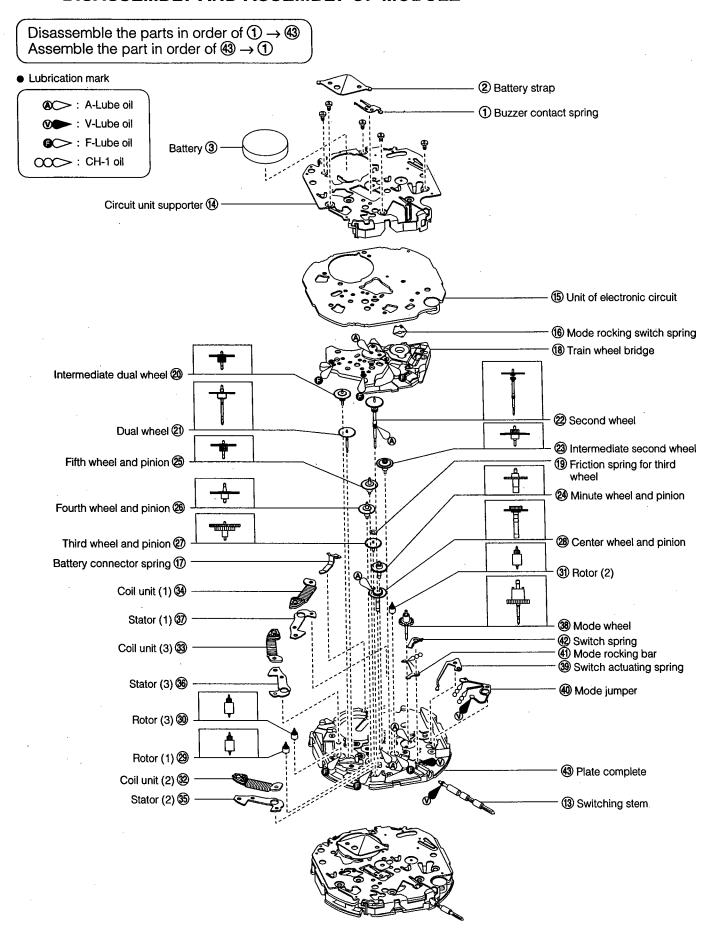
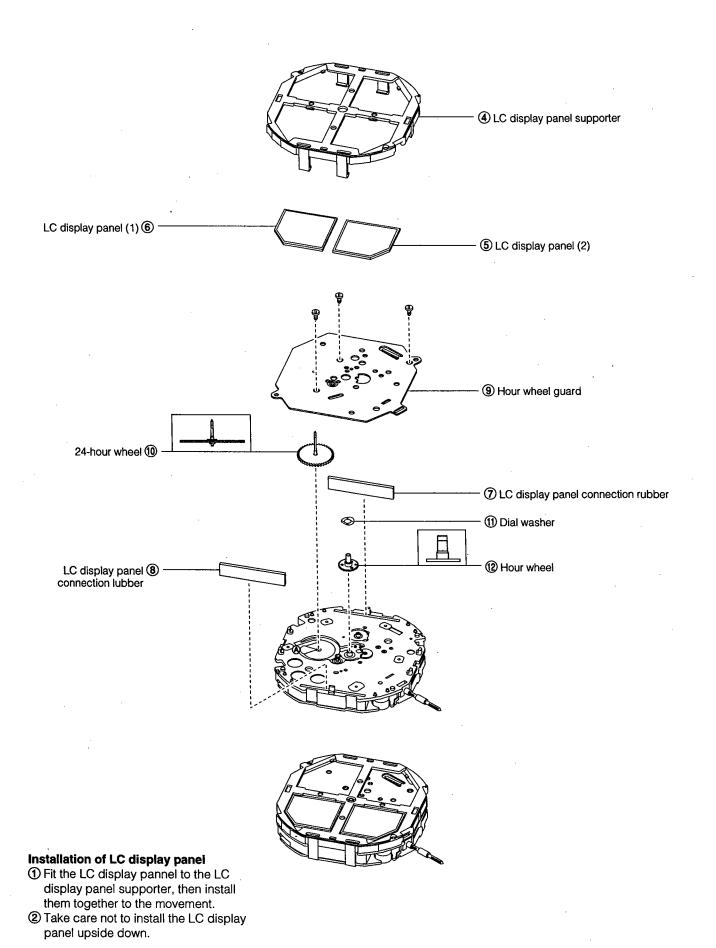
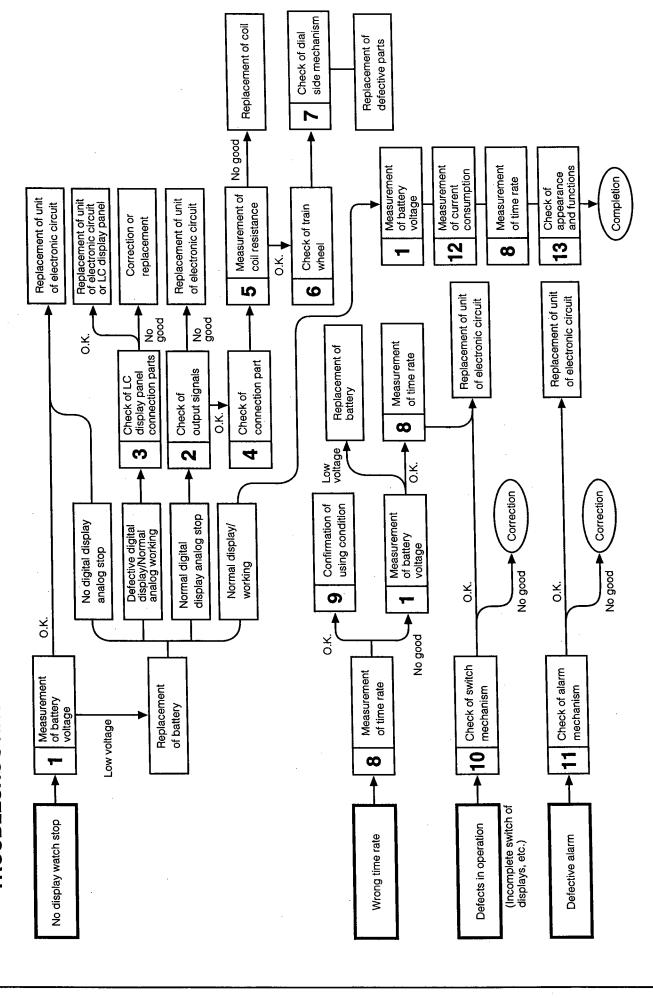
DISASSEMBLY AND ASSEMBLY OF MODULE





