

## **Casing ( Seiko water resistant case)**

# CASING

In watch repair servicing, it is essential for watchmakers to know the case construction as well as the movement construction. There are different kinds of the cases since SEIKO has a wide range of models on the overseas market. Especially, there are more advanced construction of the glass portion in these models than there is in the case back construction. Considering that it will sooner occur for repair of the mentioned portion in after-sale servicing than repairing the movement shortly after the watches are placed on the market, the casing item is, therefore, shown in the technical guide book as follows:

The case back construction of SEIKO watches is classified into five types. Each case back construction has several types of glass construction.

The combination is given on the table of "Index List for Case Construction" and "Glass & Bezel Construction". Each type of case construction is shown in details on the separate pages. Refer to each explanation sheet in repair servicing.

## Index List for Case Construction (on Green pages)

This table shows the entire case construction by indexing the case number.

Remarks:

Explanation of the ordinary-type case is not included in the index list for case construction (on green page).

For example:

Case No.	Category/Type No.	Index No.
6119-802	A-1	Snap-3

**A-1** in the above list indicates one of the types on the table of the Glass construction that is classified into respective categories by the glass and bezel construction and shows ITS SECTION OF EACH CONSTRUCTION.

**Snap-3** in the above list explains the entire case construction on the separate sheet, including disassembling and reassembling procedures.

Remarks: The case number is engraved on the surface of the case back of each watch for identification.

# Index list for case construction

Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.
1004-019	F-1	Screw-5	2118-023	F-1	Snap-2	2205-004	T-1	One-piece-3
11 -016	T-1	One-piece-2	024	F-1	Snap-2	005	F-1	Screw-5
078	F-5	Screw-15	025	F-1	Snap-2	006	F-3	Screw-12
079	F-5	Screw-15	026	F-1	Snap-2	007	F-3	Screw-12
094	T-1	One-piece-1	027	F-1	Screw-5	008	F-4	Screw-16
405	K-3	Square-3	028	F-1	Snap-2	009	F-7	Screw-8
1104-006	F-1	Screw-5	029	F-1	Snap-2	010	A-1	Screw-7
009	A-1	Snap-3	031	A-1	Snap-3	011	F-3	Screw-12
010	A-1	Snap-3	032	A-1	Snap-3	012	F-3	Screw-12
015	F-1	Screw-5	034	F-1	Snap-2	013	T-1	One-piece-3
017	A-1	Snap-3	035	F-1	Screw-5	014	F-3	Screw-12
020	A-1	Snap-3	036	F-1	Screw-5	015	A-1	Screw-7
021	G-3	Snap-4	037	F-1	Screw-5	016	F-4	Screw-16
022	T-1	One-piece-1	038	F-1	Screw-5	017	A-1	Screw-7
1144-001	A-1	Snap-3	039	A-1	Screw-7	018	A-1	Screw-7
003	A-1	Snap-3	040	F-5	Snap-1	019	F-1	Screw-5
302	A-1	Snap-3	041	F-5	Snap-1	020	A-1	Screw-7
303	K-3	Square-3	042	F-5	Snap-1	021	A-1	Screw-7
304	K-3	Square-3	043	A-1	Screw-7	022	A-1	Screw-7
17 -031	T-1	One-piece-3	047	A-1	Screw-7	023	F-1	Screw-5
038	T-1	One-piece-3	049	A-1	Screw-7	024	F-1	Screw-5
040	T-1	One-piece-3	050	A-1	Screw-7	025	F-1	Screw-5
041	T-1	One-piece-3	326	A-1	Snap-3	026	F-1	Screw-5
045	T-1	One-piece-3	2119-002	F-1	Snap-2	027	A-1	Screw-7
063	T-1	One-piece-1	003	F-1	Snap-2	028	A-1	Screw-7
073	T-1	One-piece-1	004	F-1	Snap-2	029	A-1	Screw-7
084	G-2	Screw-14	005	F-1	Screw-5	030	F-3	Screw-12
085	G-2	Screw-14	006	F-1	Snap-2	031	T-1	One-piece-3
087	G-2	Screw-14	007	F-1	Snap-2	032	S-1	Screw-10
1944-001	T-1	One-piece-2	008	F-1	Snap-2	034	A-1	Screw-7
002	A-1	Screw-7	009	F-1	Screw-5	035	A-1	Screw-7
003	A-1	Screw-7	010	A-1	Screw-7	036	A-1	Screw-7
1964-001	A-1	Screw-7	2160-001	F-1	Snap-2	037	A-1	Screw-7
002	A-1	Screw-7	2201-500	K-3	Square-3	038	F-4	Screw-16
003	A-1	Screw-7	501	K-3	Square-3	039	S-1	Screw-10
21 -006	F-1	Screw-5	600	A-1	Screw-7	040	A-1	Screw-7
2104-005	F-1	Snap-2	601	A-1	Screw-7	041	F-1	Screw-5
008	F-1	Snap-2	2202-001	T-1	One-piece-3	042	B-2	One-piece-5
009	F-1	Screw-5	002	F-5	Snap-1	043	G-2	Screw-14
010	F-1	Screw-5	003	F-5	Snap-1	044	A-1	Screw-7
012	F-1	Screw-5	005	F-3	Screw-12	045	T-1	One-piece-3
013	F-1	Screw-5	007	F-5	Snap-1	046	F-4	Screw-16
2107-005	F-1	Snap-2	008	F-3	Screw-12	047	F-4	Screw-16
007	F-1	Snap-2	009	F-3	Screw-12	048	B-2	One-piece-5
008	F-1	Screw-5	010	A-1	Screw-7	049	A-1	Screw-7
010	F-1	Snap-2	011	F-1	Screw-5	050	F-4	Screw-16
011	F-1	Snap-2	012	F-1	Screw-5	051	F-3	Screw-12
012	F-1	Screw-5	013	F-4	Screw-16	052	F-3	Screw-12
013	F-1	Snap-2	014	F-4	Screw-16	053	A-1	Screw-7
2117-002	F-1	Snap-2	015	F-1	Screw-6	054	A-1	Screw-7
003	F-1	Screw-5	300	K-3	Square-3	055	B-2	One-piece-5
004	F-1	Snap-2	2205-001	B-1	One-piece-4	057	F-3	Screw-12
2118-020	F-2	Snap-1	002	A-1	Screw-7	058	F-3	Screw-12
021	F-1	Screw-5	003	F-3	Screw-12	059	F-1	Screw-5

Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.
2205-060	F-3	Screw-12	2206-027	G-1	Screw-14	2206-706	K-3	Square-3
061	F-4	Screw-16	028	A-1	Screw-5	707	K-3	Square-3
062	F-3	Screw-12	029	A-1	Screw-7	708	K-3	Square-3
063	F-3	Screw-12	030	G-1	Screw-14	2220-303	K-4	Square-4
064	A-1	Screw-11	031	G-1	Screw-14	315	K-4	Square-4
065	T-1	One-piece-4	032	G-1	Screw-14	316	K-4	Square-4
066	G-1	Screw-14	034	F-3	Screw-12	317	K-4	Square-4
067	G-4	Screw-18	035	F-4	Screw-16	322	K-4	Square-4
068	F-4	Screw-16	036	G-1	Screw-14	323	K-4	Square-4
069	F-4	Screw-16	037	F-4	Screw-16	345	K-3	Square-3
070	G-4	Screw-18	038	F-3	Screw-12	346	K-3	Square-3
071	G-4	Screw-18	039	G-1	Screw-14	351	K-3	Square-3
072	G-4	Screw-18	040	T-1	One-piece-4	352	K-3	Square-3
074	F-4	Screw-16	041	G-4	Screw-18	353	K-3	Square-3
075	A-1	Screw-7	042	G-4	Screw-18	356	K-3	Square-3
076	F-2	Screw-9	043	G-4	Screw-18	357	K-3	Square-3
077	A-1	Screw-7	044	G-4	Screw-18	358	K-3	Square-3
078	T-1	One-piece-4	046	G-4	Screw-18	704	K-4	Square-4
301	K-3	Square-3	047	F-3	Screw-12	705	K-4	Square-4
302	K-3	Square-3	048	G-4	Screw-18	706	K-4	Square-4
303	K-3	Square-3	049	G-4	Screw-18	2242-001	F-4	Screw-16
304	K-3	Square-3	050	G-4	Screw-18	002	G-1	Screw-14
305	S-2	Screw-15	051	G-4	Screw-18	2245-001	F-4	Screw-16
306	S-2	Screw-15	052	G-4	Screw-18	002	G-2	Screw-14
307	K-3	Square-3	053	F-4	Screw-16	2406-001	T-1	One-piece-3
310	K-3	Square-3	054	F-4	Screw-16	002	G-1	Screw-14
313	K-3	Square-3	055	G-4	Screw-18	003	G-1	Screw-14
314	K-3	Square-3	056	G-1	Screw-14	004	G-1	Screw-14
700	K-3	Square-3	057	G-4	Screw-18	005	G-4	Screw-18
701	K-3	Square-3	058	G-4	Screw-18	006	G-4	Screw-18
703	K-3	Square-3	059	G-4	Screw-18	007	G-1	Screw-14
705	K-3	Square-3	060	G-4	Screw-18	300	K-3	Square-3
706	K-3	Square-3	061	G-3	Snap-4	301	K-3	Square-3
2206-001	G-1	Screw-4	062	G-3	Snap-4	304	K-4	Square-4
002	T-1	One-piece-3	063	G-3	Snap-4	2409-001	T-1	One-piece-2
003	T-1	One-piece-3	064	F-4	Screw-16	300	K-3	Square-3
004	G-1	Screw-14	065	A-1	Screw-7	2411-005	B-1	One-piece-5
005	G-1	Screw-14	066	A-1	Screw-7	006	F-4	Screw-16
006	G-1	Screw-14	067	F-4	Screw-16	300	K-3	Square-3
007	G-1	Screw-14	068	A-1	Screw-7	2415-301	K-4	Square-4
009	A-1	Screw-7	069	F-4	Screw-16	2421-001	G-4	Screw-18
011	A-1	Screw-7	300	K-3	Square-3	2426-001	G-4	Screw-18
012	A-1	Screw-7	301	S-2	Screw-15	002	G-4	Screw-18
014	G-1	Screw-14	302	S-2	Screw-10	003	G-3	Snap-4
015	A-1	Screw-7	304	K-3	Square-3	2431-003	G-1	Screw-14
016	G-1	Screw-14	305	K-3	Square-3	004	G-1	Screw-14
017	A-1	Screw-7	306	K-3	Square-3	2466-001	G-4	Screw-18
018	G-1	Screw-14	307	K-3	Square-3	002	G-3	Snap-4
019	F-4	Screw-16	308	K-3	Square-3	2501-002	F-1	Snap-2
020	F-4	Screw-16	309	K-3	Square-3	003	F-1	Snap-2
021	F-4	Screw-16	700	S-1	Screw-10	005	A-1	Snap-3
023	G-1	Screw-14	701	S-1	Screw-10	006	A-1	Snap-3
024	G-1	Screw-14	703	K-3	Square-3	007	A-1	Snap-3
025	G-1	Screw-14	704	S-1	Screw-10	008	A-1	Snap-3

Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.
2501-009	T-1	One-piece-2	2518-012	T-1	One-piece-2	2706-303	K-1	Square-1
010	F-5	Snap-2	013	F-1	Snap-2	304	K-1	Square-1
2502-003	B-1	One-piece-4	015	F-5	Snap-2	305	K-1	Square-1
2505-005	F-1	Snap-2	017	F-1	Snap-2	306	K-1	Square-1
009	F-1	Screw-5	018	A-1	Snap-3	307	K-1	Square-1
010	F-1	Screw-5	019	A-1	Snap-3	308	K-1	Square-1
011	F-1	Screw-5	020	A-1	Screw-11	309	K-1	Square-1
012	F-1	Screw-5	021	A-1	Screw-11	310	K-6	Square-6
014	F-1	Screw-5	022	A-1	Snap-3	311	K-1	Square-1
703	B-1	One-piece-4	023	F-5	Snap-2	700	S-1	Screw-10
704	F-1	Screw-5	024	F-1	Screw-5	701	K-1	Square-1
2515-002	F-1	Snap-2	025	F-1	Screw-5	702	S-1	Screw-10
003	F-1	Snap-2	026	F-5	Snap-2	703	S-1	Screw-10
2516-001	F-1	Screw-5	301	K-2	Snap-1	704	G-1	Screw-14
002	F-1	Screw-5	706	S-1	Screw-10	705	S-1	Screw-10
003	F-1	Screw-5	2559-303	K-4	Square-4	706	S-1	Screw-10
004	F-1	Screw-5	2565-001	A-1	Screw-7	707	K-1	Square-1
005	A-1	Screw-7	002	A-1	Screw-7	709	S-1	Screw-10
006	A-1	Screw-7	2706-001	F-6	Screw-17	2906-001	A-1	Screw-7
2517-021	F-1	Screw-5	002	A-1	Screw-1	002	A-1	Screw-7
022	F-1	Screw-5	003	F-6	Screw-17	003	G-3	Snap-4
023	F-1	Screw-5	004	F-6	Screw-17	004	A-1	Screw-7
024	F-1	Snap-2	007	G-1	Screw-14	005	G-3	Snap-4
026	T-1	One-piece-3	008	G-1	Screw-14	006	G-3	Snap-4
028	F-1	Screw-5	009	G-1	Screw-14	007	G-3	Snap-4
029	F-1	Screw-5	010	G-1	Screw-14	008	G-3	Snap-4
031	F-1	Screw-5	011	G-1	Screw-14	009	G-3	Snap-4
033	A-1	Snap-3	012	A-1	Screw-1	010	G-3	Snap-4
034	A-1	Snap-3	013	G-1	Screw-14	300	K-1	Square-1
035	A-1	Screw-7	016	G-1	Screw-14	301	K-1	Square-1
036	A-1	Screw-7	017	G-1	Screw-14	302	K-1	Square-1
037	F-1	Snap-2	018	G-1	Screw-14	303	K-1	Square-1
038	F-1	Screw-5	019	A-1	Screw-1	304	K-1	Square-1
039	A-1	Screw-7	020	G-1	Screw-14	305	K-8	Square-8
041	A-1	Screw-7	021	F-3	Screw-12	306	K-1	Square-1
042	F-3	Screw-12	022	F-3	Screw-12	700	S-1	Screw-10
043	F-3	Screw-12	024	F-4	Screw-16	701	S-1	Screw-10
044	A-1	Screw-7	025	F-4	Screw-16	702	K-1	Square-1
045	F-1	Screw-5	026	F-4	Screw-16	37-700	A-1	Screw-1
046	A-1	Screw-7	027	F-4	Screw-16	800	A-1	Screw-1
047	A-1	Screw-7	028	F-4	Screw-16	3702-700	A-1	Screw-1
048	F-5	Screw-8	029	G-3	Snap-4	701	A-1	Screw-1
051	F-3	Screw-12	030	F-4	Screw-16	800	A-1	Screw-1
052	F-3	Screw-12	031	G-3	Snap-4	3703-700	A-1	Screw-1
053	F-3	Screw-12	032	G-3	Snap-4	702	A-1	Screw-1
056	A-1	Screw-7	033	F-4	Screw-16	703	A-1	Screw-1
320	B-1	One-piece-4	034	G-3	Snap-4	704	A-1	Screw-1
326	A-1	Screw-11	035	G-3	Snap-4	800	A-1	Screw-1
327	A-1	Screw-11	036	A-1	Screw-11	801	F-3	Screw-12
330	A-1	Screw-11	037	G-3	Snap-4	802	F-3	Screw-12
332	A-1	Screw-11	038	G-3	Snap-4	803	F-3	Screw-12
2518-007	B-1	One-piece-4	300	K-1	Square-1	804	F-3	Screw-12
008	T-1	One-piece-2	301	K-1	Square-1	4005-700	A-1	Screw-1
011	A-1	Screw-7	302	K-1	Square-1	600	A-1	Screw-1

Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.
4006-601	A-1	Screw-1	5126-801	A-1	Snap-3	5206-612	F-3	Screw-12
602	A-1	Screw-1	802	F-1	Snap-2	613	F-3	Screw-12
603	A-1	Screw-1	803	A-1	Snap-3	614	S-2	Screw-15
604	A-1	Screw-1	804	A-1	Snap-3	615	F-3	Screw-12
605	A-1	Screw-7	805	A-1	Snap-3	500	K-5	Square-5
606	A-1	Screw-7	806	A-1	Snap-3	501	K-3	Square-3
607	A-1	Screw-7	807	A-1	Snap-3	600	F-3	Screw-12
608	A-1	Screw-7	808	F-2	Screw-4	601	F-3	Screw-12
700	A-1	Screw-1	809	F-2	Screw-4	602	F-3	Screw-12
701	A-1	Screw-1	810	F-2	Screw-4	603	F-3	Screw-12
702	A-1	Screw-1	811	A-1	Snap-3	604	F-3	Screw-12
44-999	F-1	Screw-1	812	F-2	Screw-4	605	F-3	Screw-12
4402-800	F-1	Screw-6	813	F-2	Screw-4	606	G-2	Screw-14
4420-900	F-1	Screw-6	5139-600	A-1	Screw-1	700	F-3	Screw-12
999	F-1	Screw-6	700	A-1	Screw-7	701	F-3	Screw-12
45-700	F-3	Screw-12	701	A-1	Screw-7	702	G-4	Screw-18
701	F-3	Screw-12	702	A-1	Screw-7	703	G-4	Screw-18
800	A-1	Screw-7	703	A-1	Screw-7	704	G-4	Screw-18
801	A-1	Screw-7	704	A-1	Screw-7	705	G-4	Screw-18
4502-700	F-3	Screw-12	705	A-1	Screw-1	706	G-4	Screw-18
701	F-3	Screw-12	706	A-1	Screw-1	707	G-4	Screw-18
800	A-1	Screw-7	800	A-1	Screw-7	708	G-4	Screw-18
801	A-1	Screw-7	5146-500	S-1	Screw-10	709	G-4	Screw-18
4520-700	F-3	Screw-12	501	S-1	Screw-10	710	G-4	Screw-18
701	F-3	Screw-12	502	S-1	Screw-10	711	G-4	Screw-18
702	F-3	Screw-12	700	A-1	Screw-1	800	G-4	Screw-18
800	A-1	Screw-7	701	A-1	Screw-1	801	G-4	Screw-18
801	A-1	Screw-7	702	F-5	Screw-8	802	G-4	Screw-18
802	A-1	Screw-7	703	F-5	Screw-8	5245-600	B-2	One-piece-5
4522-700	F-3	Screw-12	704	F-3	Screw-12	601	T-1	One-piece-1
701	F-3	Screw-12	705	F-5	Screw-8	700	G-1	Screw-14
800	A-1	Screw-7	706	T-1	One-piece-1	5246-500	K-3	Square-3
801	A-1	Screw-7	708	F-3	Screw-12	501	K-3	Square-3
4580-700	F-2	Screw-2	709	A-1	Screw-7	502	K-3	Square-3
701	F-3	Screw-12	5206-500	K-3	Square-3	503	K-3	Square-3
702	F-3	Screw-12	501	K-3	Square-3	504	K-3	Square-3
5106-700	F-1	Screw-6	502	K-3	Square-3	600	T-1	One-piece-1
701	A-1	Screw-7	503	K-3	Square-3	601	T-1	One-piece-1
702	A-1	Screw-7	504	K-3	Square-3	602	T-1	One-piece-1
703	F-3	Screw-12	505	K-3	Square-3	603	F-3	Screw-12
704	A-1	Screw-7	506	K-3	Square-3	604	F-3	Screw-12
705	F-3	Screw-12	507	K-3	Square-3	605	F-3	Screw-12
801	F-1	Screw-6	508	K-3	Square-3	606	F-3	Screw-12
802	F-5	Screw-8	600	T-1	One-piece-1	607	F-3	Screw-12
803	F-1	Screw-6	601	A-1	Screw-7	700	G-1	Screw-14
900	A-1	Screw-7	602	F-3	Screw-12	5256-500	K-5	Square-5
5126-600	F-1	Snap-2	603	F-3	Screw-12	501	K-5	Square-5
601	F-2	Screw-2	605	F-3	Screw-12	600	F-3	Screw-12
603	F-2	Screw-9	606	F-3	Screw-12	601	F-3	Screw-12
700	A-1	Snap-3	607	F-3	Screw-12	800	G-4	Screw-18
701	F-1	Snap-2	608	F-3	Screw-12	801	G-4	Screw-18
702	F-5	Snap-2	609	F-3	Screw-12	5601-700	T-1	One-piece-1
703	F-5	Snap-2	610	F-3	Screw-12	701	T-1	One-piece-1
800	F-1	Snap-2	611	F-3	Screw-12	900	T-1	One-piece-1

Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.
5605-500	K-1	Square-1	5606-716	B-2	One-piece-5	5625-703	B-2	One-piece-5
501	S-1	Screw-10	717	T-1	One-piece-1	704	B-2	One-piece-5
702	T-1	One-piece-1	718	T-1	One-piece-1	7041	F-3	Screw-12
703	T-1	One-piece-1	719	B-2	One-piece-5	706	B-2	One-piece-5
704	T-1	One-piece-1	7191	F-6	Screw-17	707	T-1	One-piece-1
705	B-2	One-piece-5	720	G-1	Screw-14	708	B-2	One-piece-5
7051	F-6	Screw-17	721	T-1	One-piece-1	710	B-2	One-piece-5
5606-500	K-1	Square-1	722	T-1	One-piece-1	711	B-2	One-piece-5
501	S-1	Screw-10	723	F-3	Screw-12	7111	F-3	Screw-12
502	S-1	Screw-10	724	F-3	Screw-12	7112	T-1	One-piece-1
503	K-1	Square-1	725	F-3	Screw-12	7113	F-3	Screw-12
504	K-1	Square-1	726	F-3	Screw-12	712	B-2	One-piece-5
505	G-1	Screw-14	727	F-3	Screw-12	7121	F-3	Screw-12
506	K-1	Square-1	728	F-3	Screw-12	717	F-3	Screw-12
507	K-1	Square-1	729	F-3	Screw-12	800	G-3	Snap-4
508	K-1	Square-1	730	F-3	Screw-12	5626-501	K-1	Square-1
509	G-1	Screw-14	731	F-3	Screw-12	502	K-1	Square-1
510	S-1	Screw-10	732	F-3	Screw-12	504	K-1	Square-1
511	K-1	Square-1	733	F-4	Screw-16	505	K-1	Square-1
512	K-1	Square-1	734	F-4	Screw-16	506	K-1	Square-1
513	K-1	Square-1	735	F-4	Screw-16	507	K-1	Square-1
514	S-1	Screw-10	736	S-4	Screw-19	508	K-6	Square-6
515	K-1	Square-1	737	S-4	Screw-19	600	S-1	Screw-10
516	K-1	Square-1	800	T-1	One-piece-1	601	S-1	Screw-10
517	S-1	Screw-10	801	T-1	One-piece-1	602	S-1	Screw-10
518	K-7	Square-7	802	T-1	One-piece-1	700	B-2	One-piece-5
522	K-1	Square-1	803	G-3	Snap-4	701	B-2	One-piece-5
600	S-1	Screw-10	804	G-3	Snap-4	703	B-2	One-piece-5
601	S-1	Screw-10	805	G-3	Snap-4	704	B-2	One-piece-5
602	T-1	One-piece-1	806	G-3	Snap-4	7041	F-3	Screw-12
603	T-1	One-piece-1	807	G-3	Snap-4	706	B-2	One-piece-5
604	B-2	One-piece-5	809	G-3	Snap-4	707	T-1	One-piece-1
605	B-2	One-piece-5	810	G-2	Screw-14	708	B-2	One-piece-5
606	S-1	Screw-10	811	G-3	Snap-4	709	T-1	One-piece-1
607	A-1	Screw-1	812	G-3	Snap-4	710	B-2	One-piece-5
700	T-1	One-piece-1	813	G-3	Snap-4	711	B-2	One-piece-5
701	T-1	One-piece-1	900	T-1	One-piece-1	7111	F-3	Screw-12
702	T-1	One-piece-1	902	T-1	One-piece-1	7112	T-1	One-piece-1
703	T-1	One-piece-1	903	B-2	One-piece-5	7113	F-3	Screw-12
704	T-1	One-piece-1	904	B-2	One-piece-5	712	B-2	One-piece-5
705	T-1	One-piece-1	5619-700	F-3	Screw-12	7121	F-3	Screw-12
706	T-1	One-piece-1	701	A-1	Screw-1	713	A-1	Screw-1
707	B-2	One-piece-5	5621-600	S-1	Screw-10	714	F-3	Screw-12
7071	F-3	Screw-12	700	T-1	One-piece-1	715	F-3	Screw-12
7072	F-3	Screw-12	702	B-2	One-piece-5	716	F-3	Screw-12
708	B-2	One-piece-5	7021	F-3	Screw-12	717	F-3	Screw-12
709	T-1	One-piece-1	7022	F-3	Screw-12	718	F-3	Screw-12
710	T-1	One-piece-1	5625-501	K-1	Square-1	719	F-3	Screw-12
711	T-1	One-piece-1	504	K-1	Square-1	720	F-3	Screw-12
712	T-1	One-piece-1	506	K-1	Square-1	721	F-4	Screw-16
713	T-1	One-piece-1	600	S-1	Screw-10	722	F-3	Screw-12
714	B-2	One-piece-5	602	S-1	Screw-10	723	F-4	Screw-16
715	B-2	One-piece-5	700	B-2	One-piece-5	724	S-4	Screw-19
7151	F-3	Screw-12	701	B-2	One-piece-5	725	F-4	Screw-16

Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.
5626-726	S-4	Screw-19	6106-547	K-1	Square-1	6106-770	F-3	Screw-12
800	G-3	Snap-4	548	K-1	Square-1	771	F-4	Screw-16
801	G-3	Snap-4	549	K-1	Square-1	772	F-4	Screw-16
814	G-3	Snap-4	550	K-1	Square-1	773	F-4	Screw-16
815	G-3	Snap-4	552	K-1	Square-1	774	F-3	Screw-12
816	G-3	Snap-4	553	K-1	Square-1	775	A-1	Screw-7
820	G-3	Snap-4	554	S-1	Screw-10	776	A-1	Screw-7
5641-500	K-1	Square-1	555	S-1	Screw-10	800	A-1	Screw-1
700	A-1	Screw-1	556	K-1	Square-1	801	A-1	Screw-1
7005	A-1	Screw-1	600	A-1	Screw-1	802	A-1	Screw-1
5645-500	K-1	Square-1	603	A-1	Screw-1	803	T-1	One-piece-1
501	K-1	Square-1	604	F-2	Screw-2	804	A-1	Screw-1
700	A-1	Screw-1	605	F-2	Screw-2	806	A-1	Screw-1
7005	A-1	Screw-1	640	A-1	Screw-1	807	T-1	One-piece-1
701	F-3	Screw-12	641	F-2	Screw-2	808	A-1	Screw-1
800	G-1	Screw-14	643	F-2	Screw-2	810	A-1	Screw-1
5646-501	K-1	Square-1	644	F-2	Screw-2	812	F-2	Screw-4
700	A-1	Screw-1	700	A-1	Screw-1	813	A-1	Screw-1
7005	A-1	Screw-1	701	A-1	Screw-1	814	A-1	Screw-1
701	F-3	Screw-12	702	A-1	Screw-1	817	T-1	One-piece-1
702	F-3	Screw-12	703	A-1	Screw-1	818	F-2	Screw-4
703	F-3	Screw-12	704	A-1	Screw-1	820	F-2	Screw-2
704	A-1	Screw-7	705	A-1	Screw-1	822	F-2	Screw-2
800	G-1	Screw-14	706	A-1	Screw-1	823	F-2	Screw-2
57-800	F-1	Snap-2	710	F-2	Screw-2	840	A-1	Screw-1
801	F-1	Snap-2	711	F-2	Screw-2	841	F-2	Screw-4
5717-897	A-1	Snap-3	741	A-1	Screw-1	842	A-1	Screw-1
898	A-1	Snap-3	742	F-2	Screw-2	843	A-1	Screw-1
899	A-1	Snap-3	743	A-1	Screw-1	844	F-2	Screw-4
5719-898	A-1	Snap-3	744	F-2	Screw-2	845	F-2	Screw-4
899	A-1	Snap-3	746	F-2	Screw-2	846	A-1	Screw-1
5722-901	F-1	Screw-5	747	F-2	Screw-2	847	A-1	Screw-1
999	F-1	Screw-5	748	F-2	Screw-2	848	A-1	Screw-1
5740-001	F-1	Screw-5	749	F-2	Screw-2	849	T-1	One-piece-1
800	F-1	Screw-5	750	A-1	Screw-1	850	T-1	One-piece-1
6100-800	A-1	Snap-3	751	F-2	Screw-2	851	F-2	Screw-9
801	F-1	Screw-5	752	F-2	Screw-2	852	F-2	Screw-9
6102-800	A-1	Snap-3	753	T-1	One-piece-1	853	A-1	Screw-1
801	F-1	Screw-5	754	T-1	One-piece-1	856	F-2	Screw-2
6105-600	A-1	Screw-1	755	F-3	Screw-12	857	A-1	Screw-1
800	F-2	Screw-4	756	F-3	Screw-12	858	A-1	Screw-1
806	A-1	Screw-1	757	F-3	Screw-12	859	A-1	Screw-1
808	A-1	Screw-1	758	F-3	Screw-12	860	A-1	Screw-1
809	A-1	Screw-1	759	F-3	Screw-12	861	A-1	Screw-1
810	T-1	One-piece-1	760	F-3	Screw-12	862	T-1	One-piece-1
811	F-2	Screw-4	761	F-3	Screw-12	863	G-1	Screw-14
6106-500	K-1	Square-1	762	F-3	Screw-12	864	G-1	Screw-14
540	K-1	Square-1	763	F-3	Screw-12	866	F-4	Screw-16
541	K-1	Square-1	764	F-3	Screw-12	867	F-4	Screw-16
542	S-1	Screw-10	765	F-3	Screw-12	868	F-4	Screw-16
543	K-1	Square-1	766	F-2	Screw-2	870	F-4	Screw-16
544	K-1	Square-1	767	F-2	Screw-2	871	A-1	Screw-7
545	S-1	Screw-10	768	F-2	Screw-2	872	A-1	Screw-7
546	S-1	Screw-10	769	F-3	Screw-12	873	A-1	Screw-7

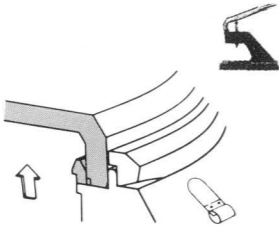
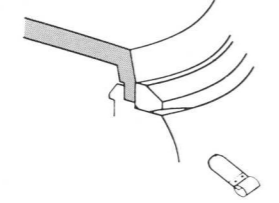
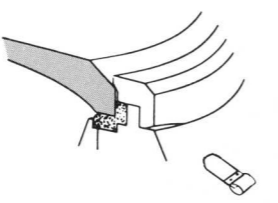
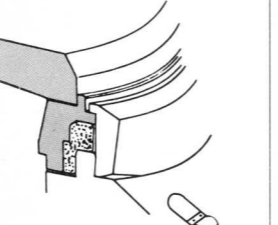
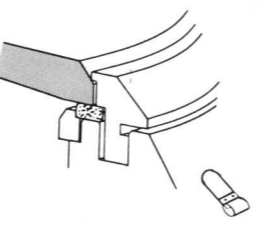
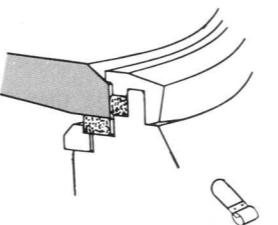
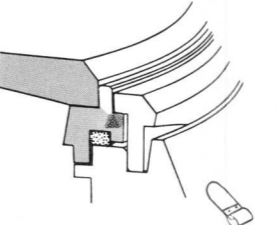
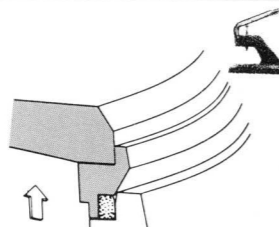
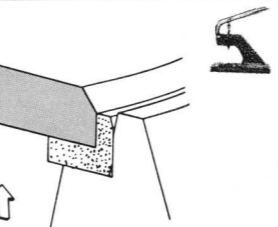
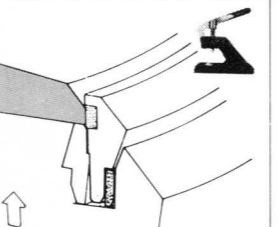
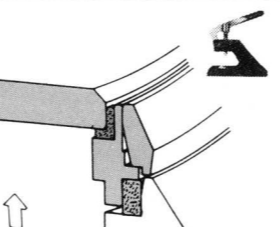
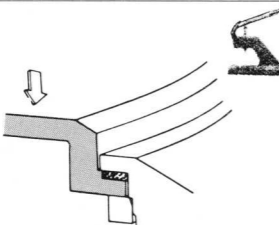
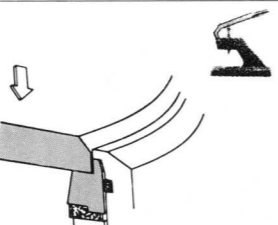
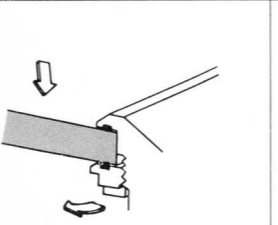
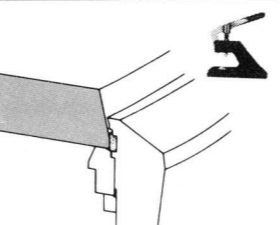
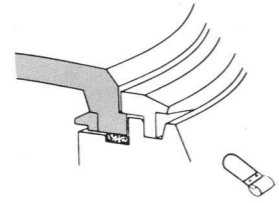
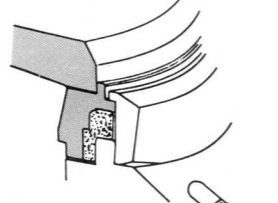
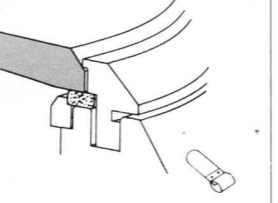
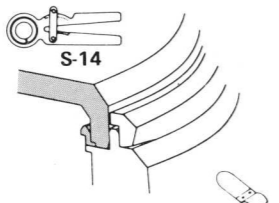
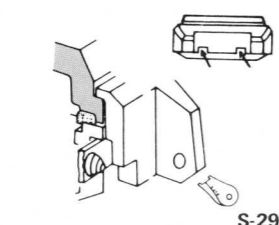
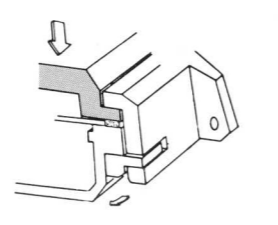
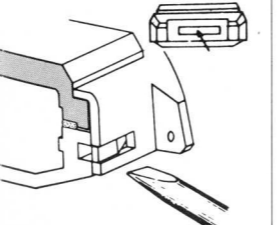
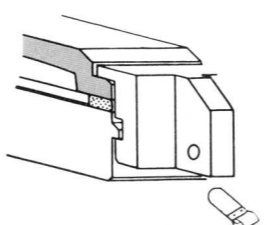
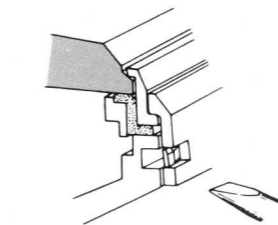
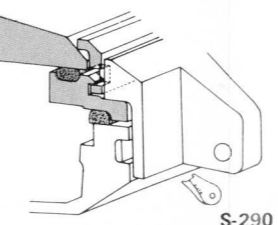
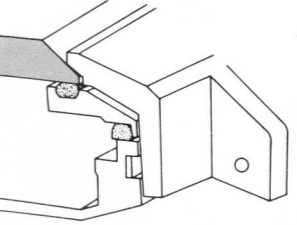
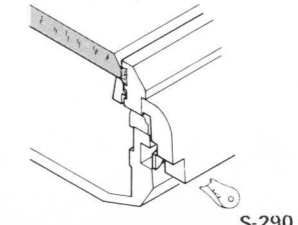
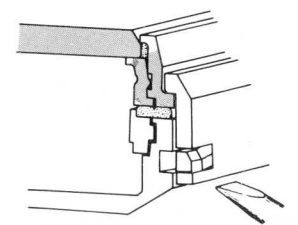
Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.
6106-874	F-4	Screw-16	6119-713	A-1	Screw-1	6119-854	F-2	Screw-2
875	F-4	Screw-16	714	A-1	Screw-1	855	G-2	Screw-14
876	F-4	Screw-16	715	A-1	Screw-1	856	F-4	Screw-16
900	T-1	One-piece-1	716	F-2	Screw-2	857	A-1	Screw-7
901	T-1	One-piece-1	717	F-2	Screw-4	858	F-4	Screw-16
903	T-1	One-piece-1	718	F-2	Screw-2	859	A-1	Screw-7
904	T-1	One-piece-1	740	A-1	Screw-1	860	A-1	Screw-7
905	T-1	One-piece-1	741	T-1	One-piece-1	861	A-1	Screw-7
6109-800	A-1	Screw-7	742	T-1	One-piece-1	862	F-4	Screw-16
801	A-1	Screw-7	743	F-3	Screw-12	863	F-4	Screw-16
802	A-1	Screw-7	745	A-1	Screw-1	941	T-1	One-piece-1
6117-601	A-1	Screw-3	746	F-3	Screw-12	942	T-1	One-piece-1
640	A-1	Screw-3	747	F-3	Screw-12	6138-001	F-2	Screw-2
641	A-1	Screw-3	748	A-1	Screw-1	002	F-2	Screw-2
642	A-1	Screw-3	750	A-1	Screw-7	003	F-2	Screw-2
800	A-1	Screw-1	751	A-1	Screw-7	300	G-1	Screw-14
6118-700	A-1	Screw-7	752	A-1	Screw-7	004	F-2	Screw-2
701	A-1	Screw-7	753	F-2	Screw-2	3002	F-3	Screw-12
800	A-1	Screw-7	754	F-4	Screw-16	3005	F-3	Screw-12
801	A-1	Screw-7	802	A-1	Snap-3	700	A-1	Screw-1
802	F-4	Screw-16	803	A-1	Snap-3	800	G-1	Screw-14
804	A-1	Screw-7	804	A-1	Snap-3	801	F-2	Screw-2
6119-500	K-1	Square-1	807	A-1	Screw-1	802	A-1	Screw-2
540	S-1	Screw-10	808	A-1	Screw-1	803	F-4	Screw-16
541	S-1	Screw-10	809	A-1	Screw-1	6139-600	F-2	Screw-2
542	S-1	Screw-10	810	A-1	Snap-3	601	F-2	Screw-2
543	S-1	Screw-10	812	F-2	Screw-4	602	A-1	Screw-3
544	K-1	Square-1	813	F-2	Screw-4	603	F-2	Screw-2
545	S-1	Screw-10	814	F-2	Screw-4	604	F-2	Screw-2
546	K-1	Square-1	816	A-1	Screw-1	700	F-2	Screw-2
547	K-1	Square-1	819	T-1	One-piece-1	701	F-2	Screw-2
548	K-1	Square-1	820	A-1	Screw-1	702	F-2	Screw-2
549	S-1	Screw-10	822	F-2	Screw-2	703	G-1	Screw-14
550	S-1	Screw-10	823	A-1	Snap-3	705	F-3	Screw-12
551	S-1	Screw-10	824	F-2	Screw-2	706	F-2	Screw-2
552	K-1	Square-1	825	A-1	Snap-3	707	F-3	Screw-12
553	K-1	Square-1	827	F-2	Screw-2	708	A-1	Screw-1
600	A-1	Screw-1	828	A-1	Screw-1	710	F-4	Screw-16
601	A-1	Snap-3	829	A-1	Screw-1	800	F-2	Screw-2
602	F-2	Screw-2	830	F-2	Screw-4	801	G-2	Screw-14
603	A-1	Snap-3	831	F-2	Screw-2	802	A-1	Screw-1
604	A-1	Snap-3	840	F-2	Screw-2	803	A-1	Screw-1
605	F-2	Screw-9	841	A-1	Screw-1	804	F-4	Screw-16
640	F-2	Screw-2	843	A-1	Screw-1	805	F-4	Screw-16
641	A-1	Screw-1	844	A-1	Screw-1	6145-800	A-1	Screw-1
700	A-1	Snap-3	845	F-2	Screw-2	803	A-1	Screw-1
701	A-1	Snap-3	846	A-1	Screw-1	805	F-3	Screw-12
702	A-1	Snap-3	847	A-1	Screw-1	6146-800	A-1	Screw-1
703	A-1	Snap-3	848	A-1	Screw-1	803	A-1	Screw-1
704	A-1	Snap-3	849	A-1	Screw-1	804	A-1	Screw-1
708	A-1	Screw-1	850	T-1	One-piece-1	805	F-3	Screw-12
709	A-1	Screw-1	851	A-1	Screw-1	6155-800	G-1	Screw-14
710	A-1	Screw-1	852	T-1	One-piece-1	6156-800	G-1	Screw-14
712	A-1	Screw-1	853	A-1	Screw-1	801	G-1	Screw-14

Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.
6156-802	A-1	Screw-1	6220-701	F-1	Screw-6	6600-708	F-1	Snap-2
803	F-4	Screw-16	707	T-1	One-piece-1	709	A-1	Snap-3
804	G-3	Snap-4	708	T-1	One-piece-1	710	F-1	Screw-5
6201-700	F-1	Screw-5	710	T-1	One-piece-1	711	A-1	Snap-3
701	F-1	Screw-5	711	T-1	One-piece-1	797	F-1	Screw-5
702	F-1	Screw-5	714	T-1	One-piece-1	799	F-1	Screw-5
893	F-1	Snap-2	801	F-1	Snap-2	800	F-1	Screw-5
894	F-1	Screw-5	897	F-1	Screw-5	801	F-1	Screw-5
895	F-1	Snap-2	898	F-1	Screw-5	802	A-1	Screw-7
896	F-1	Screw-5	899	F-1	Screw-5	803	F-1	Screw-5
6205-700	F-1	Screw-5	900	F-1	Snap-2	804	A-1	Screw-7
701	F-1	Screw-5	997	F-1	Snap-2	805	A-1	Screw-7
798	F-1	Screw-5	998	F-1	Screw-5	807	A-1	Screw-7
800	F-1	Screw-6	999	F-1	Snap-2	898	F-1	Screw-5
892	F-1	Screw-5	6222-700	F-1	Screw-6	996	F-1	Snap-2
893	F-1	Screw-5	702	T-1	One-piece-1	998	F-1	Snap-2
894	F-1	Screw-5	703	T-1	One-piece-1	6601-700	F-1	Snap-2
895	F-1	Screw-5	706	T-1	One-piece-1	701	F-1	Screw-6
896	F-1	Screw-5	800	F-1	Snap-2	799	F-1	Snap-2
897	F-1	Screw-5	896	F-1	Screw-5	800	F-1	Screw-6
996	F-1	Screw-5	897	F-1	Screw-5	801	F-1	Screw-6
6206-800	F-1	Screw-5	899	F-1	Screw-5	893	F-1	Snap-2
801	F-1	Screw-5	900	F-1	Snap-2	894	F-1	Screw-5
802	F-1	Screw-6	999	F-1	Screw-5	896	F-1	Snap-2
803	F-1	Screw-5	6245-900	A-1	Screw-7	999	F-1	Screw-5
804	F-1	Screw-6	6246-900	A-1	Screw-7	6602-700	F-1	Screw-6
805	F-1	Screw-6	901	A-1	Screw-7	702	F-1	Screw-5
806	F-1	Screw-6	6306-800	G-3	Screw-20	703	F-1	Snap-2
807	A-1	Screw-7	801	G-3	Screw-20	704	F-1	Screw-5
808	A-1	Screw-7	6308-500	S-1	Screw-10	800	F-1	Screw-5
809	A-1	Screw-7	700	A-1	Screw-7	801	F-1	Screw-5
810	A-1	Screw-7	800	A-1	Screw-7	802	F-1	Screw-5
811	A-1	Screw-7	801	A-1	Screw-7	803	A-1	Screw-7
812	F-1	Screw-6	802	A-1	Screw-7	804	A-1	Screw-7
813	A-1	Screw-7	803	F-4	Screw-14	805	A-1	Screw-7
814	F-1	Screw-5	6309-500	K-1	Square-1	807	A-1	Screw-7
815	F-1	Screw-6	501	S-1	Screw-10	899	F-1	Screw-5
816	A-1	Screw-7	502	S-1	Screw-10	998	F-1	Snap-2
817	A-1	Screw-7	503	K-1	Square-1	6619-700	F-1	Screw-6
818	F-1	Screw-6	800	A-1	Screw-7	701	F-1	Snap-2
819	A-1	Screw-7	801	A-1	Screw-7	702	F-1	Snap-2
898	F-1	Screw-5	802	A-1	Screw-7	703	F-1	Snap-2
899	F-1	Snap-2	803	A-1	Screw-7	704	F-1	Screw-6
900	F-1	Screw-5	804	A-1	Screw-7	705	F-1	Screw-6
6216-900	F-1	Screw-6	805	A-1	Screw-7	706	F-1	Snap-2
901	A-1	Screw-7	806	F-4	Screw-16	707	A-1	Snap-3
6217-700	F-1	Snap-2	807	G-2	Screw-14	797	F-1	Snap-2
701	F-1	Screw-6	808	A-1	Screw-7	798	F-1	Snap-2
800	A-1	Screw-7	6600-600	A-1	Screw-7	799	F-1	Snap-2
6218-800	F-5	Screw-8	700	F-1	Screw-5	800	F-1	Snap-2
801	F-1	Screw-6	702	F-1	Screw-6	801	F-1	Screw-6
895	A-1	Screw-1	704	F-1	Screw-5	802	F-1	Screw-6
897	A-1	Screw-1	706	F-1	Snap-2	803	F-1	Snap-2
6220-700	F-1	Screw-6	707	A-1	Screw-7	804	F-1	Snap-2

Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.
6619-805	F-1	Snap-2	7005-711	A-1	Screw-7	7006-803	A-1	Screw-11
806	F-1	Snap-2	713	A-1	Screw-7	804	A-1	Screw-7
807	F-1	Screw-6	800	A-1	Snap-3	805	A-1	Screw-7
808	F-1	Screw-6	801	A-1	Snap-3	806	A-1	Screw-7
809	A-1	Snap-3	802	A-1	Screw-7	807	A-1	Screw-7
810	A-1	Snap-3	803	A-1	Screw-7	808	A-1	Screw-7
811	F-1	Snap-2	804	A-1	Screw-7	809	A-1	Screw-7
812	F-1	Snap-2	805	A-1	Screw-11	810	A-1	Snap-3
813	F-1	Snap-2	806	A-1	Screw-11	811	A-1	Screw-7
814	F-1	Snap-2	807	A-1	Screw-11	812	A-1	Screw-7
815	F-1	Snap-2	808	A-1	Screw-11	813	A-1	Screw-7
818	F-1	Snap-2	809	A-1	Screw-11	7009-500	S-1	Screw-10
819	F-1	Snap-2	814	A-1	Screw-11	501	S-1	Screw-10
823	F-1	Screw-6	815	A-1	Screw-7	502	S-1	Screw-10
825	A-1	Snap-3	816	A-1	Screw-7	700	A-1	Screw-7
826	F-1	Snap-2	817	A-1	Screw-7	701	F-4	Screw-16
827	F-1	Snap-2	818	F-1	Screw-6	800	A-1	Screw-7
828	F-1	Snap-2	819	A-1	Screw-7	801	A-1	Screw-7
829	A-1	Snap-3	820	A-1	Screw-7	802	A-1	Screw-7
830	A-1	Screw-7	821	A-1	Screw-7	803	A-1	Screw-7
831	F-1	Screw-6	7006-500	K-3	Square-3	804	A-1	Screw-7
894	F-1	Snap-2	501	K-3	Square-3	805	A-1	Screw-7
897	F-1	Snap-2	502	K-3	Square-3	806	A-1	Screw-7
898	F-1	Snap-2	504	S-1	Screw-10	807	A-1	Screw-7
900	A-1	Snap-3	505	S-1	Screw-10	808	F-4	Screw-16
901	F-1	Snap-2	506	S-1	Screw-10	809	A-1	Screw-7
903	A-1	Snap-3	507	S-1	Screw-10	810	A-1	Screw-7
904	A-1	Snap-3	600	A-1	Screw-1	811	A-1	Screw-7
905	A-1	Screw-7	601	A-1	Screw-7	7015-600	F-4	Screw-16
906	A-1	Screw-7	602	A-1	Screw-1	601	F-4	Screw-16
907	F-1	Snap-2	603	A-1	Screw-3	700	F-4	Screw-16
908	F-1	Snap-2	604	A-1	Screw-1	701	F-2	Screw-2
909	F-1	Screw-6	700	A-1	Screw-7	702	F-5	Screw-8
997	F-1	Screw-6	701	A-1	Screw-7	800	F-3	Screw-12
999	F-1	Screw-6	702	A-1	Screw-7	7016-500	K-3	Square-3
7001-700	A-1	Screw-7	703	A-1	Screw-7	501	K-3	Square-3
800	A-1	Screw-7	704	A-1	Screw-7	502	K-3	Square-3
7005-500	K-2	Square-2	707	A-1	Screw-7	800	A-1	Screw-7
501	S-2	Screw-15	708	A-1	Screw-7	7017-600	F-2	Screw-2
502	S-2	Screw-15	709	A-1	Screw-7	601	F-2	Screw-2
600	A-1	Screw-1	710	A-1	Screw-7	602	F-2	Screw-2
601	A-1	Screw-1	711	A-1	Screw-7	603	F-2	Screw-2
602	A-1	Screw-1	712	A-1	Screw-7	604	F-2	Screw-2
700	A-1	Snap-3	713	S-2	Screw-15	605	F-2	Screw-2
701	A-1	Screw-7	714	A-1	Screw-7	700	F-2	Screw-15
702	A-1	Screw-7	715	F-4	Screw-16	800	F-2	Screw-4
703	F-5	Snap-2	716	F-4	Screw-16	7018-500	K-3	Square-3
704	F-5	Screw-7	718	A-1	Screw-7	600	F-4	Screw-16
705	A-1	Screw-7	719	A-1	Screw-7	700	F-3	Screw-12
706	A-1	Screw-7	720	F-3	Screw-12	701	F-3	Screw-12
707	A-1	Screw-7	721	F-4	Screw-16	800	A-1	Screw-7
708	A-1	Screw-7	722	F-4	Screw-16	7019-500	K-3	Square-3
709	A-1	Screw-7	800	A-1	Screw-7	501	S-2	Screw-15
710	F-4	Screw-16	802	A-1	Screw-7	504	S-2	Screw-15

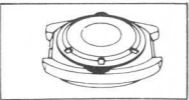
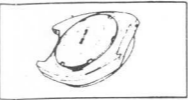
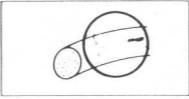
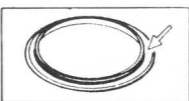
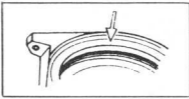
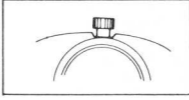



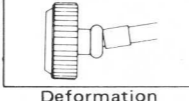
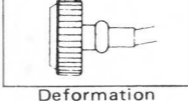
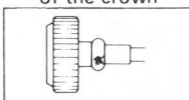
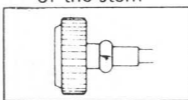
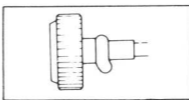
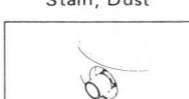
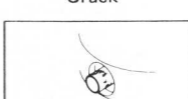
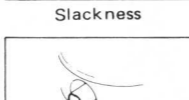
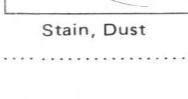
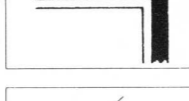


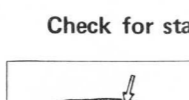
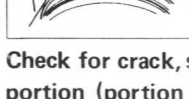
Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.	Case No.	Tech. Guide Category/ Type No.	Index No.
7019-505	F-4	Screw-16	7019-805	A-1	Screw-7	7625-810	F-1	Screw-5
507	K-3	Square-3	806	A-1	Screw-7	811	F-1	Screw-5
508	F-4	Screw-16	807	A-1	Screw-7	812	F-1	Screw-5
509	K-3	Square-3	808	A-1	Screw-7	813	F-1	Snap-2
600	F-2	Screw-2	809	A-1	Screw-7	814	F-1	Snap-2
601	F-2	Screw-2	7025-500	S-1	Screw-10	820	F-1	Screw-5
602	F-2	Screw-2	501	S-1	Screw-10	823	F-1	Screw-5
603	F-2	Screw-2	800	A-1	Screw-7	824	F-1	Screw-5
604	F-2	Screw-2	801	A-1	Screw-7	825	A-1	Screw-7
605	F-4	Screw-16	802	A-1	Screw-7	826	F-1	Snap-2
607	A-1	Screw-7	803	A-1	Screw-7	827	F-1	Screw-5
700	A-1	Snap-3	804	A-1	Screw-7	828	F-1	Screw-5
701	F-2	Snap-2	805	A-1	Screw-7	829	F-1	Snap-2
702	F-2	Snap-2	806	A-1	Screw-7	830	F-1	Screw-5
703	F-2	Snap-2	7039-702	F-4	Screw-16	893	F-1	Snap-2
704	F-2	Snap-2	7605-800	F-1	Screw-5	896	F-1	Snap-2
705	F-2	Snap-2	801	F-1	Screw-5	900	F-1	Screw-5
706	F-4	Snap-2	7606-700	F-1	Snap-2	901	F-1	Screw-5
707	F-4	Snap-2	796	F-1	Snap-2	902	A-1	Screw-7
708	A-1	Snap-3	797	F-1	Snap-2	903	A-1	Screw-7
710	A-1	Screw-7	798	F-1	Snap-2	8305-100	F-1	Screw-6
711	A-1	Screw-7	799	F-1	Snap-2	101	F-1	Screw-6
712	A-1	Screw-7	7619-700	F-1	Snap-2	801	A-1	Screw-7
713	A-1	Screw-7	701	F-1	Snap-2	802	A-1	Screw-7
715	F-3	Screw-12	702	F-1	Snap-2	803	T-1	One-piece-1
716	F-3	Screw-12	703	F-1	Snap-2	804	T-1	One-piece-1
717	S-2	Screw-15	704	F-1	Snap-2	805	T-1	One-piece-1
718	S-2	Screw-15	705	F-1	Snap-2	806	T-1	One-piece-1
719	A-1	Screw-7	706	F-1	Snap-2	900	F-1	Screw-6
720	A-1	Screw-7	707	F-1	Snap-2	8306-100	F-1	Screw-6
721	F-3	Screw-12	801	F-1	Snap-2	700	A-1	Screw-7
722	F-3	Screw-12	898	F-1	Snap-2	800	F-1	Screw-6
723	F-3	Screw-12	900	F-1	Snap-2	802	T-1	One-piece-1
724	F-3	Screw-12	901	F-1	Snap-2	807	T-1	One-piece-1
725	F-3	Screw-12	902	F-1	Snap-2	809	F-5	Screw-8
726	F-3	Screw-12	903	F-1	Snap-2	810	F-1	Screw-6
727	F-3	Screw-12	904	A-1	Snap-3	900	F-1	Screw-6
728	F-3	Screw-12	906	A-1	Snap-3	903	F-5	Screw-8
729	F-3	Screw-12	907	A-1	Snap-3	905	F-5	Screw-8
730	F-3	Screw-12	7625-700	F-1	Screw-5	8325-800	F-1	Screw-6
731	F-4	Screw-16	701	F-1	Screw-5	8346-700	A-1	Screw-7
732	F-4	Screw-16	703	F-1	Screw-5	701	A-1	Screw-7
733	F-4	Screw-16	704	A-1	Screw-7	800	F-1	Screw-6
734	F-4	Screw-16	705	A-1	Screw-7	802	T-1	One-piece-1
735	F-4	Screw-16	706	A-1	Screw-7	803	F-1	Screw-6
736	F-4	Screw-16	800	F-1	Screw-5	804	F-5	Screw-8
737	F-4	Screw-16	801	F-1	Screw-5	900	F-5	Screw-8
738	A-1	Screw-7	802	F-1	Screw-5	901	F-5	Screw-8
739	A-1	Screw-7	803	F-1	Screw-5	902	F-1	Screw-6
800	A-1	Snap-3	804	F-1	Screw-5	88 -508	S-3	Screw-13
801	A-1	Snap-3	805	F-1	Snap-2	509	S-3	Screw-13
802	F-2	Screw-4	806	F-1	Screw-5	510	S-3	Screw-13
803	F-2	Screw-4	807	F-1	Snap-2			
804	A-1	Snap-3	809	F-1	Snap-2			

Glass & bezel construction

Case back type	Category	How to open the glass portion	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 5	TYPE 6	TYPE 7	TYPE 8	TYPE 9
Snap, Screw, Screw ring	A	Remove glass by pushing up from the inside.									
	F	Remove bezel to remove glass.									
	G	Remove glass by pushing up from the inside.									
	S	Remove glass by pushing down from the top.									
One-piece	B	Remove bezel to remove glass. Movement is only removed from top of case.									
	T	Remove bezel. Then use one-piece case opener to remove glass. Movement is only removed from top of case.									
Square	K	Remove glass by opening case.									

