory, select CLEAR and press SELECT BUTTON. Then press the shutter-release button partway down.
4. After check, select "MENU" and press SELECT BUTTON to return to the ASSIST MODE menu.

Fig. 1



Trouble Code List

code	Condition	Major Cause	Camera Operation	Error indication	
				Enough	Low-battery
50	SCAM2 never become OFF within 150ms after charge motor driving on mirror up.	Charging mechanism NG.	After all motors brake for 50ms,system down.	ERROR	ERROR
52	FP pulse number is short more than 32 pulse after aperture stabilized.	Aperture mechanism NG.		ERROR	ERROR
53	SCAM1 never become ON within 2s after charge motor driving on charging.	Charging mechanism NG.		Blank	BC lock
54	SCAM2 never become ON within 2s after charge motor driving on charging.	Charging mechanism NG.		Blank	BC lock
56	XON already ON at the beginning of release (before mirror up).	Shutter undercharge		Blank	BC lock
57	XON already ON just before shutter release.	Shutter undercharge		ERROR	ERROR
58	XON never become ON between 1st curtain release and 2nd curtain running complete.	Shutter undercharge XON sw contact NG.		ERROR	ERROR
59	XON become OFF when just before charging. (after about 25ms from 2nd curtain running)	1st curtain rebound. XON sw contact NG.		ERROR	ERROR
5A	SFOPEN never become ON within 2s after aperture open drive start.	Aperture mechanism NG. SFOPEN contact NG.		Blank	BC lock
5B	In aperture driving , FP pulse cannot reach a target pulse within 130ms.	Aperture mechanism NG. Aperture PI NG.		ERROR	ERROR
60	SCAM2 already OFF before mirror up driving start.	Charge overrun in last charging.		Blank	Blank
61	SCAM2 become OFF after final brake finished (motor off) on charging.	Charge overrun.		Blank	Blank
B0	AF/MF cannot change within 2s after AFM motor driving start.	AF/MF PR NG. AF/MF changeover mechanism NG.		None	None
01	ADT never output within 80 μ s on CCD 2nd initialization. (Normally,it comes within about 13 μ s)	AF-CCD NG. AF-FPC connection NG.		Blank	Blank
02	Output of AE-IC (LMOUT) cannot become 2.3V - 2.6V. (when battery on)	AE-IC NG. AE-FPC connection NG. IC313 NG.		Blank	Blank
03	IO/IC standard voltage (1.55V) is out of range on FP gain adjustment.	IC304 NG.		ERROR	ERROR
04	SFOPEN never become OFF within 100ms after start driving on FP gain adjustment.	SFOPEN sw always short.		ERROR	ERROR
05	FP1 amplitude cannot reach the limit on FP gain adjustment.	Aperture PI NG. Aperture PI-FPC connection NG.		ERROR	ERROR
06	FP2 amplitude cannot reach the limit on FP gain adjustment.	Aperture PI NG. Aperture PI-FPC connection NG.		ERROR	ERROR
07	AFMPR amplitude cannot reach the limit on AFM gain adjustment.	AF/MF PR NG. AF/MF PR-FPC connection NG.		ERROR	ERROR

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Trouble Code List

code	Condition	Major Cause	Camera Operation	Error indication	
				Enough	Low-battery
0A	AFP signal cannot reach prescribed level on adjustment.	AFP1(2) line open or short. AFM1(2) line open or short (AF-motor cannot drive)		ERROR	ERROR
0B	AFP signal cannot reach prescribed duty on adjustment.	AFP1(2) position NG.		ERROR	ERROR
0C	AFP signal cannot detect prescribed number in 100ms.	Reverse connection of AFM1/2. Phase shift of AFP1/2.		ERROR	ERROR
30	Bilt-in flash charging error. (charging cannot finish within 30s)	Fuse has blown. Flash charging circuit has damaged. IGBT NG.		BC lock	BC lock
31	Built-in Flash cannot fire.	Fuse has blown. Flash charging circuit has damaged. IGBT NG.		Blank	BC lock
32	Bilt-in flash charging error. (voltage cannot reach 50V within 5s)	Fuse has blown. Flash charging circuit has damaged. IGBT NG.		Blank	BC lock
33	Bilt-in flash charging error. (2.75s later from once reach 290V, the voltage dropped below 290V again)	Fuse has blown. Flash charging circuit has damaged. IGBT NG.		Blank	BC lock
A0	Unexpected Err on digital section (ASIC).	Software problem.			
A1	Cannot receive reply from TEBURE IC.	TEBURE IC NG. TEBURE IC connection			