TROUBLESHOOTING AND ADJUSTMENT



Check Points	How to Check	Results and Treatments
Measurement of baterry voltage	[Refer to Technical Manual, Basic Course II-1-a] <tester 3v="" dc="" range:=""></tester>	 Over 1.5 V Normal Under 1.5 V Replace the baterry.
Check of output signals	[Refer to Technical Manual, Basic Course II-1-b] <tester 0.3v="" dc="" range:=""></tester>	 The tester pointer swings every 1 second. → Normal
	H A A A A A A A A A A A A A A A A A A A	The tester pointer does not swing.
	(The tester lead pins have no polarity.)	
Check of LC display panel and connection parts	[Refer to the Digital Section of Technical Manual, Basic Course II-2-a] • Inspection of all segments Pull out the button to the first clicking position, then push the , and buttons at the same time to turn off the digital indication. Release the button, and the digital indication in turned on. Check for defective segments. (Refer to §16. ALL RESET OPERATION) • Continuity test on LC display panel, cell connection rubber and plate. Check the parts for stain, breakage, etc.	 LC display panel, connection rubber or metal plate is not installed correctly. → Install correctly. Parts are stained or dirty. → Remove stain and directed. → Replace parts.
Check of connection part	[Refer to Analog Section of Technical Manual, Basic Course II-2-a]	