Remarks: The shadowed parts in the above diagram show the supplying unit for servicing parts of the glass and glass with combined parts. Since more than two shadowed parts make up one combined part, it is not necessary to disassemble them for repair servicing and they are supplied as a single unit.

Case repair check points

CHECK POINTS		IMPERFECTION	TYPE OF REPAIR NECESSARY	
① Case back portion	• Check for looseness of the case back; and protrusion of gasket		reassembling	<p>How to clean the gasket</p> <p>The gasket should be cleaned with alcohol <u>only</u>.</p> <p>Do not use</p> <p>benzine thinner trichlorethylen</p> <p>After cleaning the gasket with alcohol, silicon grease 500,000 c.s. should be lightly spread on the surface of the gasket. (Be careful, there are some exceptions where silicon grease should be avoided.)</p>
	• Check for crack in gasket			
	• Check for crack in case back	 Stain, Dust	cleaning or replacement	
	• Check for crack in caseband	 Check for crack, stain, dust and rust at the arrow marked part (portion in contact with gasket)	cleaning or replacement	
		 Check for crack, stain, dust and rust at the arrow marked part (portion in contact with gasket)	cleaning or replacement	
② Crown portion	• Check crown position	 Protrudes excessively	shortening the stem	<p>Silicon grease should not be applied to the following gaskets:</p> <ul style="list-style-type: none"><li>• Gasket under glass for square type water-resistant case </li><li>• Gasket for micro-adjustor screw </li></ul> <p>When tightening the case back, glass and micro-adjustor screw, be careful:</p> <ul style="list-style-type: none"><li>• Not to twist the gasket.</li><li>• Make sure all parts are free from dust and lint.</li></ul> <p>For further detailed information, please refer to the technical guide compiled by types of the case structure.</p>
	• Check for deformation of crown and stem	 Not evenly fixed, slanting	reassembling	
	• Check for crack in gasket	 Deformation of the crown	adjustment or replacement	
		 Deformation of the stem		
	• Check the stem pipe	 Stain, Dust	cleaning or replacement	
		 Crack		
		 Deformation		
		 Slackness	replacement of the case	
		 Crack		
		 Deformation	adjustment or replacement of the case, cleaning	
③ Glass portion	• Check for slackness and tightness of the bezel	 Stain, Dust	reassembling or replacement	
	• Check the gasket position	 Deformation	reassembling (when/if there is a crack, replacement is required)	
	• Check the glass	 Crack, Scratch, Stain	replacement of the glass, wipe off dust	
	• Check for crack in gasket	 Insufficient contact		
	• Check the caseband	 Check for stain, crack, dust and deformation	cleaning or replacement	
		 Check for crack, stain and dust at the arrow marked portion (portion in contact with glass and gasket)	cleaning or replacement of the case	

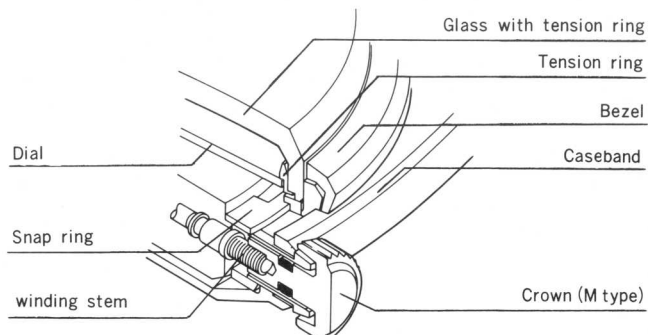
When repairing a SEIKO watch, use genuine SEIKO parts.

## 1 . Construction

Glass: Tension ring type

Case back: One-piece type

Crown: M type



## 2 . Disassembling and assembling

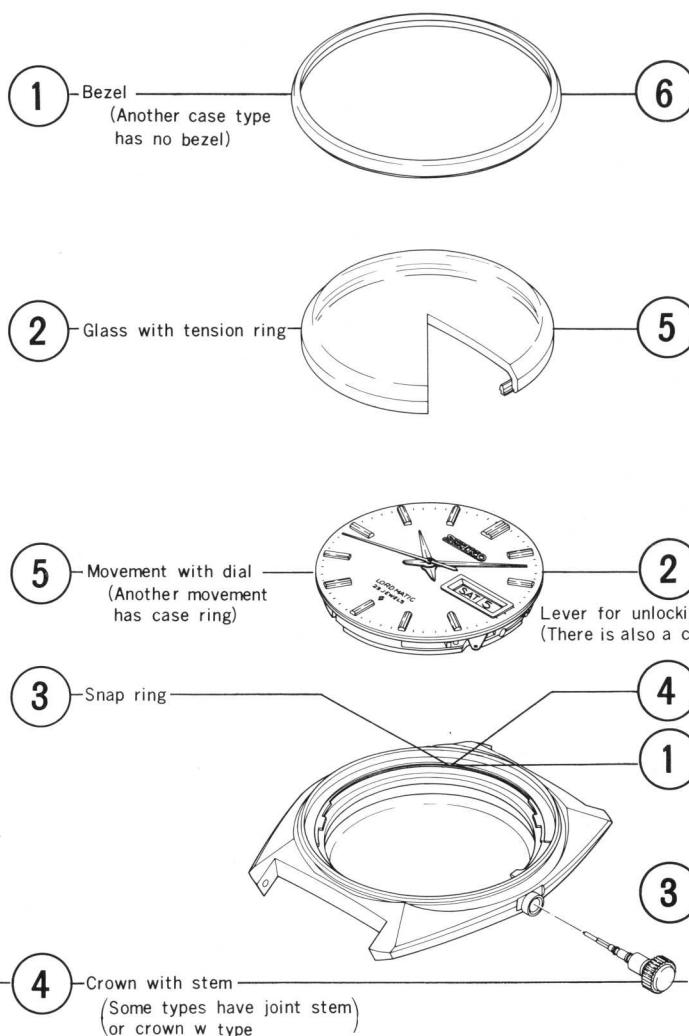
### Disassembling procedures

Remove glass by using SEIKO one-piece case opener (S-12 or S-14).

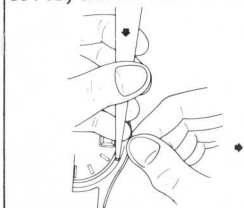
Take out the movement after turning over the watch.

Note) Previously spread out a soft cloth where the movement will drop. It will prove convenient to remember the position of the snap ring projection when reassembling the movement.

Note) Do not injure the case. Refer to next page for operating the snap ring.



Push on the unlocking lever, then remove crown.



### Assembling procedures

Insert the glass with S-12 or S-14 or Waterproof case tightening tool. Note) Remove all dirt on the contacting portion between glass and case; replace scratched parts with new ones; confirm setting of glass by depressing glass circumference with a finger tip after inserting the glass.

Turn snap ring the reverse direction of Disassembling-3. (With this operation, the movement is secured.)

Note) Do not scratch the case.

Refer to the next page for operating the snap ring.

Place projection of the snap ring in the same position as it was.

Push in the winding stem while depressing the lever for unlocking stem (on another type, simply push in the winding stem without depressing the lever for unlocking stem). Apply SEIKO's silicon grease (500,000 c.s.) to gasket.

### 3. Action of snap ring

On the snap ring type, two projections on the snap ring press against the plate or case ring to secure the movement (Fig. 1). Consequently, when turning the snap ring and when two projections fall into respective notches on the plate, the movement can be taken out (at that moment, rotation of the snap ring becomes light). (Fig. 2)

Note: Do not detach the snap ring from caseband.

### 4. Operation method of snap ring

At present, SEIKO has four case types, shown as A through D in the following table. When removing the glass, carefully observe the case type to determine in which category it belongs.

When turning the snap ring, the trick of easily turning the snap ring is in applying tweezers at the correct position. Always push the snap ring at its tail portion (rear) when turning (Fig. 3).

Note) When inserting the movement, set the projection of snap ring at the C position shown in the "When securing the movement" portion of the following chart; then insert the movement.

Fig. 1

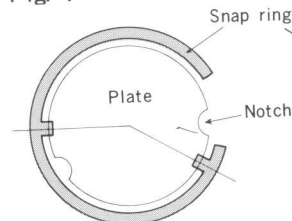
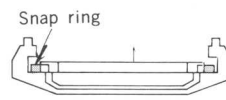
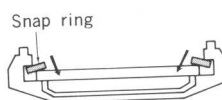
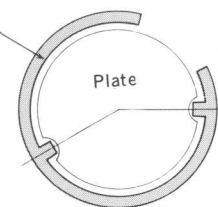


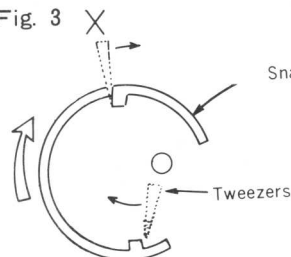
Fig. 2



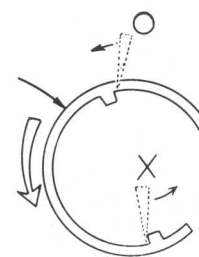
Movement in secured position (projections of snap ring press the plate)

Movement in removable state (projections of the snap ring fall into notches of the plate)

Fig. 3



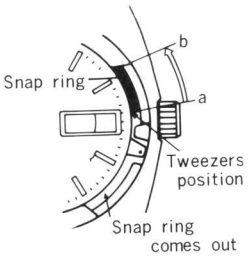
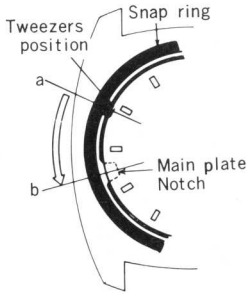
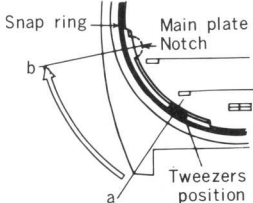
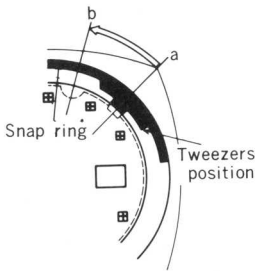
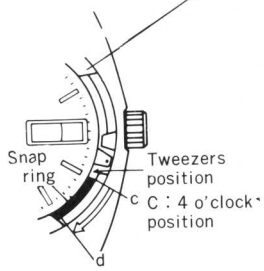
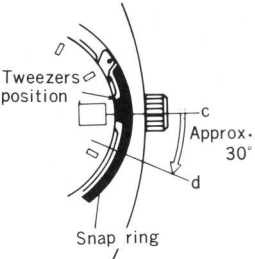
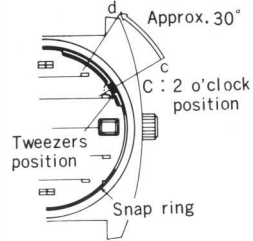
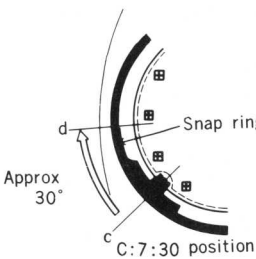
When turning to the right



When turning to the left

These two diagrams show correct and incorrect positions of tweezers when turning the snap ring.

## Illustration of operation method of snap ring

	A	B	C	D
When taking out the movement	<p>Turn from a to b by using tweezers</p> 	<p>Use tweezers to turn the snap ring from a to b on the plate Stop turning when revolution becomes light</p> 	<p>Use tweezers to turn the snap ring from a to b</p> 	<p>Use tweezers to turn the snap ring from a to b Stop turning when revolution becomes light</p> 
When securing the movement	<p>Use tweezers to turn the snap ring from c to d</p> <p>When turning the snap ring up to d, the other end of the snap ring will appear here</p> 	<p>Use tweezers to turn the snap ring from c to d approximately 30°</p> 	<p>Use tweezers to turn the snap ring from c to d approximately 30°</p> <p>Note) Do not over-turn (stop turning at around 1 o'clock)</p> 	<p>Use tweezers to turn the snap ring approximately 30°</p> 

# One-piece-2

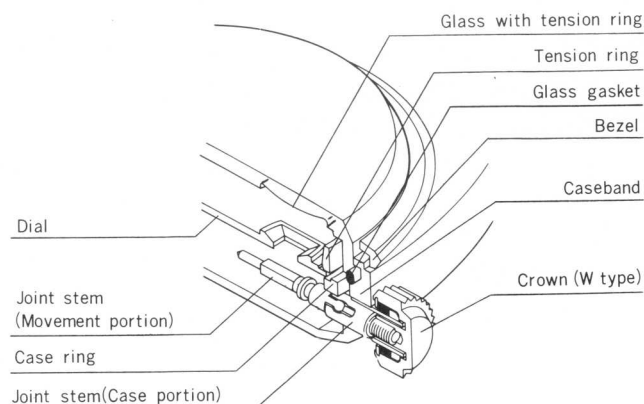
## Casing—continued

### 1 . Construction

Glass: Tension ring type

Case back: One-piece type

Crown: W type



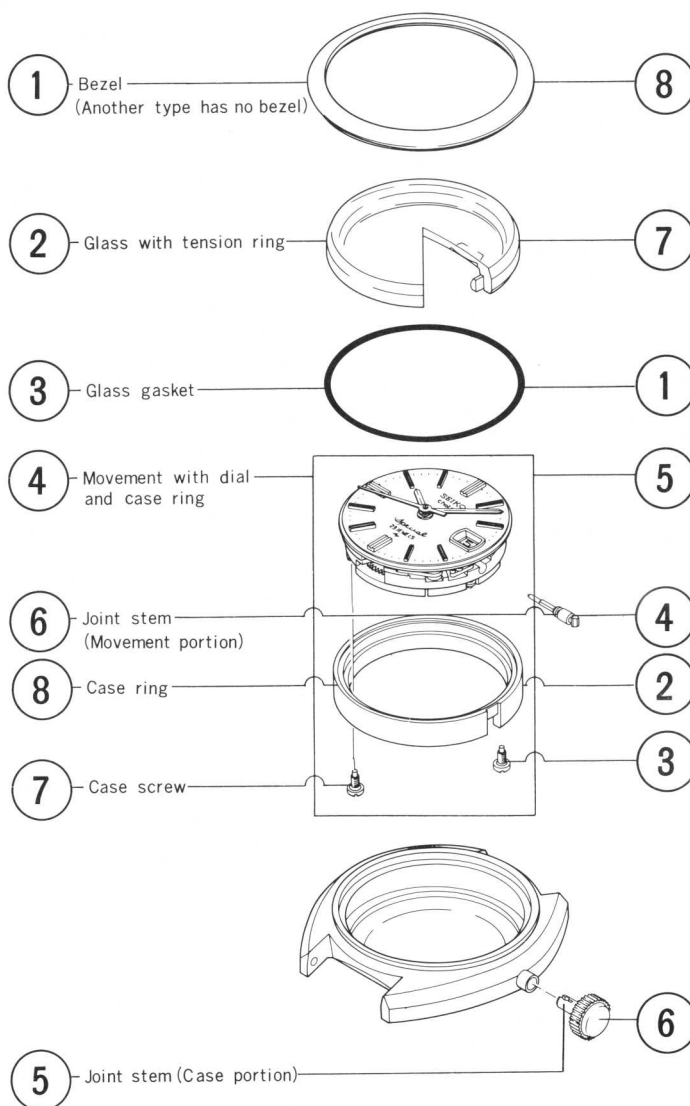
### 2 . Disassembling and assembling

#### Disassembling procedures

Remove glass by using SEIKO one-piece case opener (S-12 or S-14). Remove the glass after carefully reading the instruction Manual for SEIKO one-piece case opener.

Turn over the watch and turn crown counterclockwise then slowly take it out.

Note) Previously spread a soft cloth where the movement will drop.



#### Assembling procedures

Insert the glass with S-12, S-14 or Waterproof case tightening tool.

Note) Remove all dirt on the contacting portion between glass and case; replace scratched parts with new ones; confirm setting of glass circumference with a finger tip after inserting the glass.

Apply silicon grease 500,000 c.s. to glass gasket.

Another case ring secures the movement by deforming the 3 o'clock side groove with a driver.

Insert crown (with joint stem) into stem tube, then turn crown counterclockwise and push in crown after confirming an audible "click".

Apply silicon grease 500,000 c.s. to crown gasket.

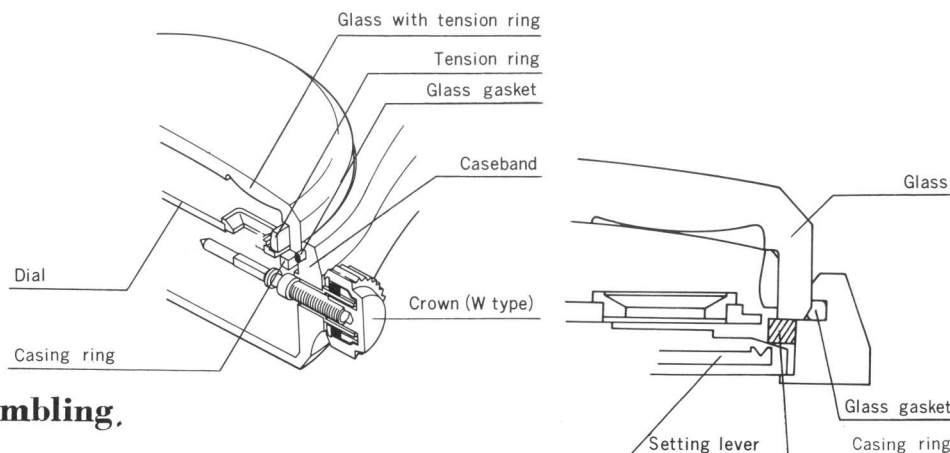
## 1 . Construction

Glass: Tension ring type

Case back: One-piece type

Crown: W type

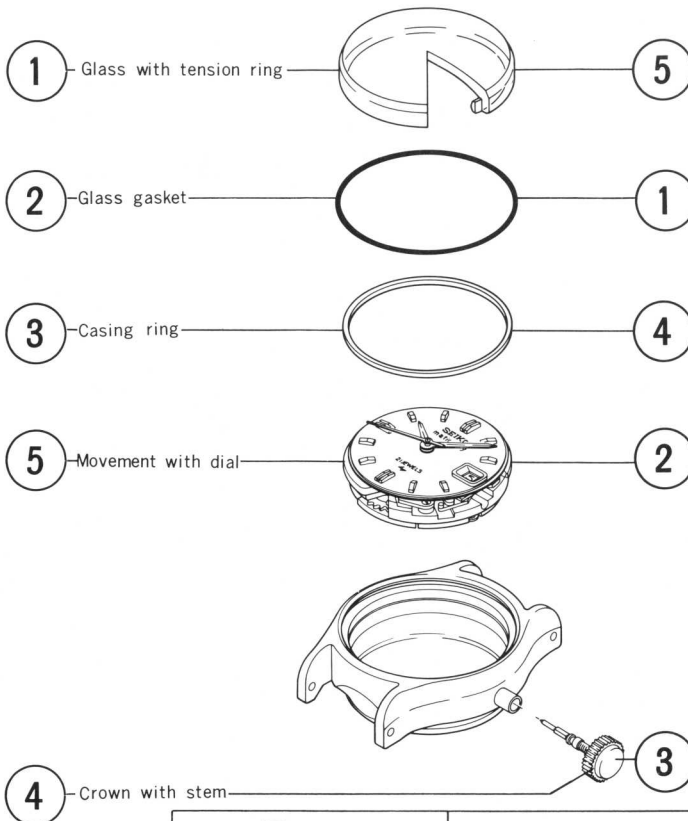
Feature is the one-piece waterproof case; movement is secured by glass through casing ring.



## 2 . Disassembling and assembling.

### Disassembling procedures

Remove glass by using SEIKO one-piece case opener (S-12 or S-14). Remove the glass after carefully reading the instruction Manual for SEIKO one-piece case opener.

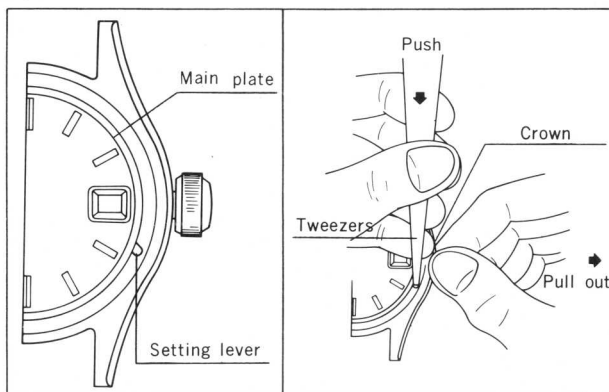


### Assembling procedures

Insert the glass with S-12, S-14 or Waterproof case tightening tool. Note) Remove all dirt on the contacting portion between glass and case; replace scratched parts with new ones; confirm setting of glass circumference with a finger tip after inserting the glass.

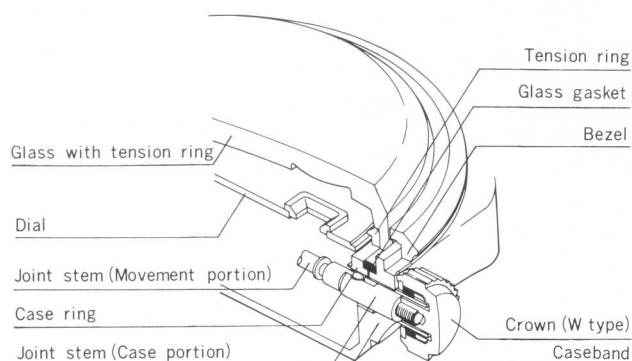
Apply silicon grease 500,000 c.s. to glass gasket.

Apply silicon grease 500,000 c.s. to crown gasket.



## 1 . Construction

Glass: Tension ring type  
Case back: One-piece type  
Crown: W type



## 2 . Disassembling and assembling

### Disassembling procedures

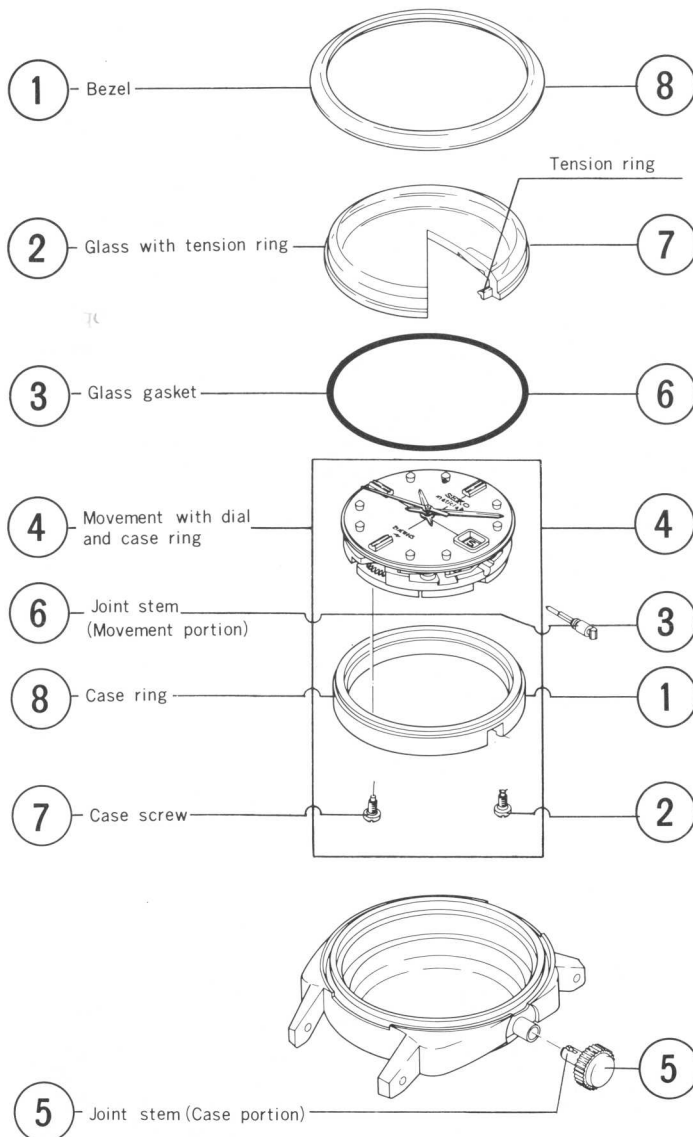
### Assembling procedures

Note) Two notches for opening are provided on the 6 and 12 o'clock portions; open these portions alternately.

Do not use one-piece case opener.

Turn over the watch and turn crown counterclockwise then slowly take it out.

Note) Previously spread a soft cloth where the movement will drop.



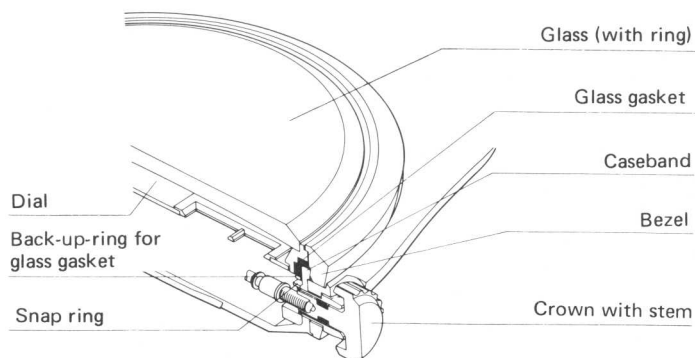
Apply silicon grease 500,000 c.s. to glass gasket.

Insert crown (with joint stem) into stem tube, then turn crown counterclockwise and push in crown after confirming an audible "click". Apply silicon grease 500,000 c.s. to crown gasket.

# One-piece-5

## 1. Construction

Glass: Hardlex  
Case back: One-piece type  
Crown: M type



## 2. Disassembling and Reassembling

### Disassembling procedures

### Reassembling procedures

Note: 1. Be careful not to reassemble the gasket upside down.  
2. Pay attention not to detach the glass from the ring edge.