Check Points	How to Check	Results and Treatments
Measurement of coil resistance	 [Refer to Technical Manual, Basic Course II-1-c] Remove the unit of electronic circuit, then measure the resistance of coil. The tester lead pins have no polarity. <tester 10ω="" r="" range:="" x=""></tester> 	 1.1 kΩ ~ 1.6 kΩ (coil unit 1 & 3) 0.6 kΩ ~ 0.8 kΩ (coil unit 2) → Nomal Outside range of 1.1 kΩ ~ 1.6 kΩ (coil unit 1 & 3), 0.6 kΩ ~ 0.8 kΩ (coil unit 2) → Replace coil unit.
6 Check of train wheel	[Refer to Technical Manual, Basic Course II-2-b] • Check clearance of each wheel. Check rotor for dust and oil.	
Check of dialside mechanism	[Refer to Technical Manual, Basic Course II-2-c] Confirm all parts are not deformed and are lubricated properly.	
Measurement of time rate	 [Refer to Technical Manual, Basic Course II-2-d] Since this watch uses the D.F.C. (digital frequency control) method and has no control terminal, there is no way of adjusting its time rate in the field. (Measurement is made in a 10-second range.) 	The watch loses or gains a substantial amount of time. → Replace the unit of electronic circuit.
Confirmation of using condition	[Refer to Technical Manual, Basic Course II-2-e]	
Check of switch mechanism	1. Inspection of movement. • Press the switch spring of circuit unit supporter with tweezers, etc. to contact it to plate complete, and confirm the switching function. • Check for removal of pattern of electronic circuit unit, deformation of switch return spring, etc. 2. Inspection of push button • Check push button for deformation, stain, etc. (Note) Be sure to apply silicone oil to the packing of push button for waterproofness and smooth operation.	 Switching function is normal. Inspect push button. Pattern is removed or deformed. Replace defective parts. Push button is stained or deformed. Remove stain, or replace push button.

	Check Points	How to Check	Results and Treatments
Į	1 Check of alarm	[Refer to Technical Manual, Basic Course II-1-d]	Tester pointer does not
	mechanism	*1. Set the movement in the case, and check output of alarm signal with the case back removed.	swing. → Replace the electronic circuit unit.
		(1) Set the watch in alarm mode.	.
		(2) Apply ⊕ lead pin to battery surface and ⊖ lead pin to pattern of buzzer contact spring, them press © button.	 Tester pointer swings. → Normal
		<tester 0.3v="" dc="" range:=""></tester>	◆ Perform inspection in *2.
			Normal indication. → O.K.
		AARAN CHITIZEN MOJEMETS ARE CONTINUED AREA CONTINUE	
	·	*2. If the output of alarm is normal, perform the following inspection.	
		 Check the piezo-electric element of vibrating plate for cracks and breakage. 	
		 Check the buzzer contact spring for bend and deformation. 	
		Check the pattern of electronic circuit unit for dust and stain.	
-			

Check Points	How to Check	Results and Treatments
2 Measurement	[Refer to Technical Manual, Basic Course II-1-f]	
of current consumption	(1) Set the battery to tester.	
Consumption	(2) Set the lead bars of the tester to the module. Pull the we button and push the three buttons at the same time, them push the we button (The all-reset operation procedure). Then measure the suggestion of the suggestion of the suggestion of the suggestion.	a Courant accourantion of the
	procedure). Then, measure the current consumption. <use 10μα="" dc="" range:="" tester="" the=""></use>	 Current consumption of the movement
		Under 3.5 μA . → Nomal
		Over 3.5 μA. → Inspect train wheel and dial side mechanism, and remove dust and stain and oil.
	APAN CITIZEN CITIZEN NO ENELS	 Pull the button to measure the current consumption under the reset state.
	(Under 0.5 μA. → Nomal
	★ Precautions for measurment	Over 0.5 μA. → Electronic circuit unit
	Be sure to measure according to the above procedure. If measurement is not performed according to the above procedure, the watch may indicate and operate abnormally and the current power consumption cannot be measured correctly.	is defective. Replace the electronic circuit unit.
	When the lead bars are applied to the measurement parts, the meter reading may exceeds the maximum value. In this case, wait for about 30 seconds, then measure again.	
	Influence of light	
	Avoid taking measurements under an incandescent lamp or direct sunshine, because this may cause the current value to increase. The light of a fluorescent lamp has no influence on current consumption.	
Check of appearance and	[Refer to Technical Manual, Basic Course II-2-f]	
appearance and functions	Check inside of case for dust and stain.	
	Check operation of setting switches for normality.	
	 Check segment for normality (See 3 Check of LC display panel and connection part.) 	
	* Be sure to apply silicone oil to packing of each push button. It is necessary for water resistance and smooth operation.	