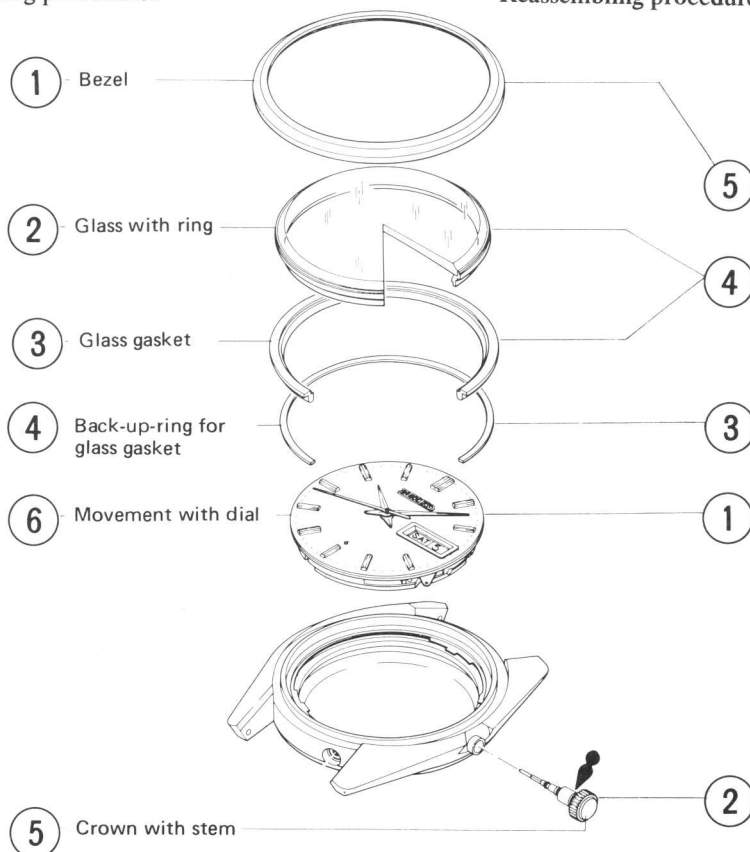
When tightening the bezel, press it in the setting with the glass ring edge.

Reassemble the glass and gasket, then put it on the case and press it in the bezel.

Apply silicon grease 500,000 c.s. to the gasket. Applying method is the same as that of case back gasket.

Take out the movement by turning the snap ring.

1.  
Note: Provide a soft cushion (cloth etc.) where the movement is to be ejected.



2 Apply silicon grease 500,000 c.s. to crown gasket.




# One-piece-6

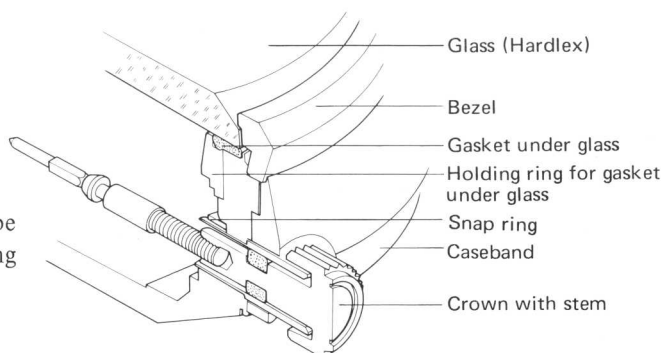
## 1. Construction of Glass Portion

The glass is fixed to the caseband with the bezel being held the holding ring for gasket and the gasket under glass.

## 2. Lubricating

The following marks in the diagram indicate the type and quantities of oil to be applied and the lubricating portions.

Type of oil	Oil quantity
 Silicon grease 500,000 c.s.	 Normal quantity Never lubricate the portions marked 



## 3. Disassembling and reassembling

**Note:**

### How to remove the glass

Remove the bezel by pushing with the case opener into the opening notch and then the glass can be removed.

### Disassembling procedures

① Bezel

② Glass

③ Gasket under glass

④ Holding ring for gasket under glass

### Reassembling procedures

⑥

⑤

④

③

⑥ Movement with dial

①

⑤ Crown with stem

②

# Screw-1

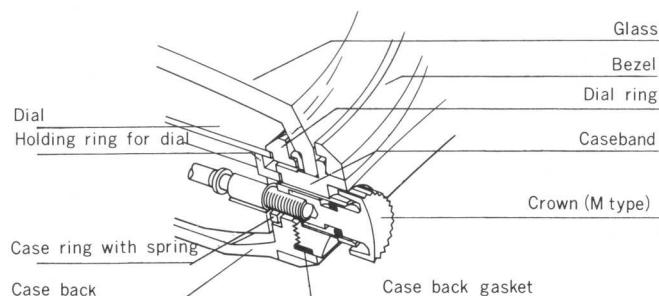
# Casing—continued

## 1 . Construction

Glass : Tension ring type

Case back : Screw type

Crown : M type



## 2 . Disassembling and assembling

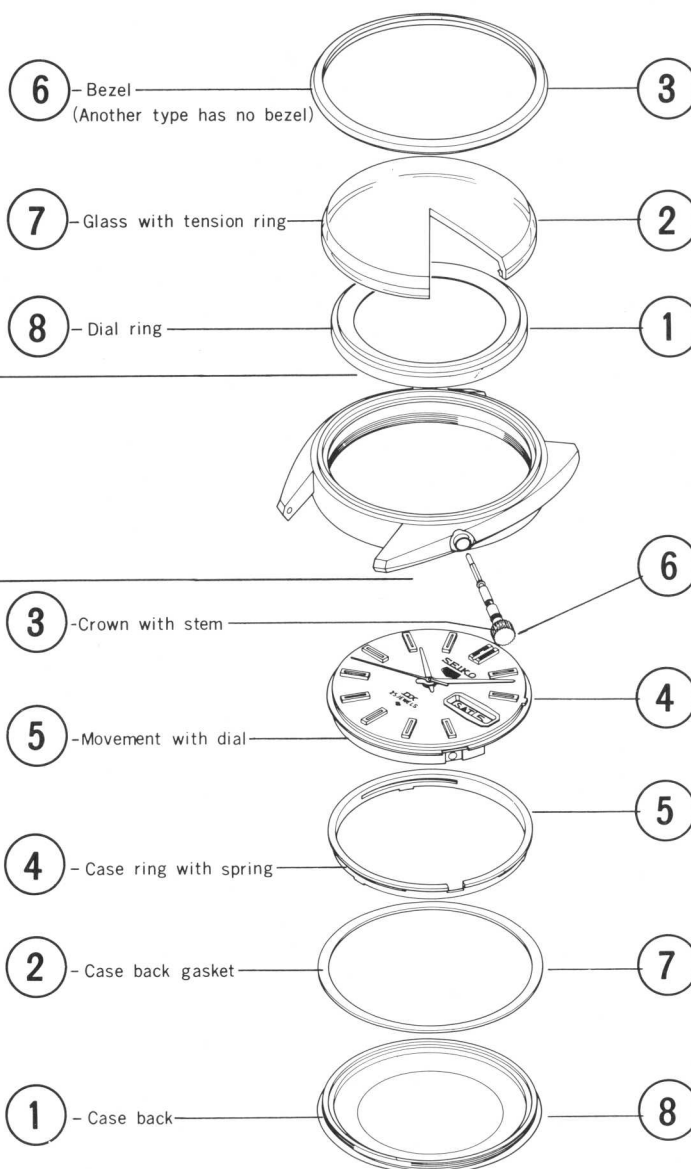
### Disassembling procedures

Detach the glass with tension ring by pushing it outward from the inner side.

Disassemble only when changing the glass. (⑥~⑧)

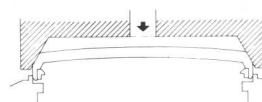
Disassemble when adjusting or repairing the movement. (①~⑤)

Another screw type has a case spring on the case ring. It is unnecessary to remove the spring from the case ring.



### Assembling procedures

Use SEIKO waterproof case tightening tool.



Do not use one-piece case opener.

Another case type has no dial ring.

Apply silicon grease 500,000 c.s. to the crown gasket.

Note) Set the projection of dial and the groove of dial ring.



Note) 1. Replace gasket when scratched or deformed.

2. Insert gasket into the groove of case back when reassembling.

3. Apply silicon grease 500,000 c.s. to case back gasket.

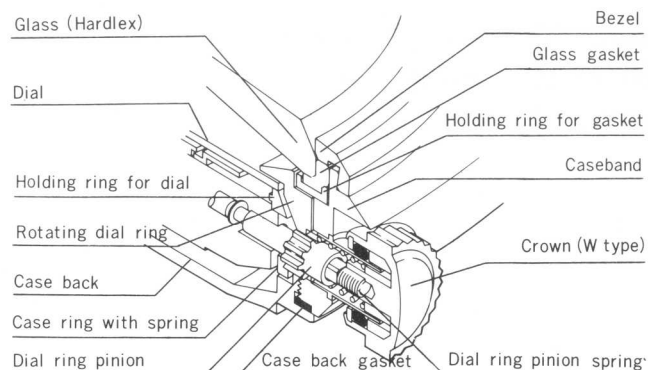
## 1 . Construction

Glass : Hardlex

Case back : Screw type

Crown : W type

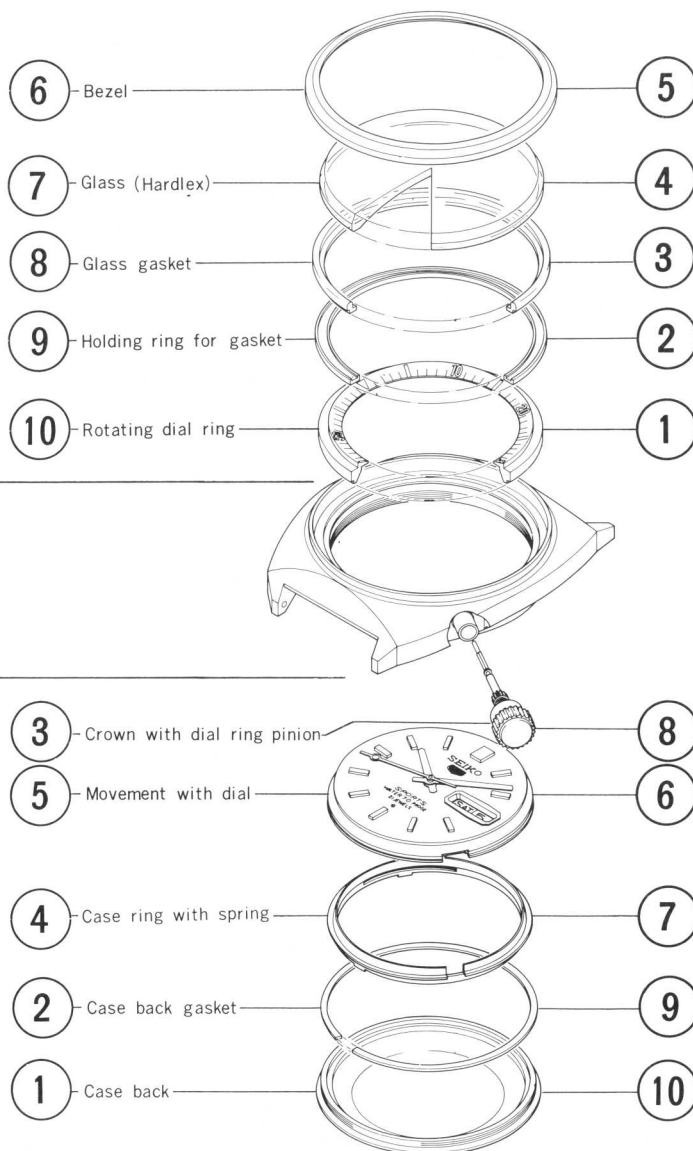
(Additional mechanism): Rotating ring



## 2 . Disassembling and assembling

### Disassembling procedures

### Assembling procedures



Disassemble only when changing glass. (6~10)

Disassemble when adjusting or repairing movement. (1~5)

Note) 1. Apply silicon grease 500,000 c.s. to crown gasket.

2. Insert the crown while interlocking dial ring pinion with rotating dial ring.

Note) 1. Replace gasket when scratched or deformed.

2. Insert gasket into the groove of case back when reassembling.

3. Apply silicon grease 500,000 c.s. to gasket.

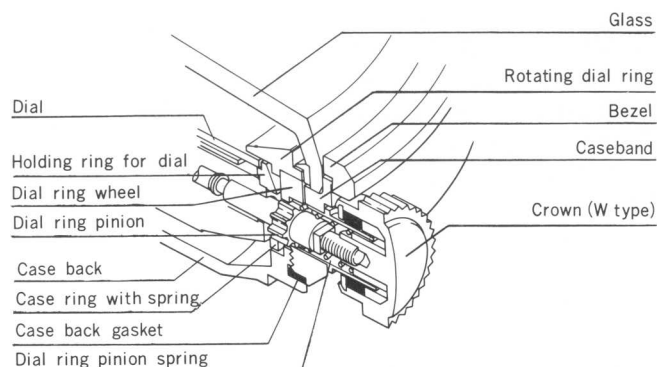
## 1. Construction

Glass: Tension ring type

Case back: Screw type

Crown: W type

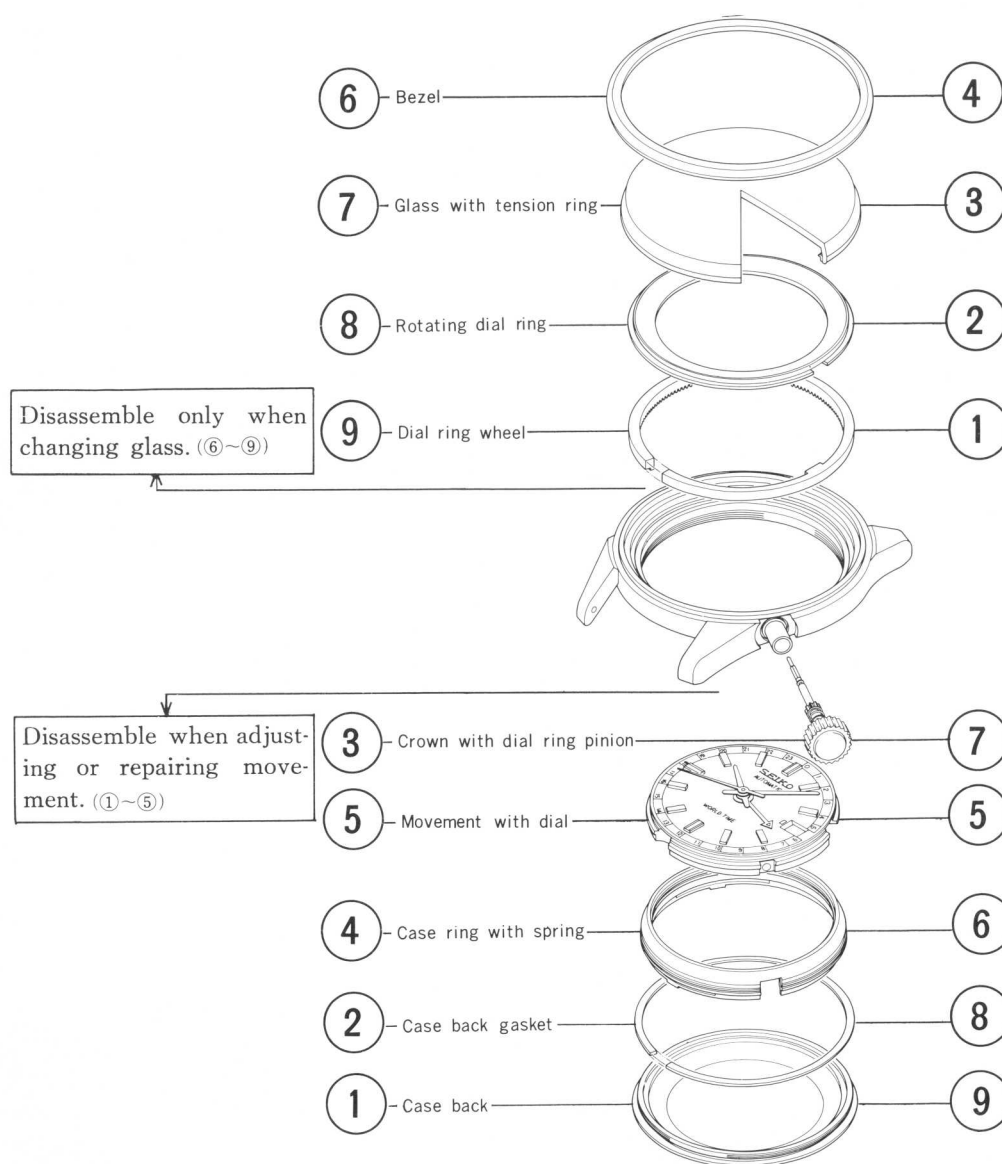
(Additional mechanism): Rotating dial ring



## 2. Disassembling and assembling

## Disassembling procedures

## Assembling procedures



Set the groove of rotating dial ring to the projection of dial ring wheel. Insert the pin of rotating dial to the hole of dial ring wheel.

Note) 1. Apply silicon grease 500,000 c.s. to crown gasket.

2. Insert the crown while interlocking dial ring pinion with rotating dial ring.

Note) 1. Replace gasket when scratched or deformed.

2. Insert gasket into the groove of case back when reassembling.

3. Apply silicon grease 500,000 c.s. to gasket.

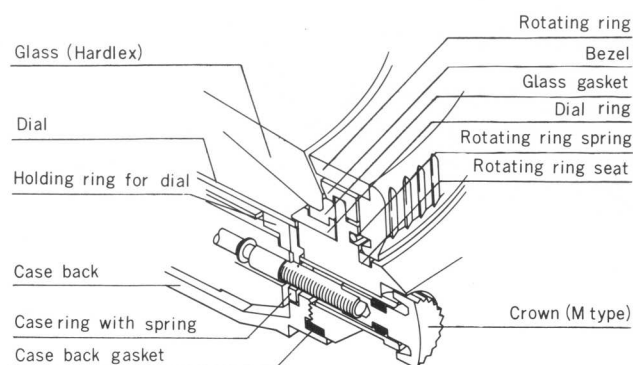
## 1 . Construction

Glass : Hardlex

Case back : Screw type

Crown : M type

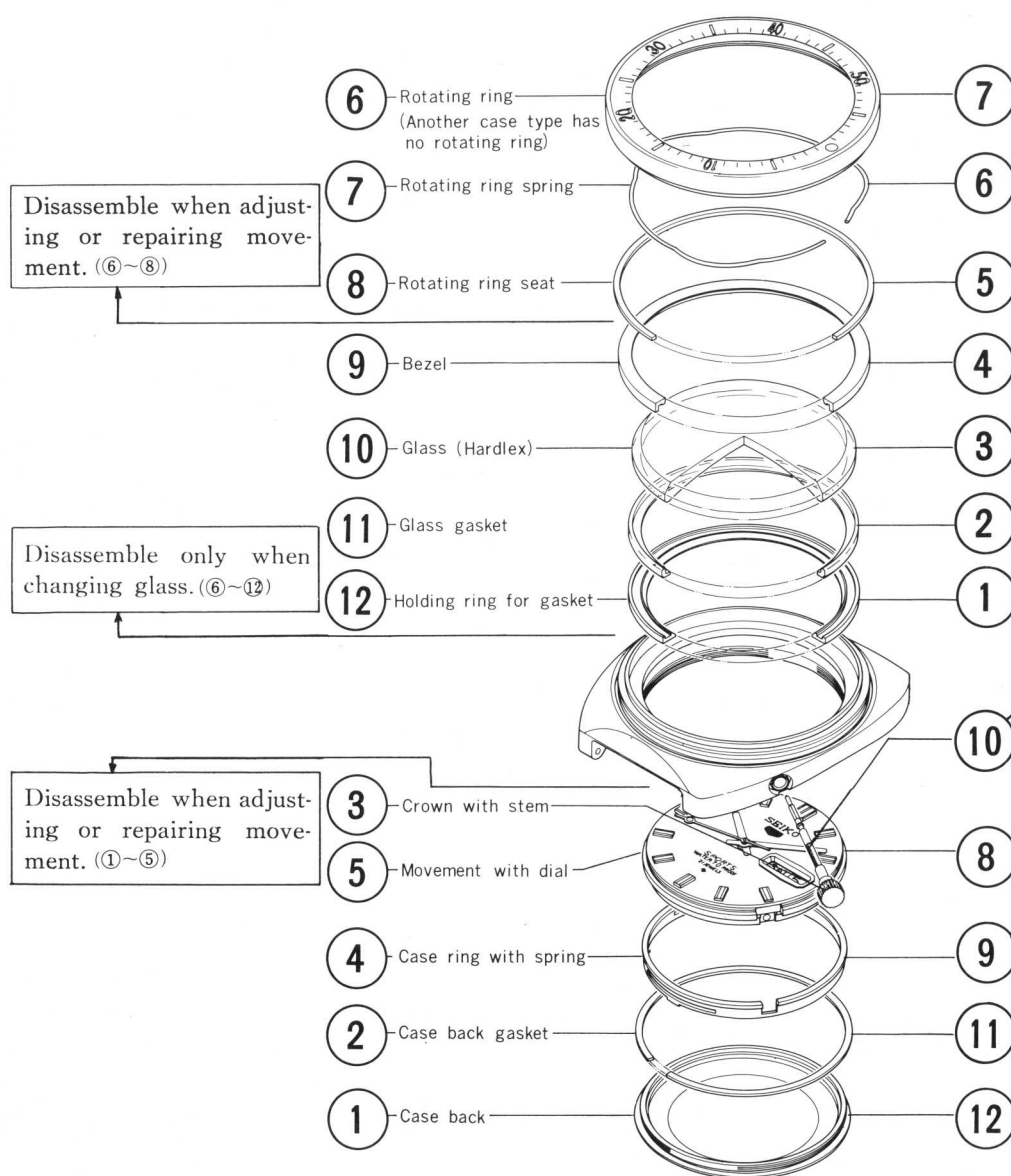
(Additional mechanism): Rotating ring



## 2 . Disassembling and assembling

### Disassembling procedures

### Assembling procedures



#### Inserting method of rotating ring

- (1) Insert rotating ring into case groove.
- (2) Hook rotating ring to one corner of rotating ring spring, then gradually press in rotating ring spring by using a case opener in the condition that rotating ring is depressed. By doing so, rotating ring can be set.

[When rotating ring is easily removed]

Bend three projected portions of rotating ring to the outside as shown by the dotted line.



Note) Apply silicon grease 500 000 c.s. to crown gasket.

Besides, there are casing clamp or case screw types.

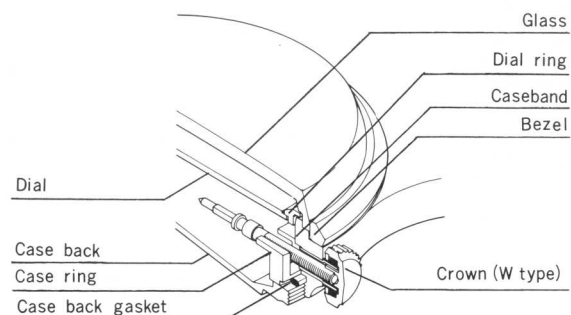
Assemble the dialed movement to case ring, then insert case ring into caseband.

Assemble after inserting gasket into case back groove. Another type assemble after inserting gasket into caseband groove. Replace when damaged or crushed. Apply silicon grease, 500,000 c.s. to gasket.



## 1 . Construction

Glass : Hooped type  
 Case back : Screw type  
 Crown : W type



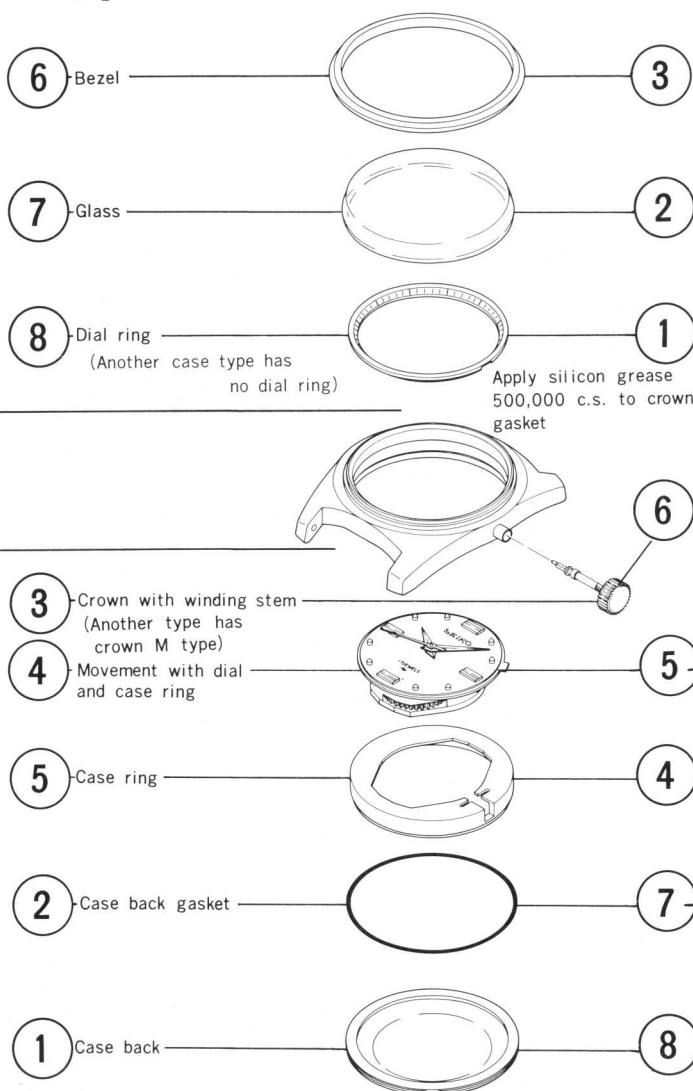
## 2 . Disassembling and assembling

## Disassembling procedures

## Assembling procedures

Disassemble only when  
 changing glass. (⑥~⑧)

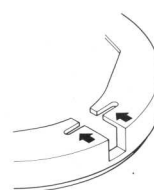
Disassemble when adjust-  
 ing or repairing move-  
 ment. (①~⑤)



Note) Set the projection of dial  
 and the groove of dial ring.



Fix the movement by bending the  
 groove portion in the direction of  
 the arrow.



Besides, there are casing clamp  
 or case screw types.

Note) 1. Replace gasket when  
 scratched or deformed.

2. Insert gasket into the  
 groove of caseband when  
 reassembling.

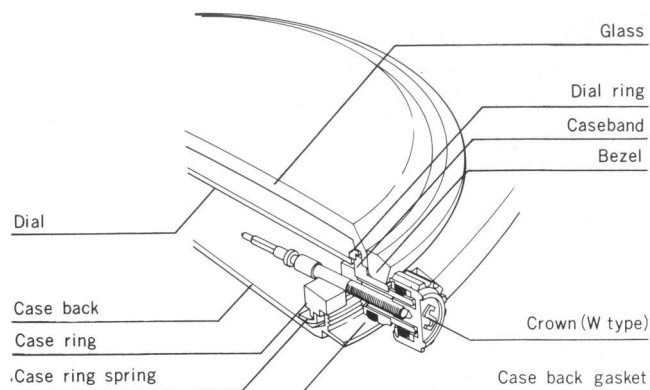
3. Apply silicon grease  
 500,000 c.s. to gasket.

## 1 . Construction

Glass : Hooped type

Case back : Screw type

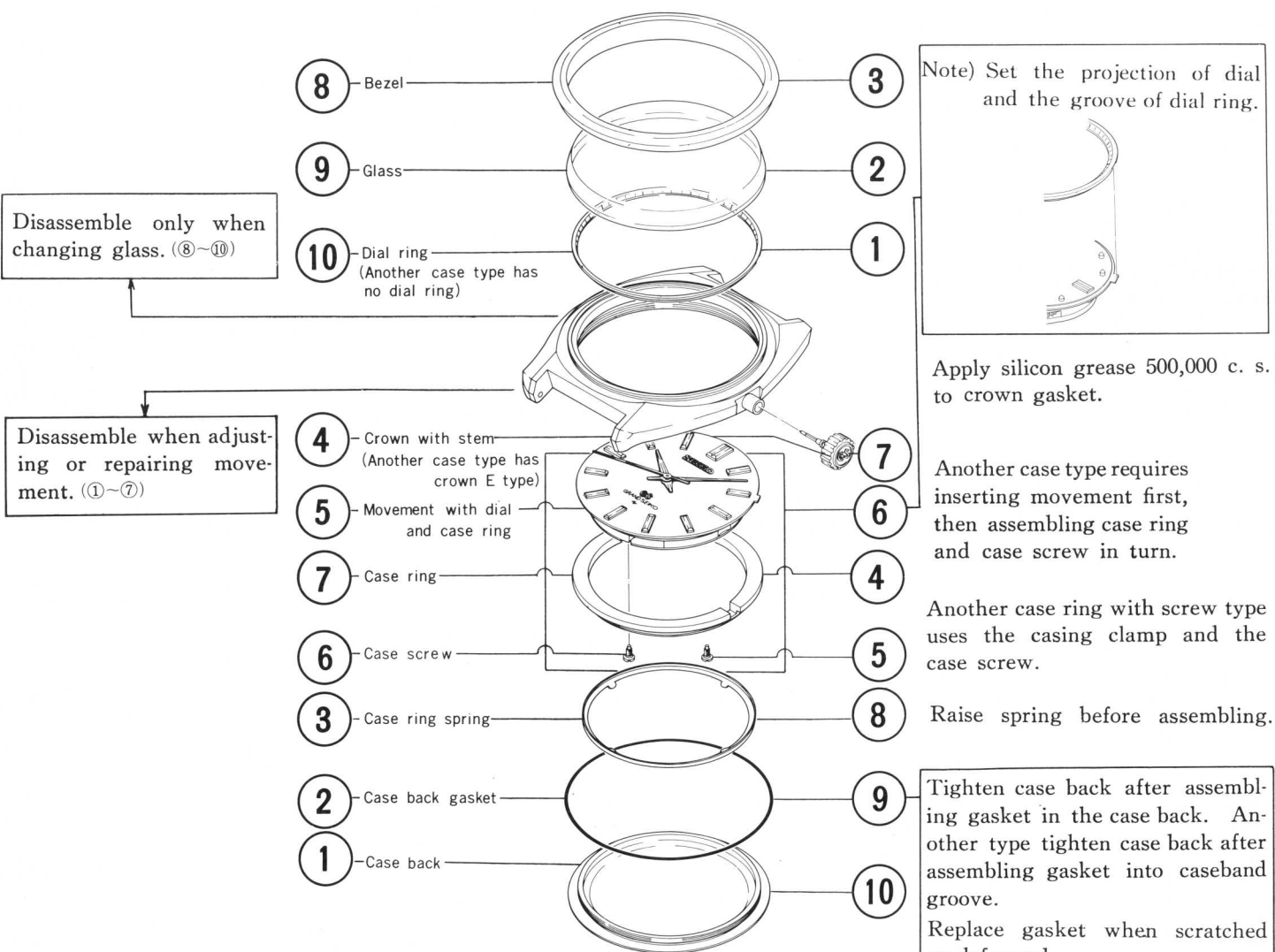
Crown : W type



## 2 . Disassembling and assembling

### Disassembling procedures

### Assembling procedures

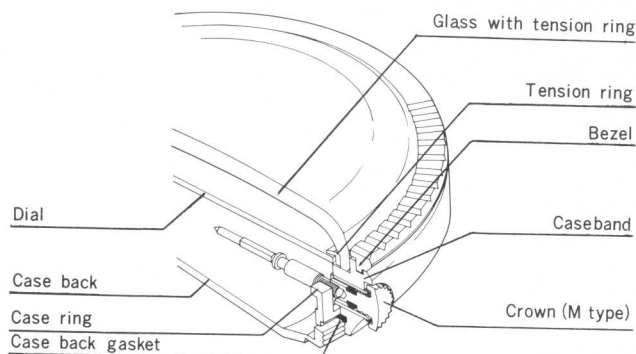


## 1 . Construction

Glass: Tension ring type

Case back: Screw type

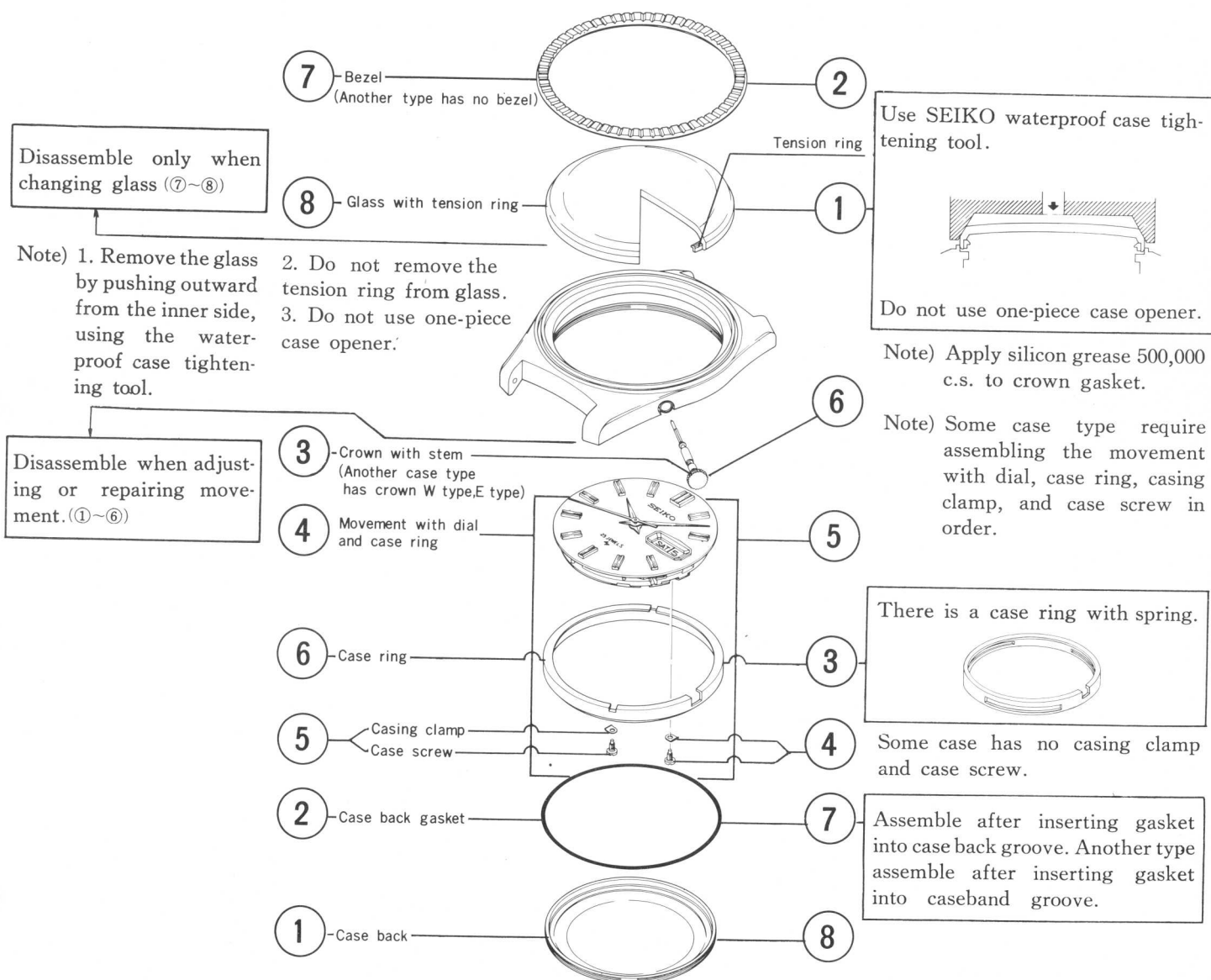
Crown: M type



## 2 . Disassembling and assembling

### Disassembling procedures

### Assembling procedures

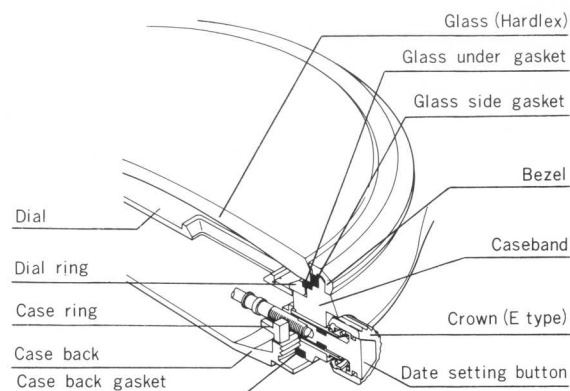


## 1 . Construction

Glass : Hardlex

Case back : Screw type

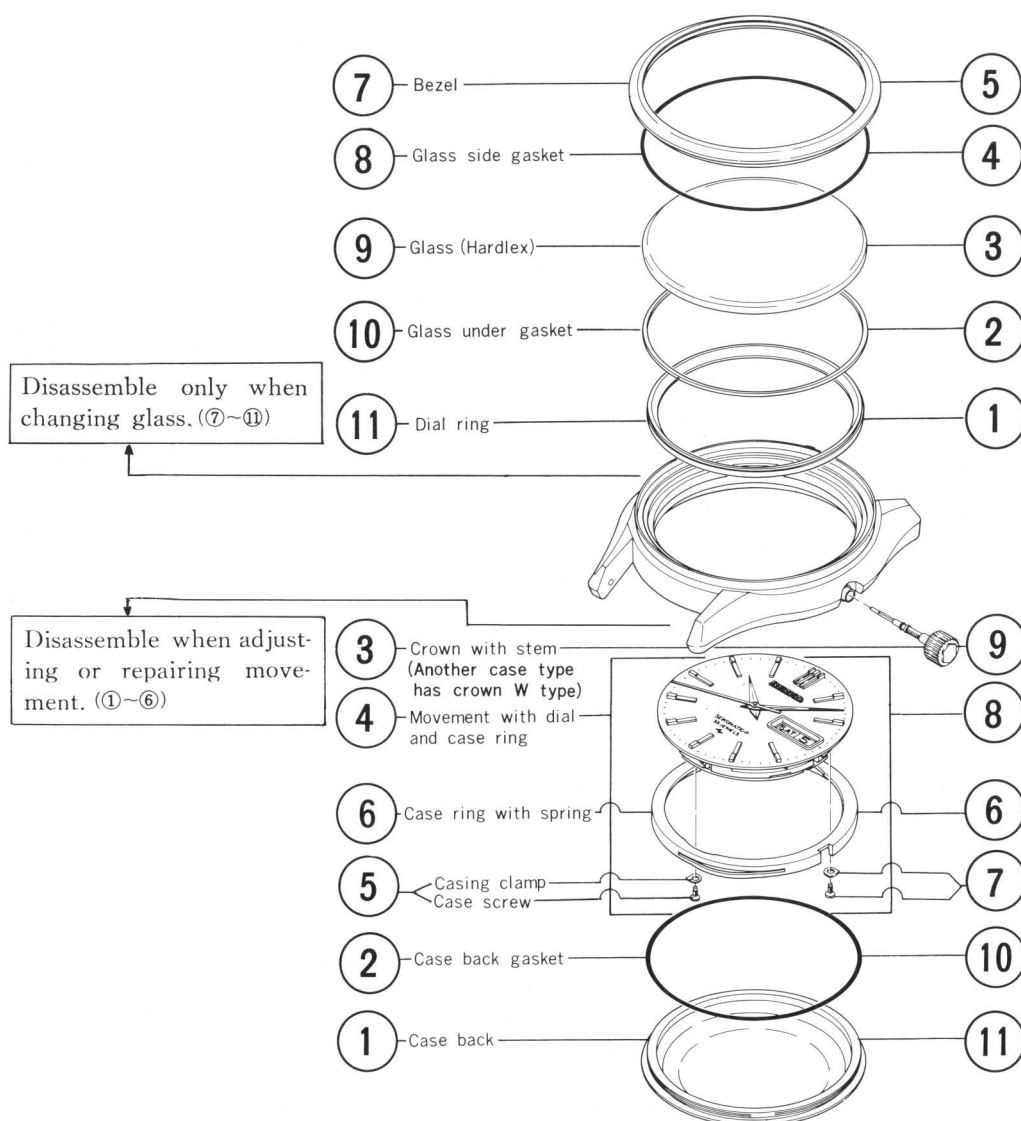
Crown : E type (with date setting button)



## 2 . Disassembling and assembling

### Disassembling procedures

### Assembling procedures



After putting bezel on the circumference of glass, press it in with a case tightening tool.

After checking for gaps between bezel and caseband, if a gap exists, remove bezel and replace gasket; then press bezel on again.

Apply silicon grease 500,000 c.s. to crown gasket.

- Note) 1. Replace gasket when scratched or deformed.  
 2. Insert gasket into the groove of case back when reassembling.  
 3. Apply silicon grease 500,000 c.s. to gasket.

## 1. Construction

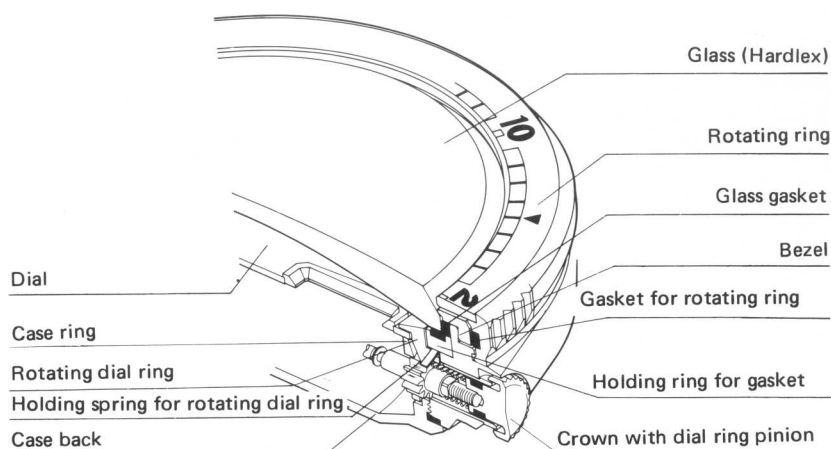
Glass: Hardlex

Case back: Screw type

Crown: W type

(Additional mechanism): Rotating ring

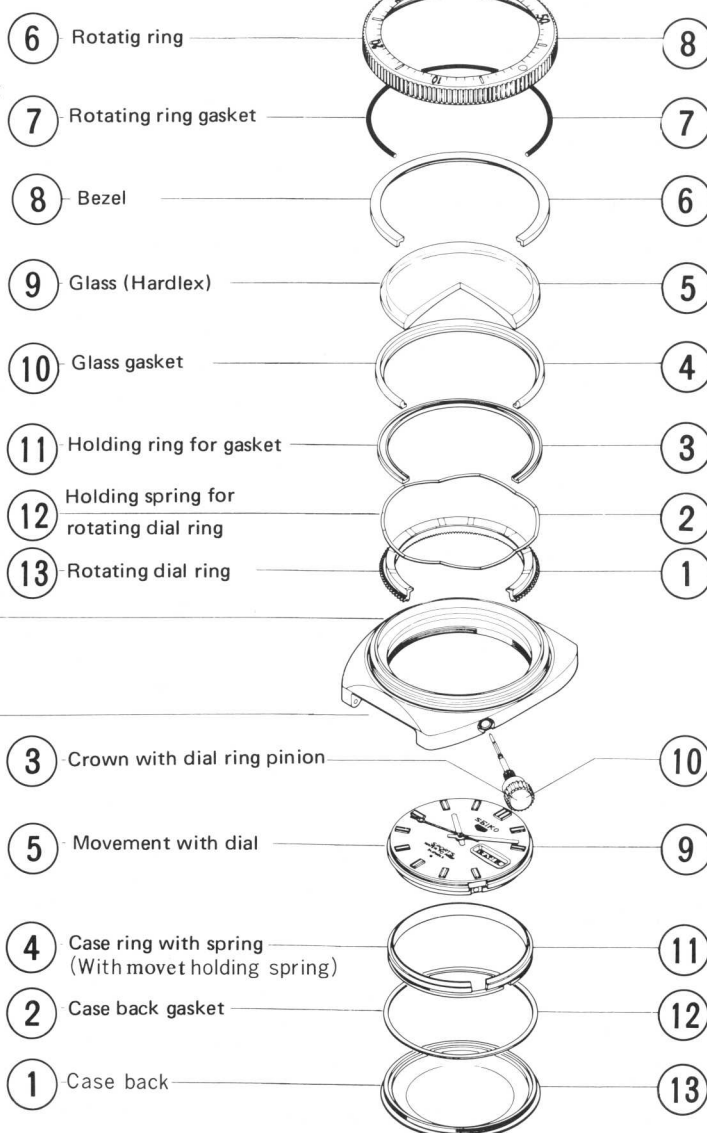
## 2. Disassembling and Assembling



## Disassembling procedures

## Assembling procedures

Some cases use a rotating ring spring.



Disassemble only when changing parts. (6-13)

Disassemble when adjusting or repairing movement. (1-5)

Do not detach movement holding spring. Some cases use a case ring with spring.

(Inserting method of rotating ring)  
There are two types of cases; one uses a gasket for rotating ring and another a rotating ring spring.

\* For cases using a rotating ring gasket

1) Insert gasket for rotating ring into inner groove of rotating ring.

2) Press in rotating ring by finger tip. If found to be too tight, use the tightening tool.

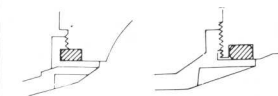
\* For cases using a rotating ring spring, refer to notes in Screw - 4.

Apply a small amount of silicon grease over entire circumference of the side of the glass and completely attach the glass to gasket. If grease is excessive, it will exude to stain the glass.

Note) Replace the gasket which is scratched or bent inward.

Note) 1. Apply silicon grease 500,000 c.s. to crown gasket.

2. Insert the crown while interlocking dial ring pinion with rotating dial ring.



Assemble after inserting gasket into case back groove. Another type: assemble after inserting gasket into caseband groove. Replace when damaged or crushed. Apply silicon grease, 500,000 c.s. to gasket.

## 1. Construction

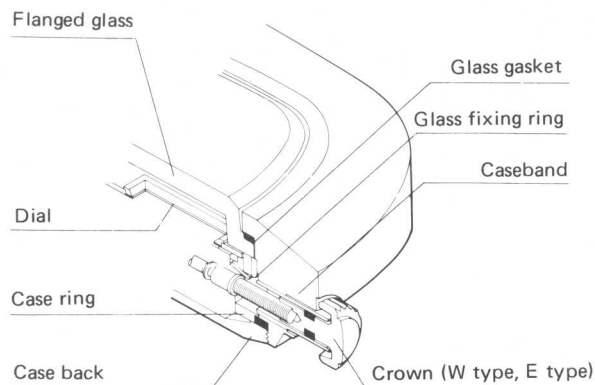
Glass: Flanged glass

Case back: Screw type

Crown: W type, E type

## Features

- \* This construction maintains a water resistant condition by pressing the glass and glass gasket to the caseband through action of the glass fixing ring.
- \* Water resistant condition is maintained by action of the glass fixing spring which presses the glass and glass gasket to the caseband, tightening the caseback through the case ring.

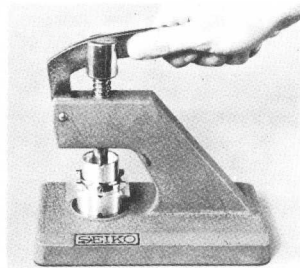


## 2. Disassembling and Assembling

## Disassembling procedures

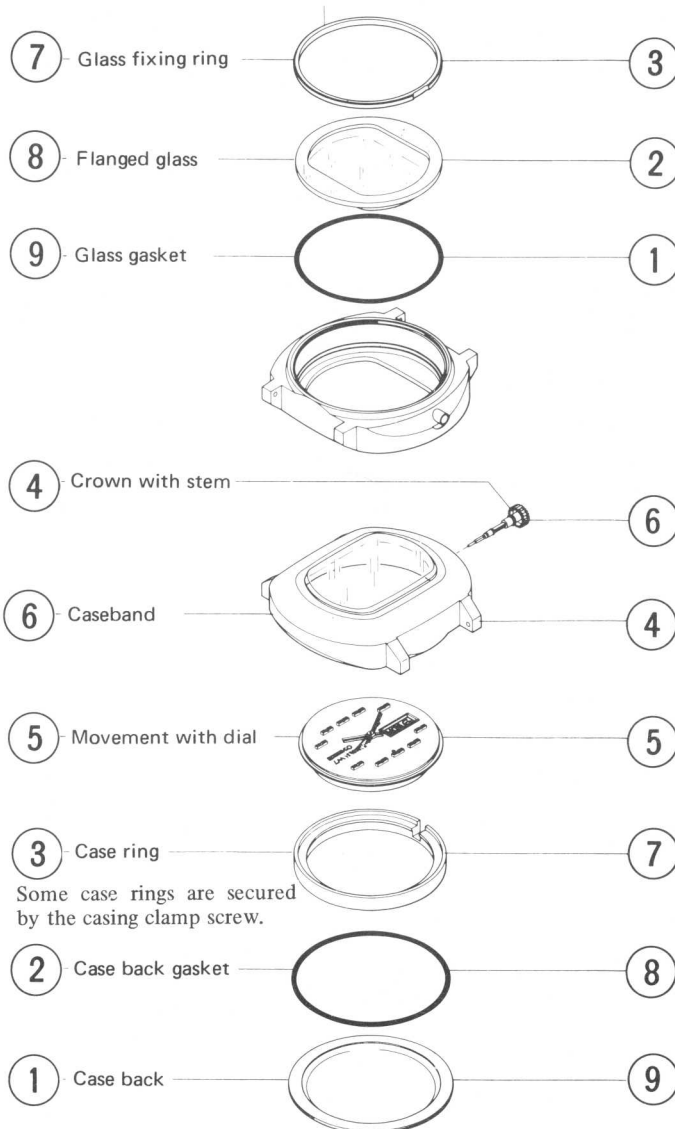
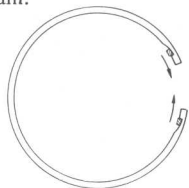
- \* For glass fixing ring type

Using the water resistant case tightening tool, remove the glass by pressing it as shown in the photo.



- \* For glass fixing spring type:

Remove the glass by narrowing the glass fixing spring with a pair of tweezers as shown in the diagram.



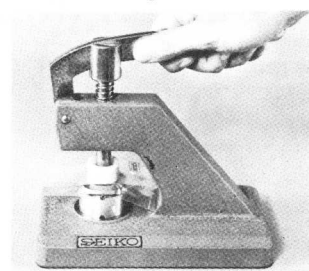
## Assembling procedures

- \* For glass fixing ring type:

1) After assembling the caseband and glass gasket, set the glass on it. (Do not apply silicon grease to the gasket.)

2) Set the glass fixing ring on the caseband after positioning a notch on the ring to the position of winding stem tube, then completely press it in by using the water resistant case tightening tool. (Refer to photo)

Note) Select a slightly larger Disk than the glass and always spread a vinyl film over it to prevent scratches. Select a Inserting Disk (for glass with tension ring) suitable for the glass fixing ring, then press the glass in, being careful not to damage the winding stem tube.



- \* For glass fixing spring type

1) Assemble the glass gasket inside the caseband, and set the glass on it.

2) Set the glass fixing spring in the groove of caseband after narrowing the spring by using a pair of tweezers.

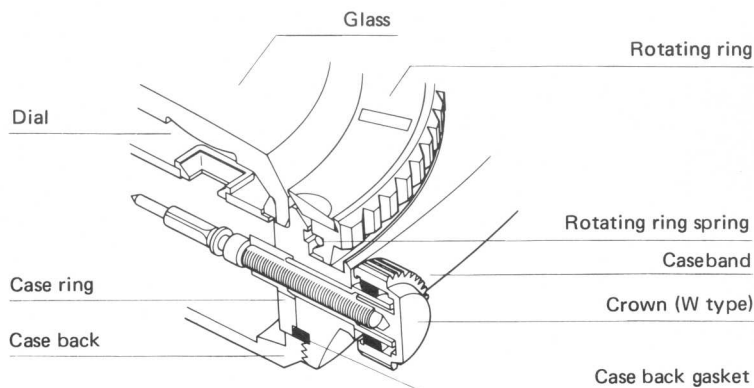
Set the movement holding spring on the movement before installing the dial and holding ring for dial.

## 1. Construction

Glass: Tension ring type

Case back: Screw type

Crown: W type



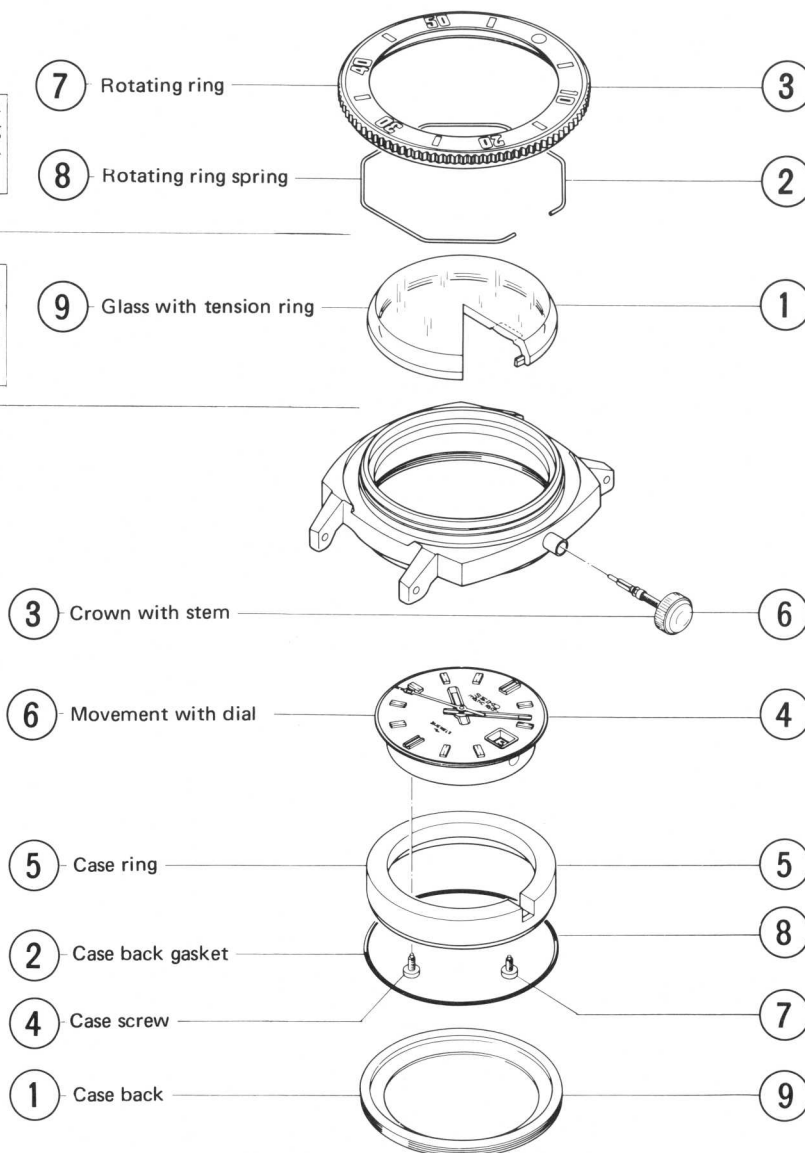
## 2. Disassembling and Assembling

## Disassembling procedures

## Assembling procedures

Remove only when adjusting turning weight of the rotating ring. (7-8)

Disassemble only when changing the glass (Jig tool S-14). (7-9)



After inserting the rotating ring spring into the groove, press the rotating ring in the caseband while slightly turning it.

If the rotating ring is loose, enlarge the opening of rotating ring spring; when too tight, do otherwise.

When inserting glass, press it in by using the Inserting Disk (for glass with tension ring)

Apply silicon grease 500,000 c.s. to crown gasket.

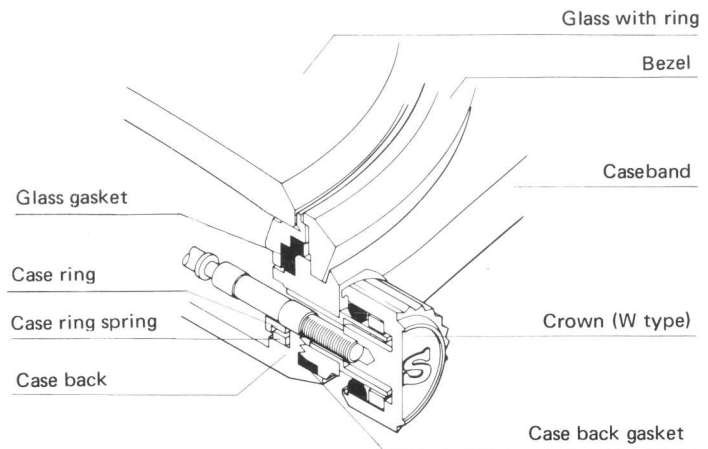
Before assembling the caseback gasket, apply a small amount of silicon grease 500,000 c.s.

## 1. Construction

Glass: Hardlex (glass with ring)

Case back: Screw type

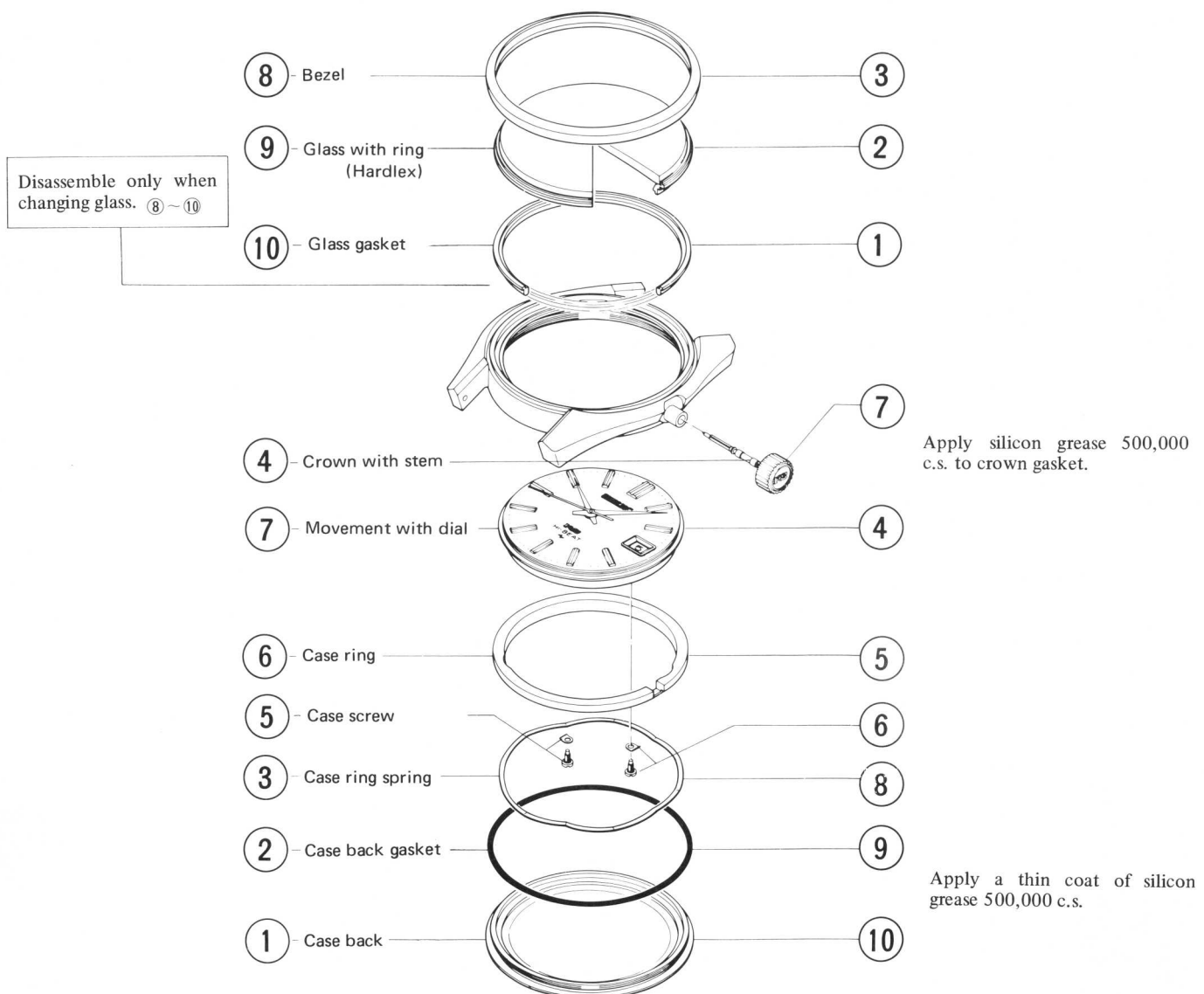
Crown: W type



## 2. Disassembling and Assembling

### Disassembling procedures

### Assembling procedures



# Screw - 13

# Casing - continued

## 1. Construction (Stopwatch)

Glass: Hardlex (glass tightening type)

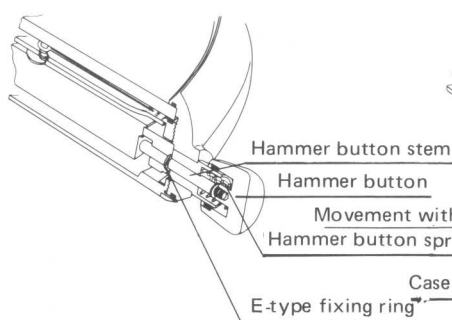
Case back: Screw type

Crown: R type

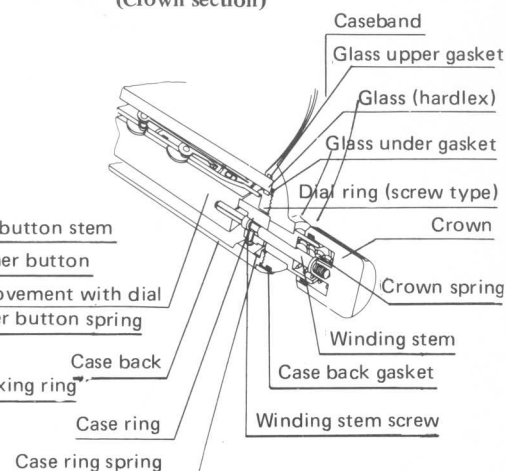
### Features:

Splash-resistant construction; the dial ring of the case presses the glass and glass gasket to the caseband to keep splash-resistant.

(Hammer button section)



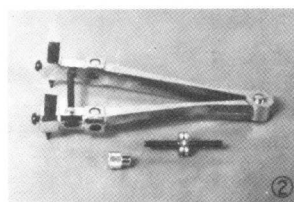
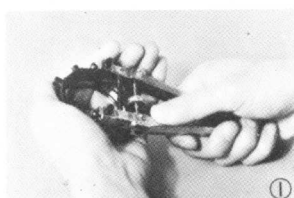
(Crown section)



## 2. Disassembling and assembling

### (Disassembling and assembling the glass)

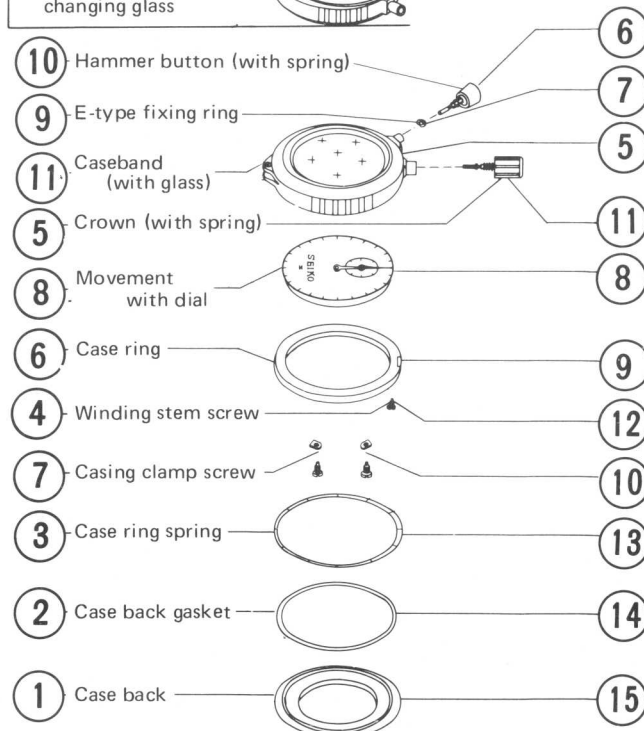
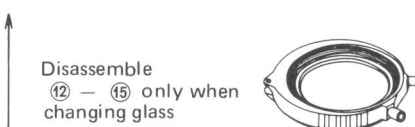
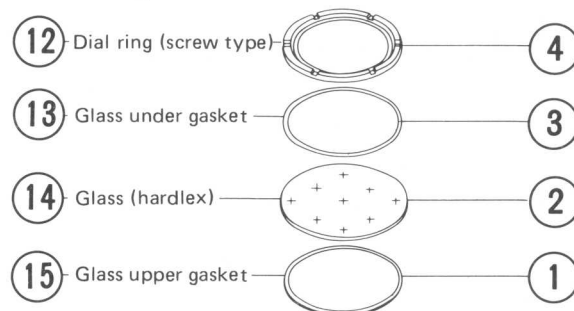
Use the case opener to remove the dial ring (screw type), turning the ring as shown in Photo 1. Since the dial ring diameter is large, use the case opener in a free condition by removing the adjusting screw of the case opener. (Photo 2).



### (Disassembling the hammer button)

First remove the E-type fixing ring set on the hammer button stem by a pair of tweezers, and then remove the hammer button.

### (Disassembling)



### (Assembling)

- o After temporarily tightening the dial ring with the fingers, securely retighten it with the case opener.
- o Do not apply silicon grease to the glass under gasket.
- o Apply a small amount of silicon grease to the glass upper gasket.
- o Always confirm that the gaskets are not twisted.

### (Assembling the hammer button)

After installing the hammer button on the case, set the E-type fixing ring in a groove of the hammer button stem by using a pair of tweezers.

### (Opening and closing methods of the case back)

Open or close the case back with the case opener securing the case by hand as shown in photo-3.



Note:  
When securing the case by hand, pay attention not to press the crown and the hammer button section.

## 1. Construction (G-structure)

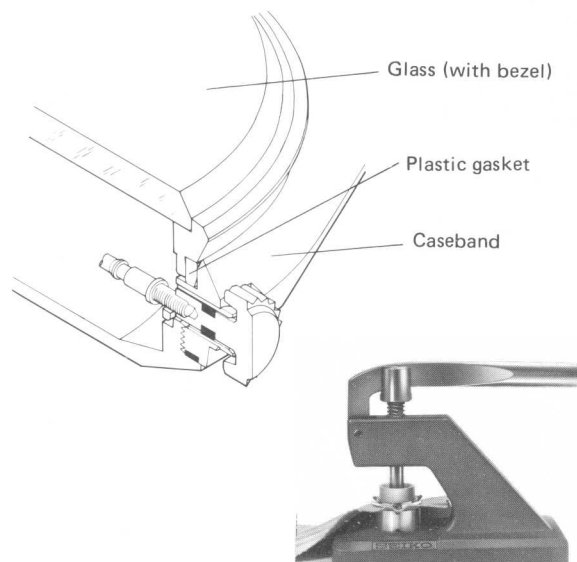
**Glass:** Hardlex (Its glass portion has unique features; various conventional combinations are provided on the case back and crown portions)

**Features:** The bezel is combined with the glass; however, some glasses are without bezels. The water-resistant characteristic is maintained by having the plastic gasket pressed to the case with the glass or the bezel. Notch for opening the case is not provided.

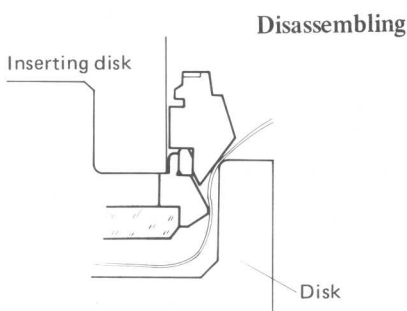
## 2. For disassembling and Assembling

**Note:** It is unnecessary to remove the glass with bezel and plastic gasket except when replacing them.

When detaching or attaching the glass (with bezel), use exclusive disks (S-160).



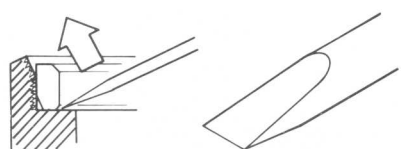
### (How to remove the glass [with bezel])



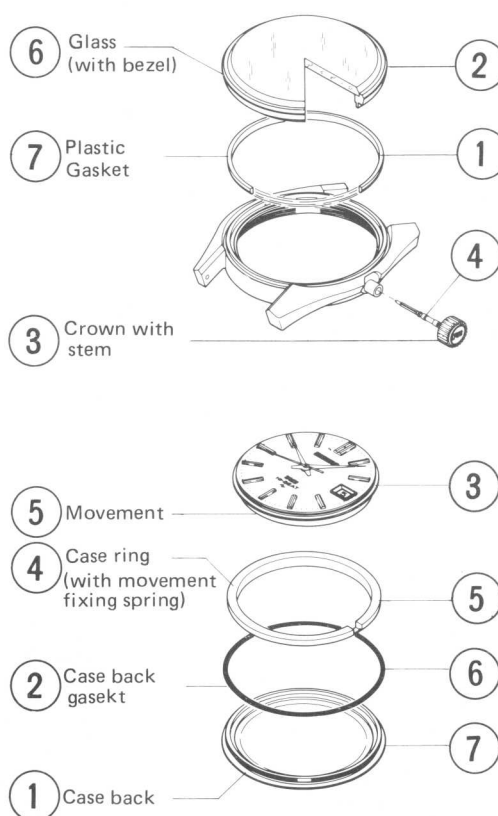
Using the SEIKO water-resistant case tightening tool, remove the glass from the inner side by pushing the glass bezel without pressing on the actual glass (as shown in diagram).

Use a larger diameter disk than the bezel and always set the case. Spread a soft cloth to avoid scratches.

Should the plastic gasket adhere to the case, raise it slightly by using a thin wooden stick or toothpick with a beveled tip. Never scratch the case portion indicated by the oblique lines. Should case be scratched, water-resistant characteristic would be impaired.



### Disassembling



### Assembling

#### Plastic gasket

Assemble the glass combined with the gasket or after combining the plastic gasket with the glass to the case. Do not mistake the plastic gasket's upper with the lower side.

- Never re-use a plastic gasket which has been already used.
- Wash in alcohol for a while.

#### To assemble the glass (with bezel):

Push the glass in as shown in diagram, using the SEIKO water-resistant case tightening tool.

Select a slightly larger inserting disk than the glass and press on the glass bezel. Never press on the actual glass.

Use soft cloth to prevent scratching the glass.



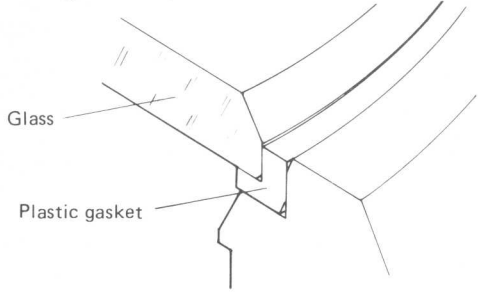
#### When the glass is elliptical in shape

Select a slightly larger inserting disk than the longer elliptical diameter of the glass, then press in the glass bezel.

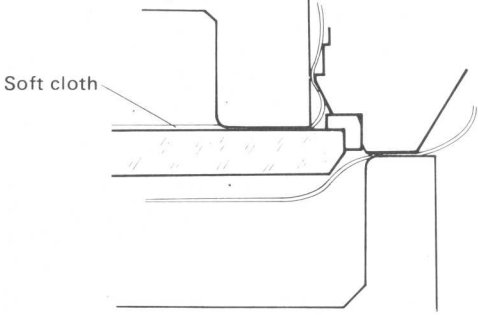
When the case back gasket is soiled, wash the gasket. Replace the scratched and/or deformed gasket and apply a 500-thousand unit of silicon grease.

# Screw-14

When glass has no bezel



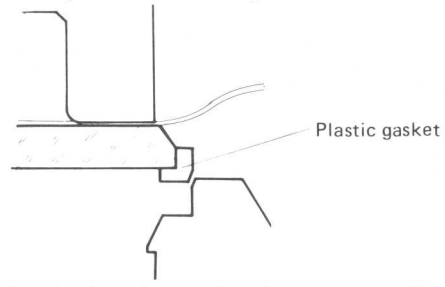
(How to remove glass)



Push out the glass by using SEIKO water-resistant case tightening tool after spreading cloth on the disk.  
Select a slightly larger removing disk than the glass.  
Select a slightly larger disk than the plastic gasket for receiving and lay the flat surface of the case on the cloth.

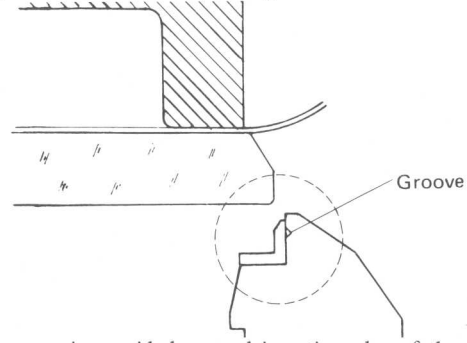
(How to fix glass)

1) When groove is not provided around edge.



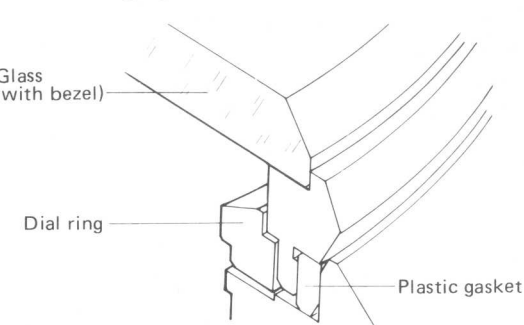
After fixing the plastic gasket on the glass, push the flat surface of the glass with the flat surface of the inserting disk, spreading soft cloth between them. Select a slightly larger inserting disk than the outer diameter of the glass.

2) When groove is provided around edge

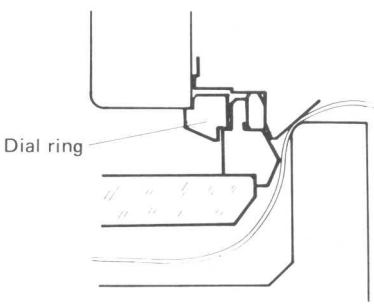


When groove is provided around inserting edge of the case (as shown in diagram), press in the glass after inserting gasket in the case.

When dial ring is provided

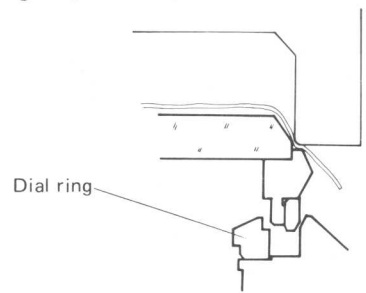


(How to remove glass [with bezel])



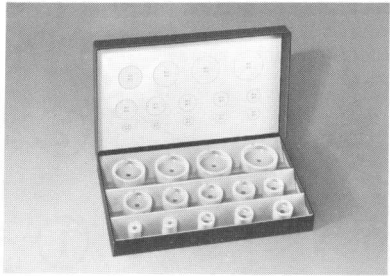
Push out the glass by pressing the dial ring with the removing disk. Selecting a slightly larger disk than the glass bezel, receive the case on soft cloth.

How to fix glass (with bezel)



First, set the dial ring on the case as shown in diagram, then press in the glass.

\* Use SEIKO exclusive disks (S-160) when attaching or detaching the glass (with bezel)



# Screw-15

## 1. Construction

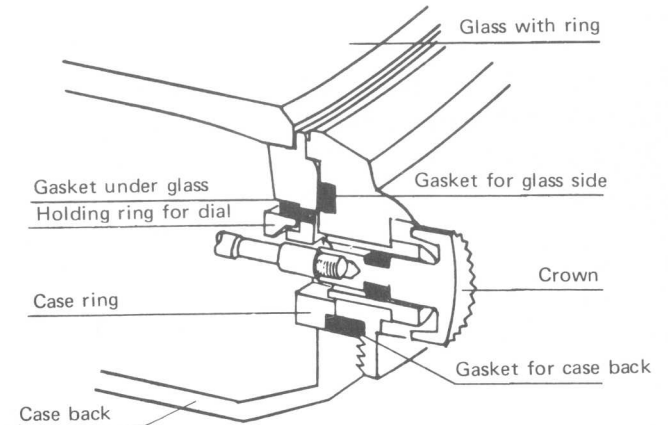
### 1-1 Construction of Glass Portion

The glass with ring which is matched with the caseband is pushed up to the caseband by the case ring.

## 2. Lubrication

The following marks in the diagram indicate the types and quantities of oil to be applied and the lubricating points:

Types of Oil	Oil Quantity
● Silicon grease 500,000 c.s.	○ Liberal quantity
	○ Normal quantity
	⊗ No lubrication



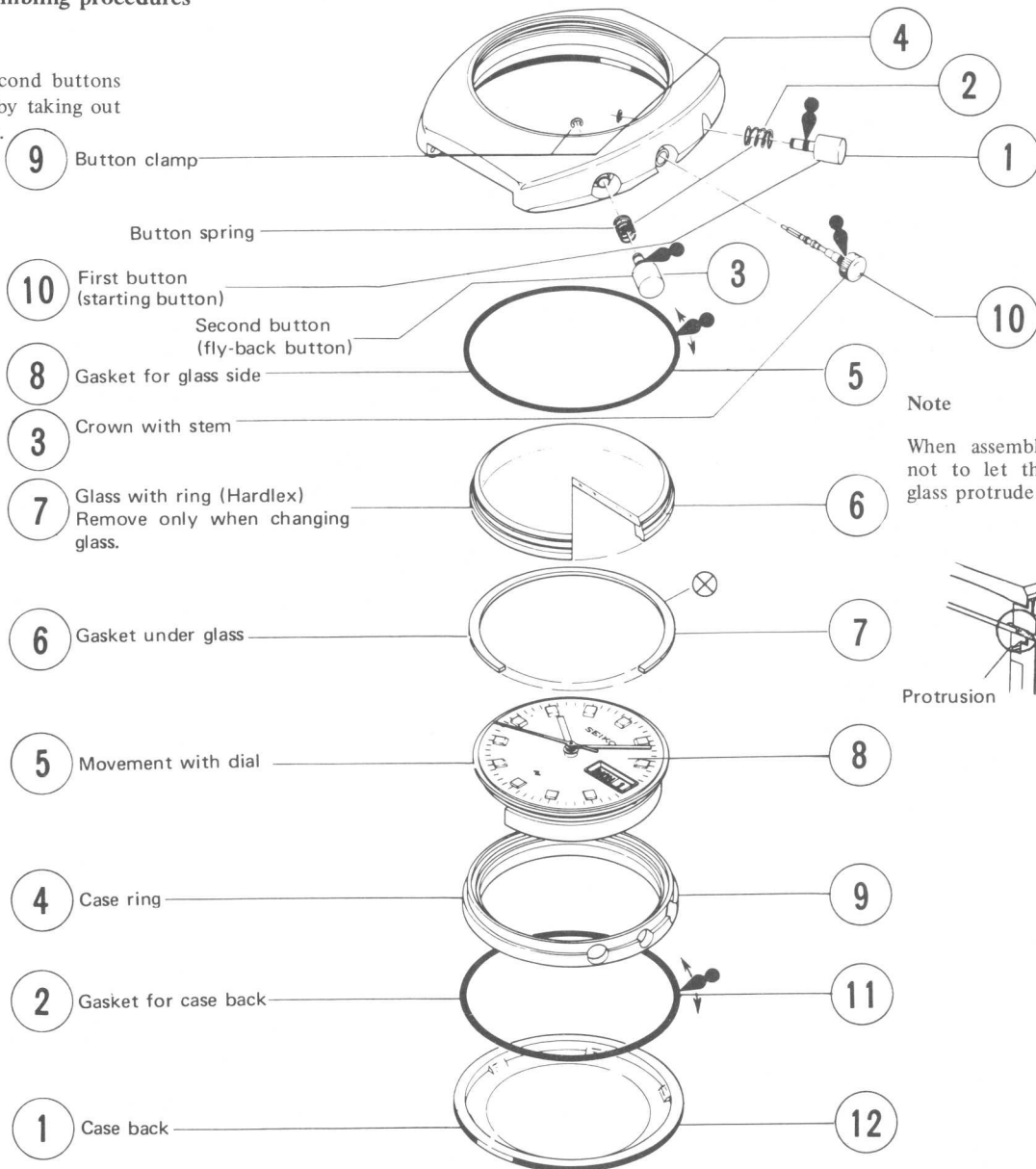
## 3. Disassembling and Assembling

### Disassembling procedures

#### Note

The first and second buttons can be removed by taking out the button clamp.

### Assembling procedures



# Screw-16





## 1. Construction

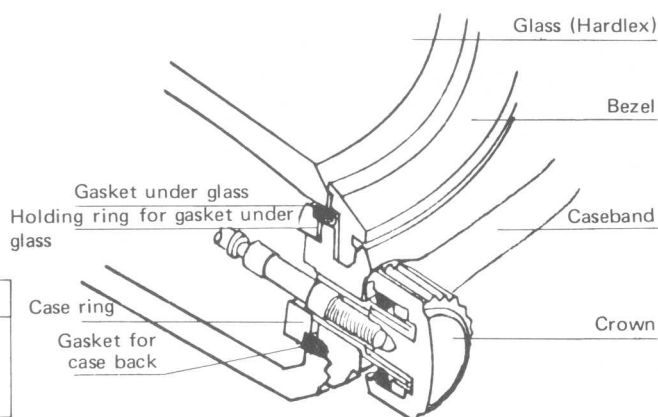
### 1-1 Construction of Glass Portion

The glass and gasket under glass are fixed to the caseband along side of the bezel.

## 2. Lubrication

The following marks in the diagram indicate the types and quantities of oil to be applied and the lubricating points:

Types of Oil	Oil Quantity
 Silicon grease 500,000 c.s.	 Liberal quantity  Normal quantity  No lubrication

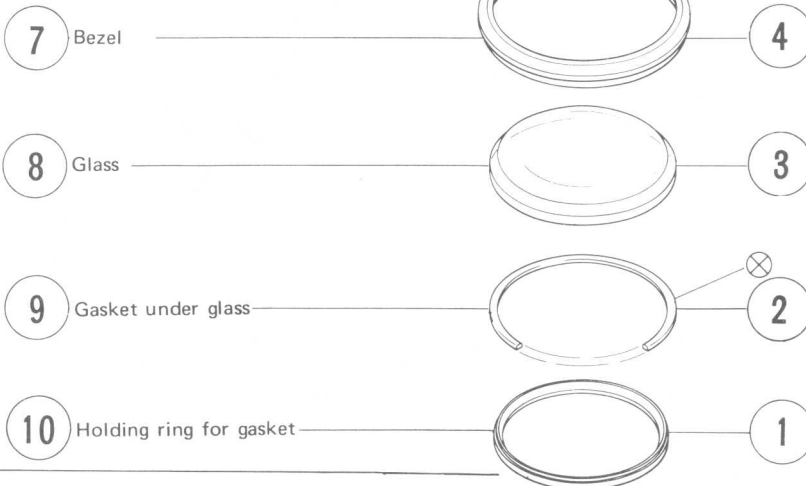


## 3. Disassembling and Assembling

### Note

- How to remove the glass  
Remove the glass from the bezel by pushing the case opener into the groove of the bezel.

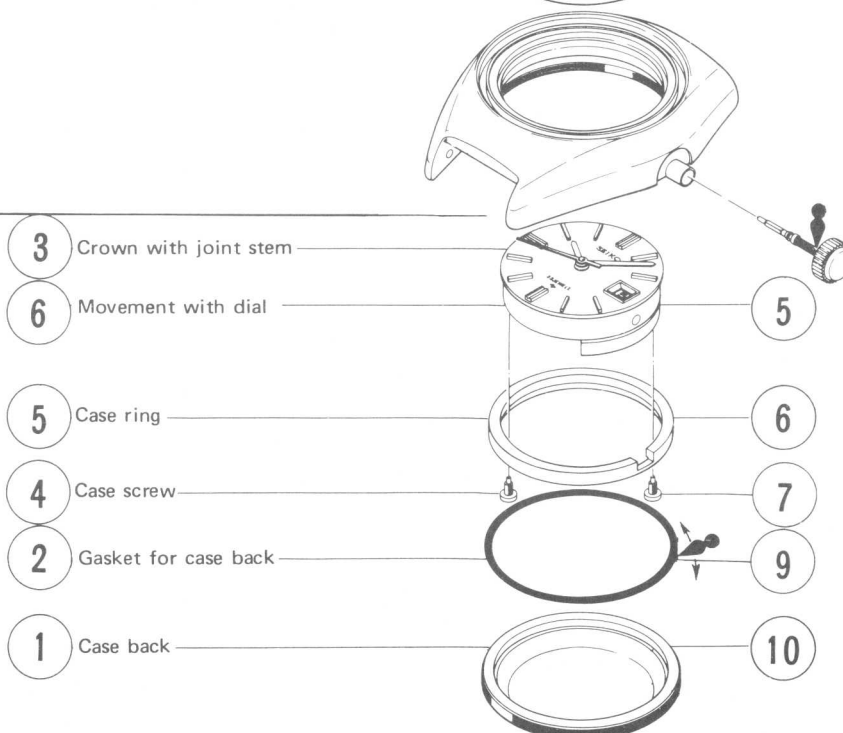
### Disassembling procedures



Remove only when replacing the glass.

Remove the case-band when repairing the movement.

### Assembling procedures



# Screw-17




## 1. Construction

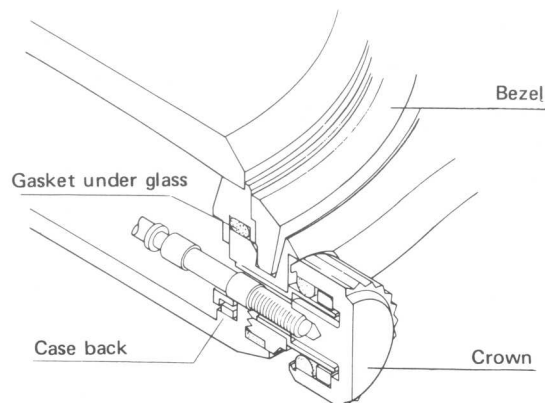
### 1-1 Construction of Glass Portion

The glass with ring pushes the gasket to the caseband along side of the bezel.

## 2. Lubrication

The following marks in the diagram indicate the types of oil and quantities to be applied and the lubricating points.

Types of Oil	Oil Quantity
 Silicon grease 500,000 c.s.	 Liberal quantity  Normal quantity



## 3. Disassembling and Assembling

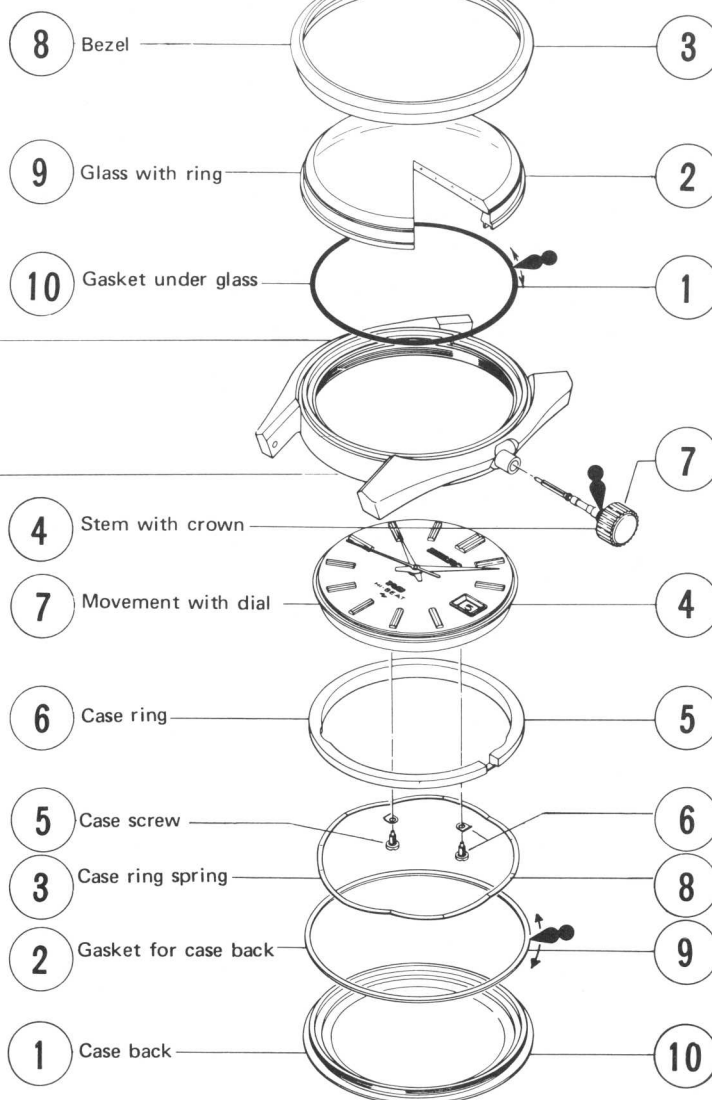
### Note

Remove the bezel by pushing the case opener into the opening notch and then the glass can be removed as follows.



Remove only when replacing the glass.

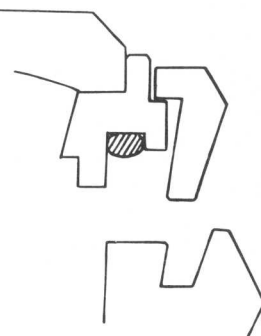
### Disassembling procedures



### Assembling procedures

### Note

Push the gasket into the glass ring and fix the glass ring with gasket by the bezel using the inserting disk.



Remove the case-band when repairing the movement.




# Screw-18

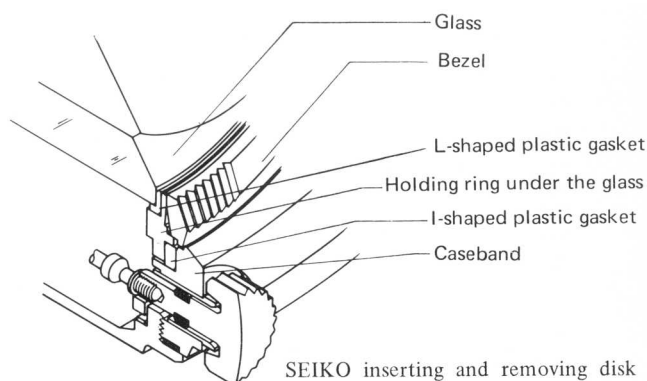
## 1. Construction of Glass Portion

The glass is held with the holding ring under the glass which has the L-shaped plastic gasket placed on its upper shelf (hollow) and the I-shaped plastic gasket placed between its lower side and the caseband. For this construction the glass and bezel should be pressed very firmly into the caseband so as to have a very tight fit with the gaskets.

## 2. Lubricating

The following marks in the diagram indicate the type and quantities of oil to be applied and the lubricating portions.

Type of oil	Oil quantity
 Silicon grease 500,000 c.s.	 Normal quantity Never lubricate the portions marked 



SEIKO inserting and removing disk S-160

Use S-160 inserting and removing disk for this type of construction.

## 3. Disassembling and reassembling

Note:

### How to remove the glass

Do not pry open the bezel, but remove the glass from inner side of the caseband together with the bezel.

See next page for details.

### Disassembling procedures

⑦ Glass combined with glass, bezel, holding ring under the glass and L-shaped plastic gasket

⑧ I-shaped plastic gasket

Disassemble only when glass is replaced with new one.

④ Crown with stem

⑥ Movement with dial

⑤ Case ring

③ Case ring spring

② Gasket for case back

① Case back

### Reassembling procedures

②

①

④

③

⑤

⑥

⑦

⑧

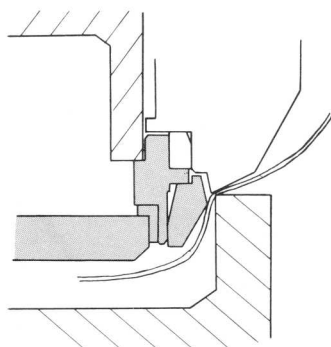
## Screw-18

### 3-1 How to remove the glass portion

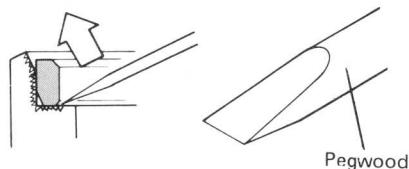
Do not remove the glass except when it is replaced with new one. Do not use an I-shaped plastic gasket once used, which must be replaced with new one.

Remove the glass portion with SEIKO water-resistant case tightening tool (S-220) and inserting and removing disk (S-160) while pushing the holding ring under the glass from its inside.

Select the inserting and removing disk of larger diameter than that of the bezel, and a chamois sheet must be placed between the inserting and removing disk and the caseband.



SEIKO tightening tool (S-160)

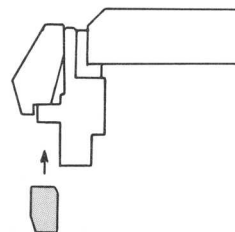


Pegwood

When an I-shaped plastic gasket is left on the caseband, remove it with a tip of a pegwood as shown in the illustration. Be careful not to scratch the shaded portion of the caseband, which may cause defective water-resistant.

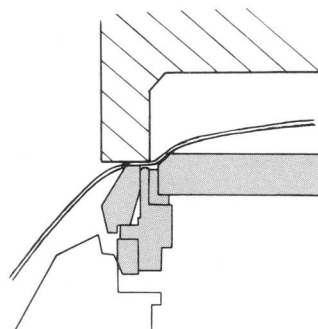
### 3-2 How to fix the glass portion

1. Fix an I-shaped plastic gasket into the glass (combined with glass, L-shaped plastic gasket, bezel and holding ring under the glass).



2. Use SEIKO water-resistant tightening tool (S-220) and select the inserting and removing disk (S-160) of a little larger diameter than that of the bezel and push in the bezel to fix the glass portion as shown in the illustration.

A chamois sheet must be placed between the inserting and removing disk and the bezel to prevent scratching.



# Screw-19





## 1. Consturction of glass portion

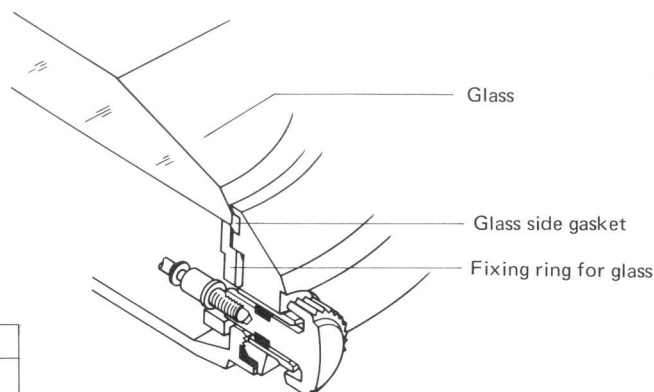
### 1-1 Construction of Glass Portion

The glass is fixed by the fixing ring for glass and by the caseband, having the glass side gasket in the upper inside groove of the caseband.

## 2. Lubricating

The following marks in the illustration indicate the type and quantities of oil to be applied and the lubricating portions.

Type of oil	Oil quantity
 Silicon grease 500,000 c.s.	 Normal quantity
	 Small quantity
	Never lubricate the portions marked 

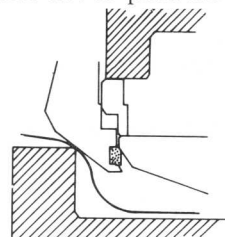


**Note:**

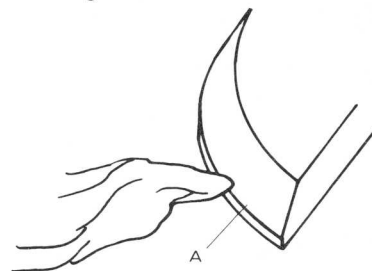
### ○ How to reassemble the glass

Be sure to check the glass side gasket is fixed into the groove of the caseband, and push the glass in together with the fixing ring for glass.

Be careful not to push the glass only.

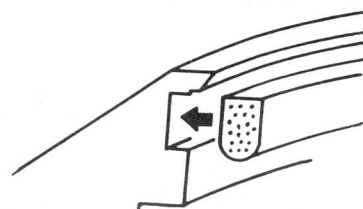


- Apply silicon grease (500,000 c.s.) extremely small quantity around the glass circumference (A), which facilitates to fix the glass into the bezel.



### ○ How to handle the glass side gasket

It is not necessary to remove the gasket under normal disassembling and re-assembling conditions. Clean only the contacting portion with the glass. Replace the glass side gasket with a new one when it is removed and put it into the groove of the caseband as shown below.



## 3. Disassembling and reassembling

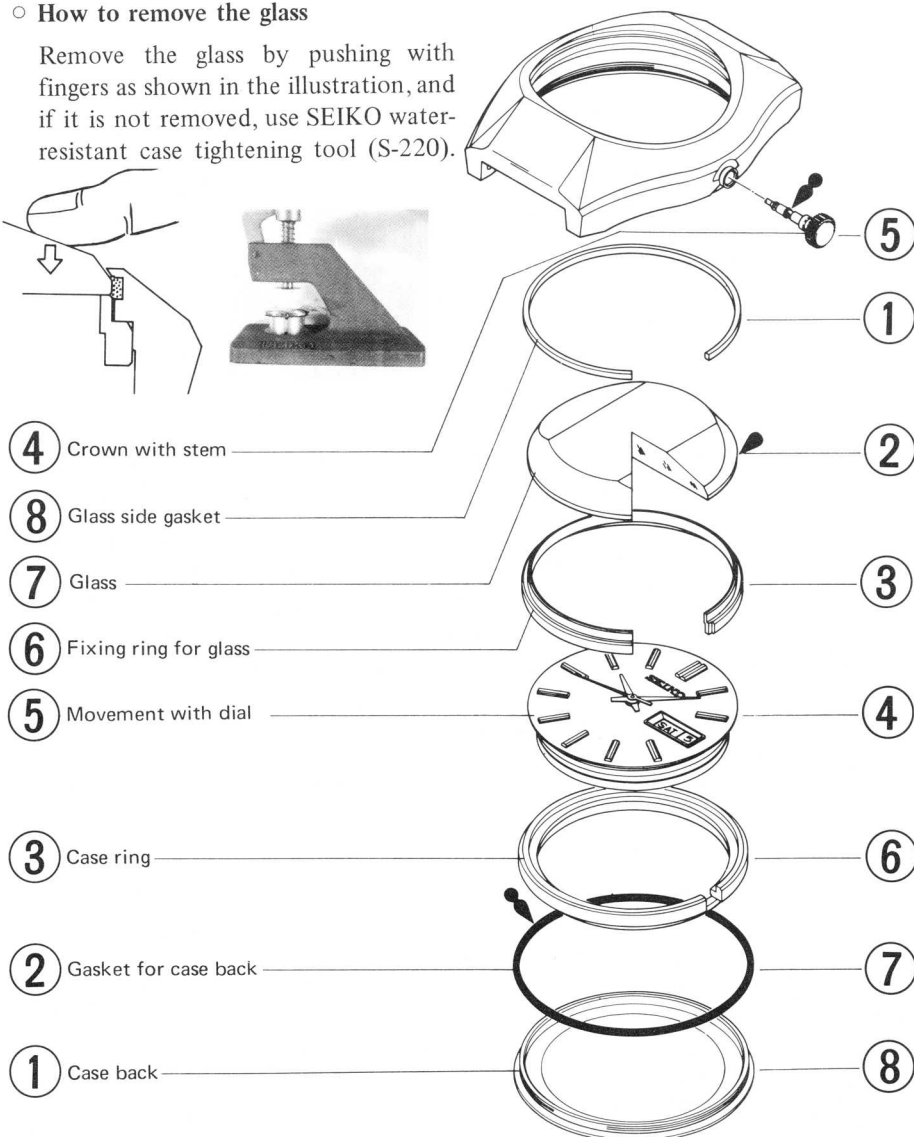
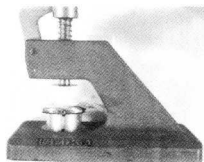
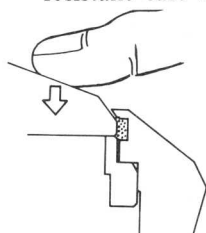
**Note:**

**Disassembling procedures**

**Reassembling procedures**

### ○ How to remove the glass

Remove the glass by pushing with fingers as shown in the illustration, and if it is not removed, use SEIKO water-resistant case tightening tool (S-220).



# Screw-20

## 1. Construction

### 1-1 Construction of Glass Portion

The gasket for glass is pushed to the bezel with the glass, and the plastic gasket is pushed to the caseband with the bezel.

### 1-2 Crown construction

As there are screw-threads in the inner surface of the crown and on the surface of the stem pipe and under normal use the crown must be screwed in. When pulling out the crown, unscrew the crown. The stem spring located inside the crown works to push the crown toward outside, and the gasket for crown is fixed with the holding ring for gasket.

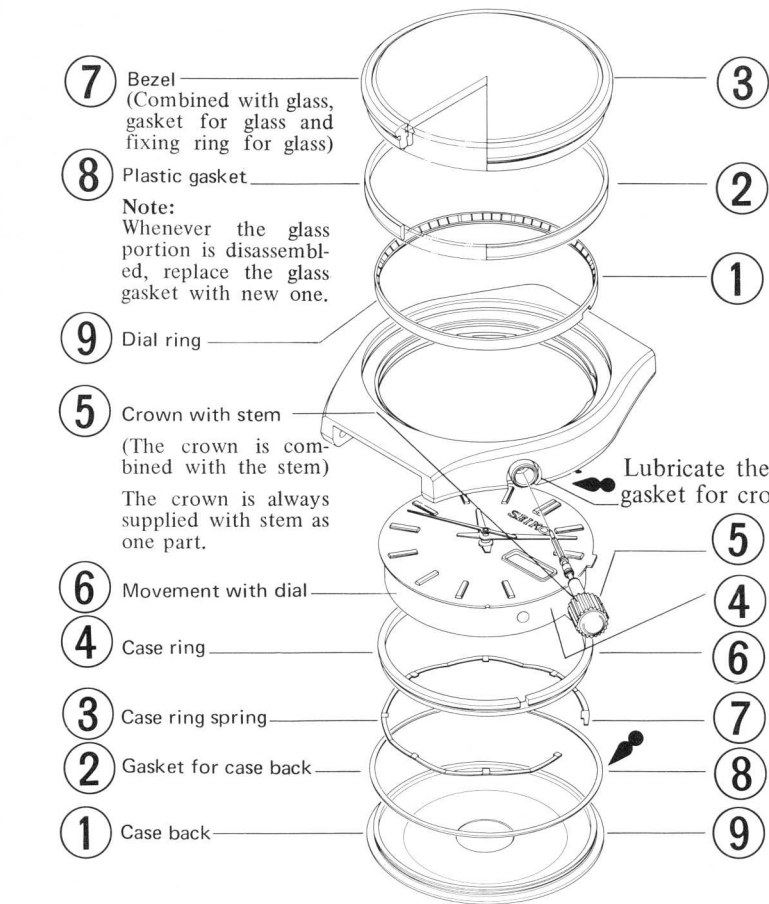
## 2. Lubricating

The following marks in the diagram indicate the type and quantities of oil to be applied and lubricating portions.

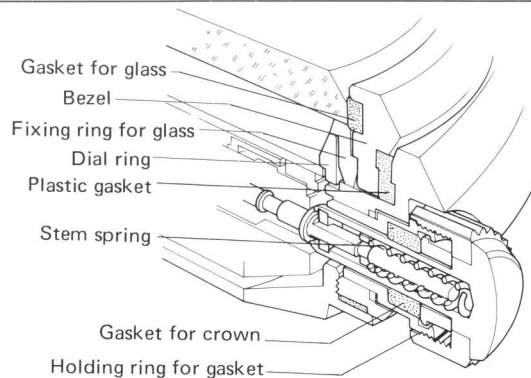
Type of oil	Oil quantity
● Silicon grease 500,000 c.s.	○ Normal quantity ○ Small quantity Never lubricate the portions marked ⊗

## 3. Disassembling and reassembling

### Disassembling procedures

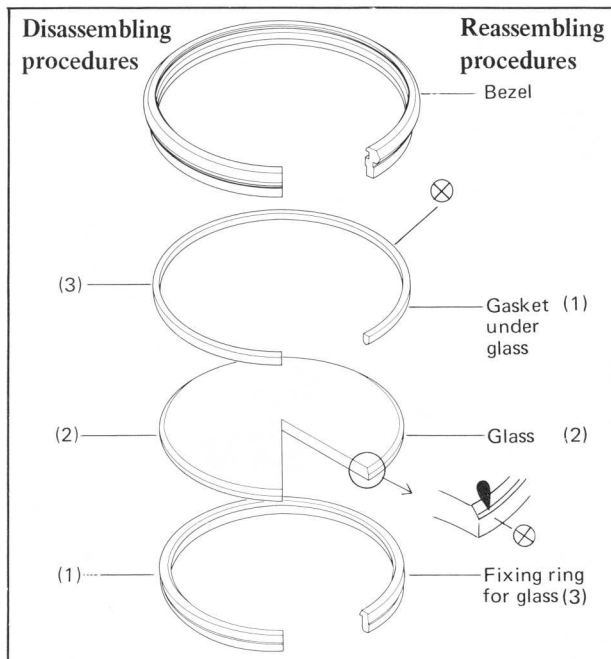


### Reassembling procedures



Disassembling and reassembling procedures of the glass portion.

As for disassembling and reassembling procedures of the glass portion refer to Snap-4.



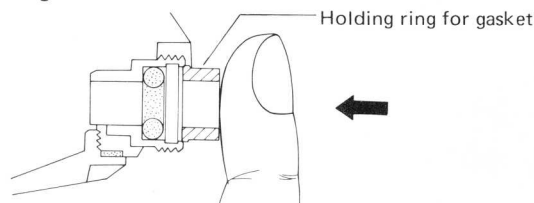
### How to remove the holding ring for gasket

Remove the holding ring for gasket after crushing it with a pliers as shown in the illustration below. (Do not use the holding ring for gasket once used.) When replacing the gasket for crown, the holding ring for gasket must be also replaced with a new one.



### How to reassemble the holding ring for gasket

Be sure to use a new holding ring for gasket. Push it in with fingers or a tweezer.



### Note:

Be careful not to scratch the caseband and the holding ring for gasket.

# Screw-21

## 1. Construction

### 1-1. Construction of Glass Portion

The glass and gasket for glass are pushed to fix to the caseband by the bezel.

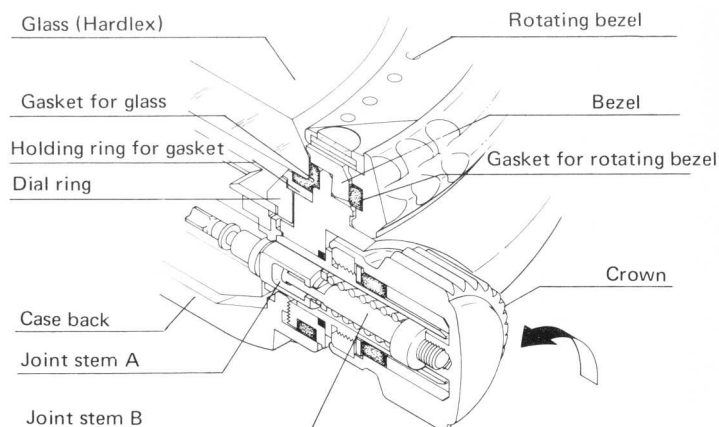
### 1-2. Crown construction

As there are screw-threads in the inner surface of the crown and on the surface of the stem pipe, under normal use the crown must be screwed in. When pulling out the crown, unscrew the crown in the arrow-marked direction. The stem consists of the two parts, and they can be replaced individually.

## 2. Lubricating

The following marks in the diagram indicate the types and quantities of oil to be applied and the lubricating points.

Type of oil	Oil quantity
Silicon grease 500,000 c.s.	Normal quantity Small quantity No lubrication



## 3. Disassembling and reassembling

### < Disassembling procedures >

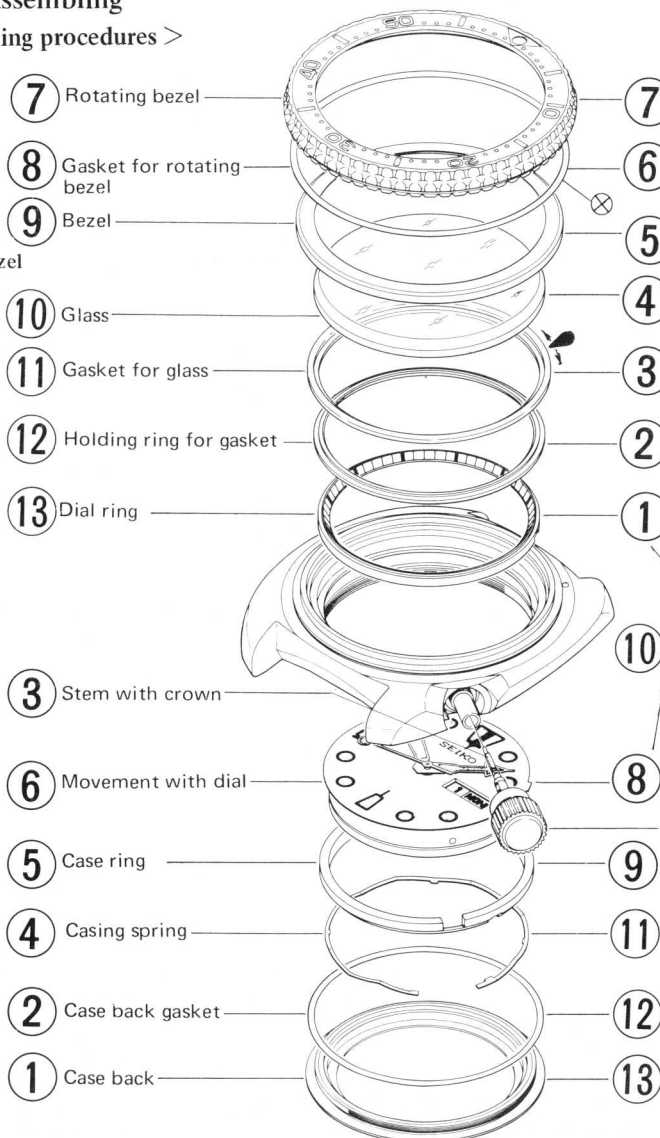
#### Remarks for disassembling

##### How to remove the rotating bezel

- Remove the rotating bezel by pushing the case opener into the opening notch.
- Be careful not to bend the rotating bezel when removing.

##### How to remove the glass

- Remove the bezel by pushing the case opener into the opening notch and then push the glass from inside for disassembling.
- Be careful not to scratch the inner surface of the glass when disassembling.



### < Reassembling procedures >

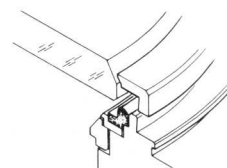
#### Remarks for reassembling

##### How to reassemble the rotating bezel

- After setting the gasket for rotating bezel into the rotating bezel, place the rotating bezel on the caseband and push it in position by the palm.

##### How to set the gasket for glass

- Be sure to apply only a small quantity of silicon grease to the gasket for glass so that it does not come out onto the holding ring for gasket.
- Make sure to set the gasket for glass on the case side.



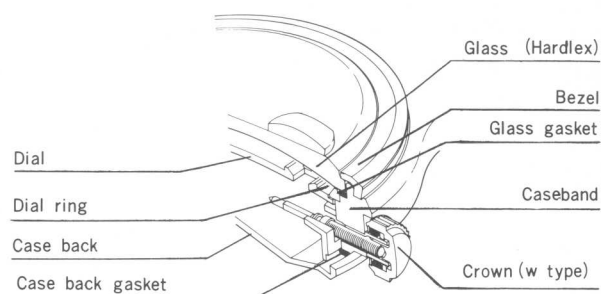
- Set the projection of dial in the groove of dial ring.



- Be sure to push the crown slowly into position so that the gasket for crown may be not scratched.

## 1 Construction

Glass : Hardlex  
Case back : Snap type  
Crown : W type



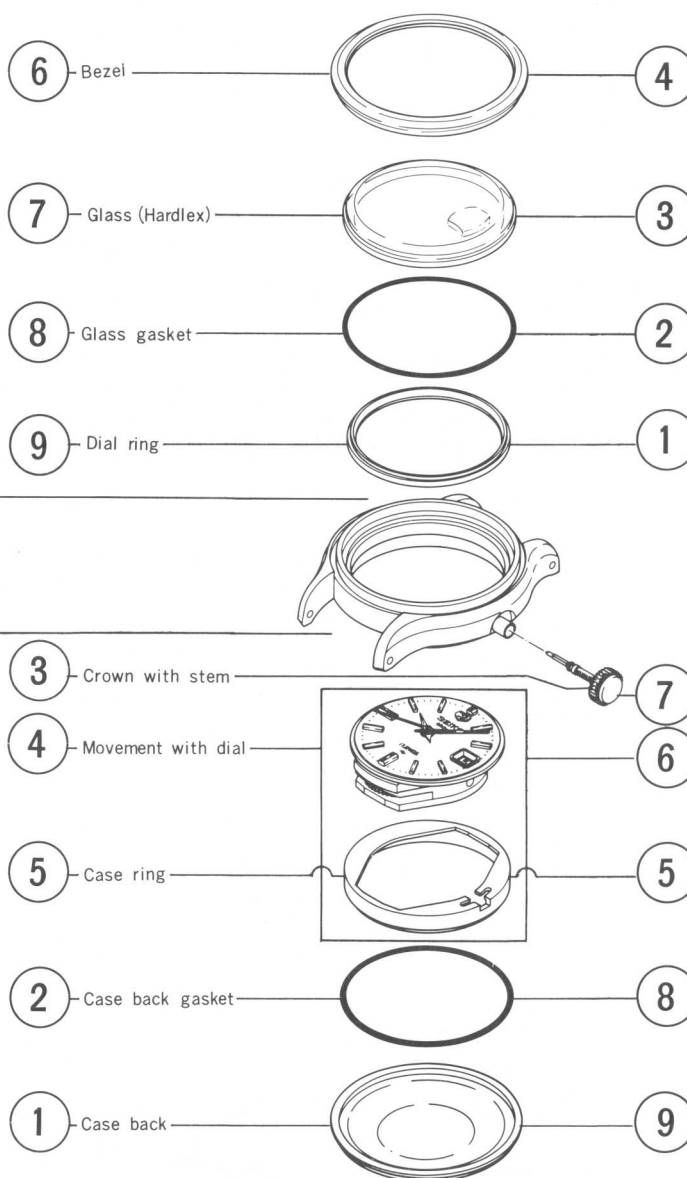
## 2 Disassembling and assembling

### Disassembling procedures

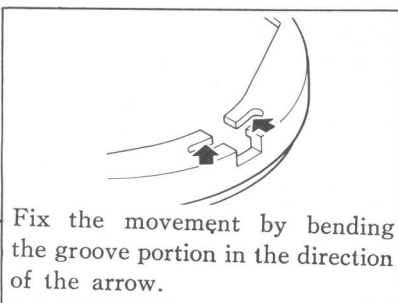
### Assembling procedures

Disassemble only when changing glass. (⑥~⑨)

Disassemble when adjusting or repairing movement. (①~⑤)



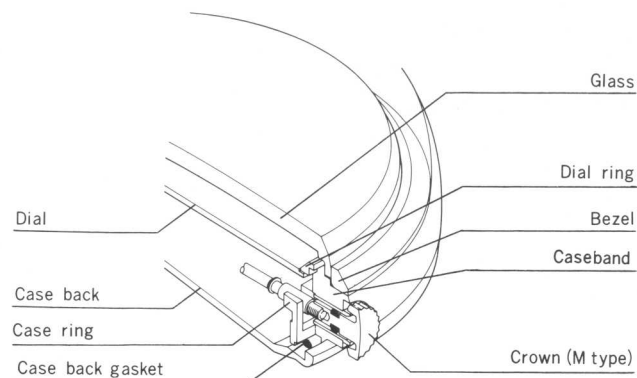
Note) Apply silicon grease 500,000 c.s. to crown gasket.



Note) 1. Replace gasket when scratched or deformed.  
2. Insert gasket into the groove of caseband when reassembling.  
3. Apply silicon grease 500,000 c.s. to gasket.

## 1 . Construction

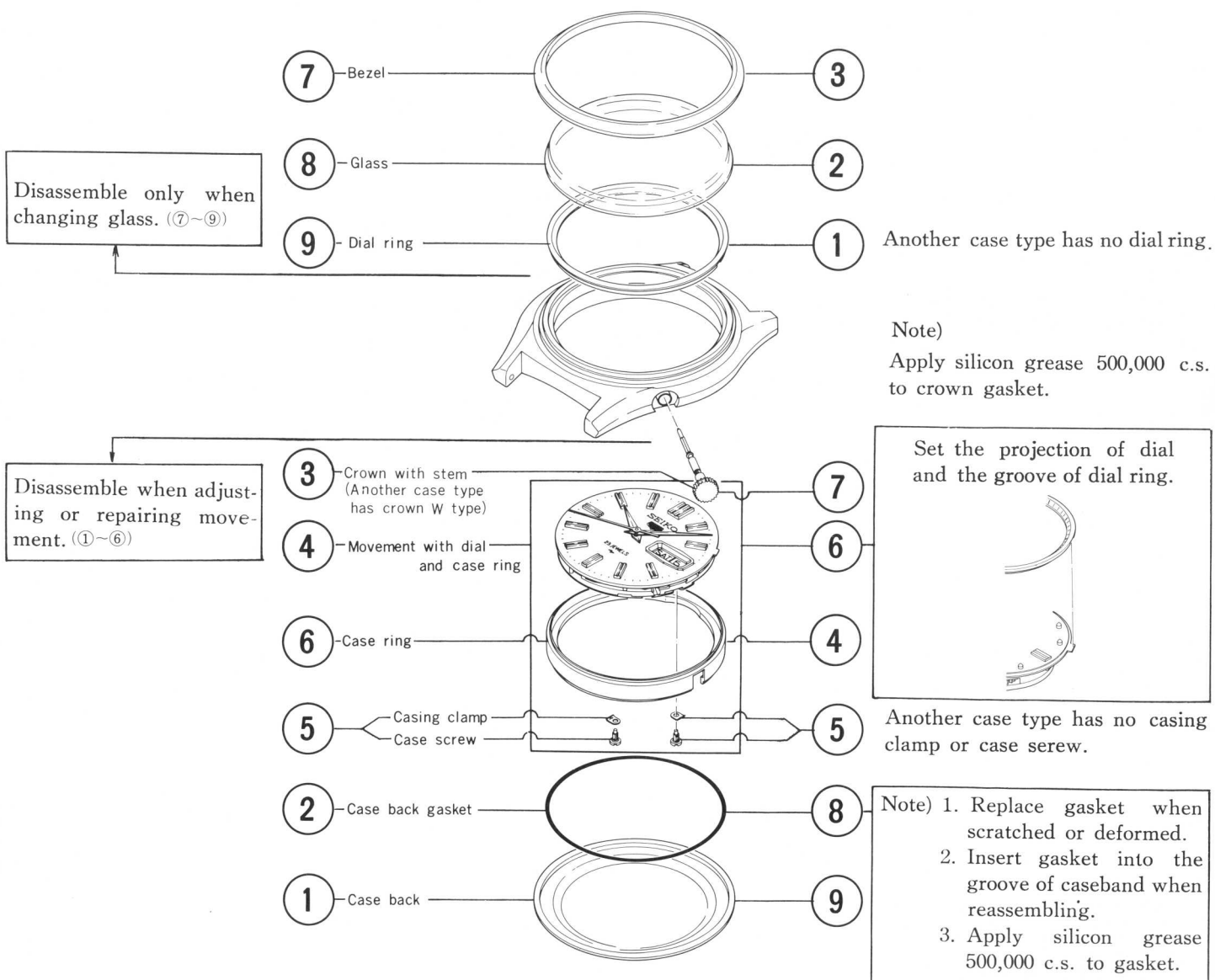
Glass : Hooped type  
Case back : Snap type  
Crown : M type



## 2 . Disassembling and assembling

### Disassembling procedures

### Assembling procedures

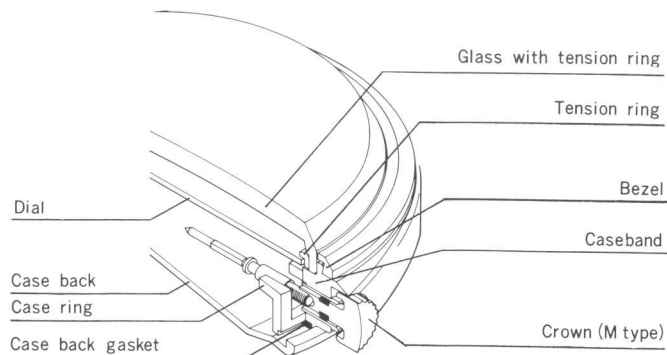


## 1 . Construction

Glass : Tension ring type

Case back : Snap type

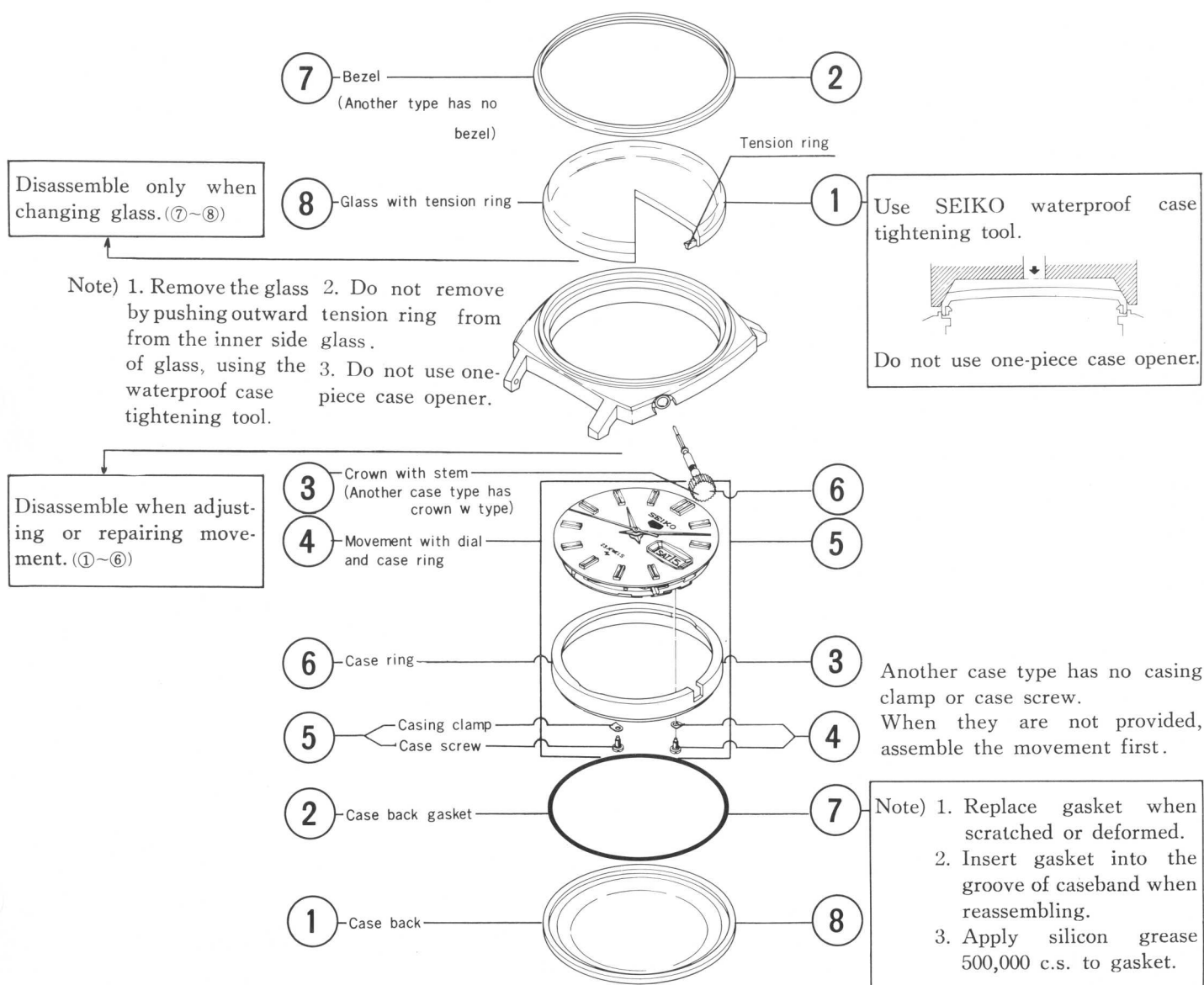
Crown : M type



## 2 . Disassembling and assembling

### Disassembling procedures

### Assembling procedures



# Snap-4

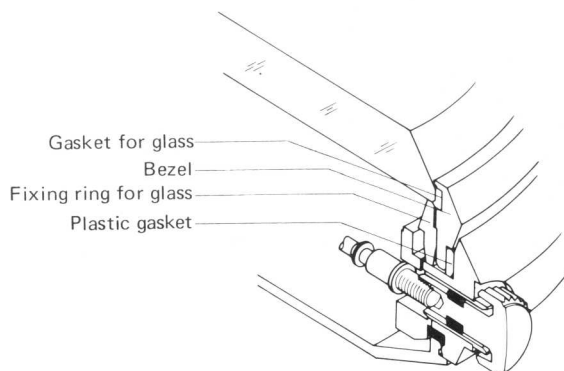
## Casing — *continued*

### 1. Construction

Glass: Hardlex

Case back: Snap or Screw type

Crown: M type

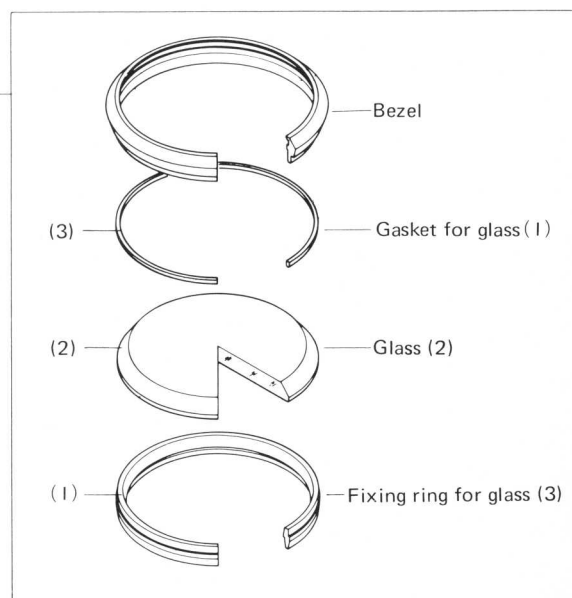
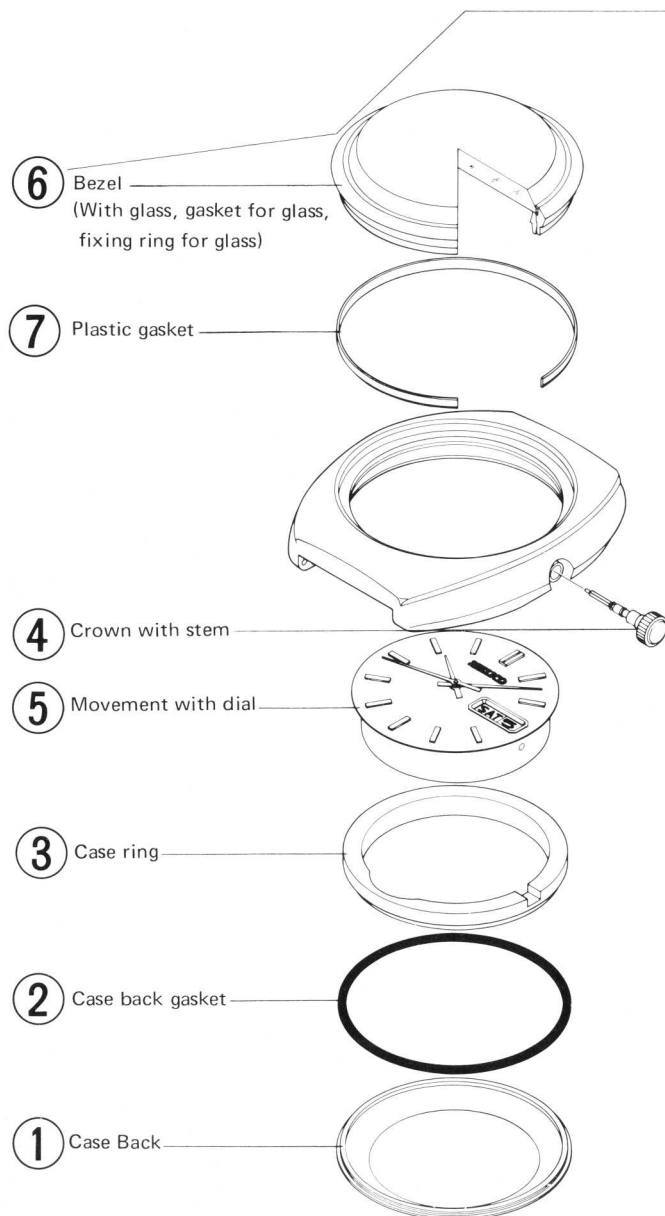


### 2. Disassembling and reassembling

Disassembling procedures Figs. (1) ~ (7)

Reassembling procedures Figs. (7) ~ (1)

Disassembling and reassembling procedures of glass portion



## How to remove the glass

### 1. How to remove the glass with bezel

Use SEIKO water-resistant case tightening tool (S-220) and select a supporting disk with larger diameter than the bezel and a suitable inserting disk (S-160) to fit the fixing ring diameter. ①

Remove the glass from the inner side by pushing the fixing ring for glass. Be careful not to scratch the glass surface.

### 2. How to remove the glass from the bezel

As shown in the illustration, push out the glass with fingers. ②

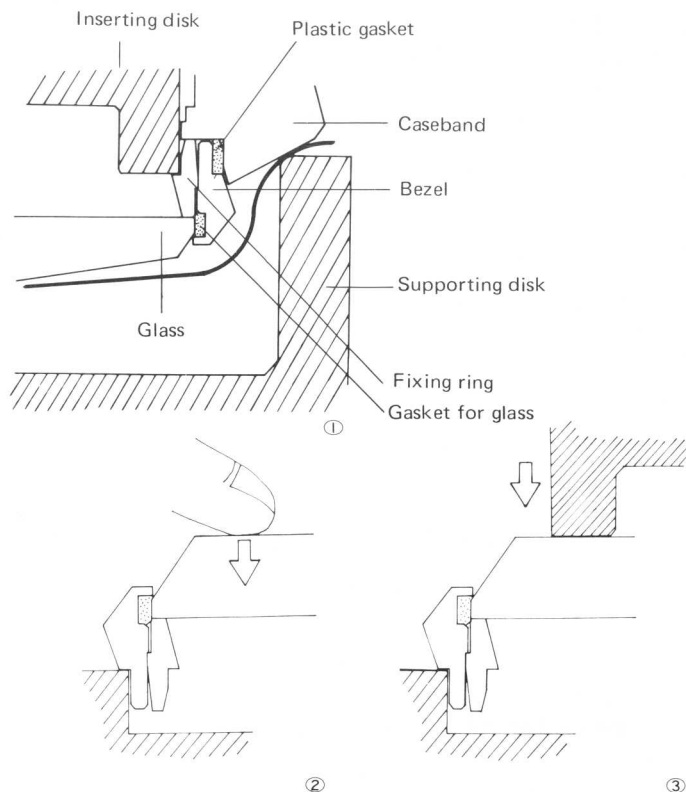
If the glass can not be removed, select the inserting disk with smaller diameter for glass and push the glass down by using the SEIKO water-resistant case tightening tool (S-220) as shown in the illustration. ③

Usually, it is not necessary to remove the gasket for glass. Clean only the contacting portion with the glass.

### 3. How to remove the plastic gasket

Should the plastic gasket adhere to the inner case, raise it slightly by using a thin wooden stick or toothpick with a beveled tip. ④

Be careful not to scratch the gasket. Should the plastic gasket adhere to the bezel, remove it with fingers.



## How to fix the glass

### 1. How to fix the gasket for glass

Usually it is not necessary to remove the gasket, and never use a gasket again, which has been already used. Do not mistake the gasket for glass upper with the lower side. ⑤

### 2. Apply silicon grease around the glass circumference

It facilitates to fix the glass into the bezel. ⑥

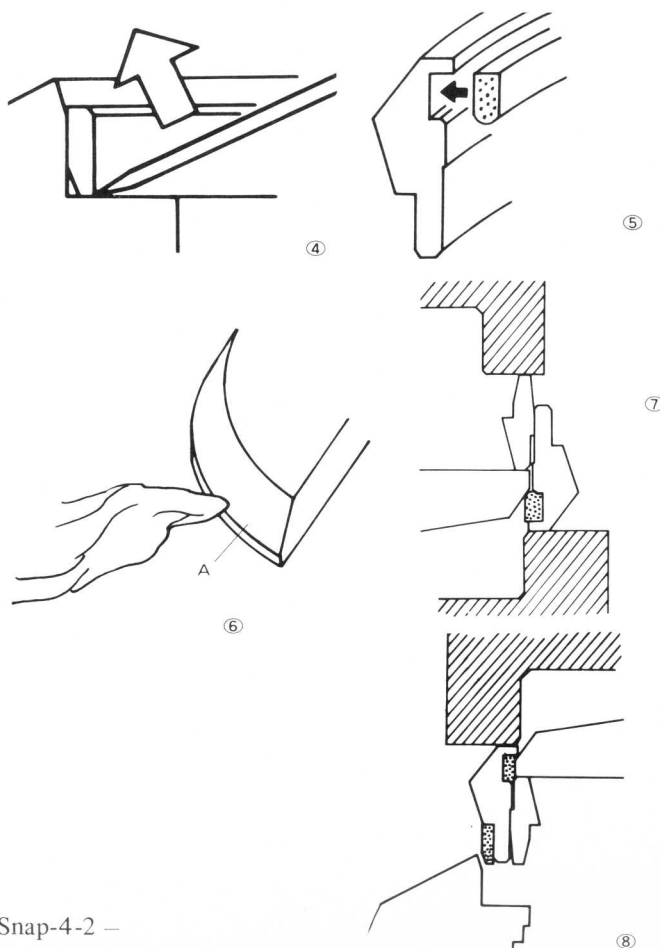
### 3. How to fix the glass to the bezel

After ascertaining the gasket is placed in the groove of the bezel and place the glass on the gasket.

Push the fixing ring for glass by using a suitable inserting disk (S-160) as shown in the illustration. Never push the glass only. ⑦

### 4. How to fix the glass with bezel

Push the bezel in the case body by using the SEIKO water-resistant case tightening tool (S-220) as shown in the illustration. ⑧



# Snap-5

## 1. Construction

### 1-1 Construction of Glass Portion

The gasket for glass is pushed to the caseband by the glass which is supported by the panel cover.

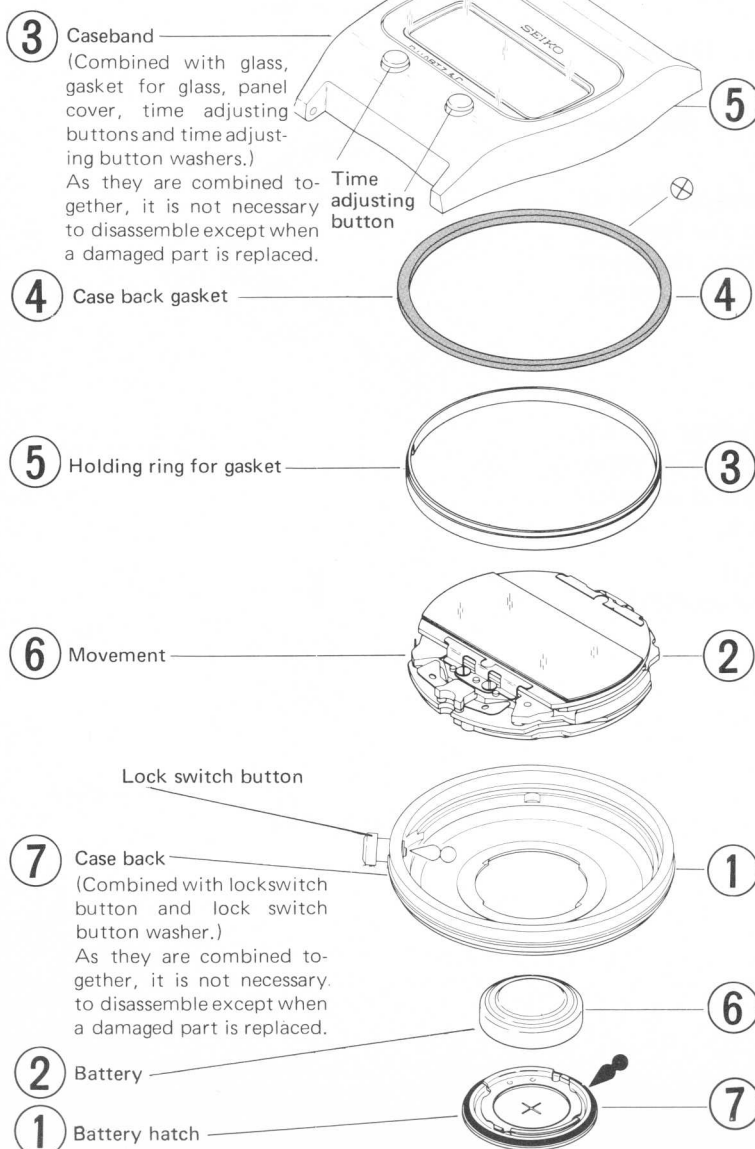
## 2. Lubricating

The following marks in the diagram indicate the types and quantities of oil to be applied and the lubricating portions.

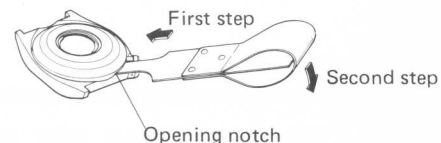
Type of oil	Oil quantity
○ SEIKO Watch Oil S-6	○ Normal quantity
● Silicon grease 500,000 c.s.	○ Small quantity
	Never lubricate the portions marked ⊗

## 3. Disassembling and reassembling

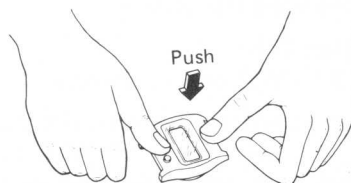
### <Disassembling procedures>



### How to remove the caseband



### How to snap close the caseband



#### Remarks:

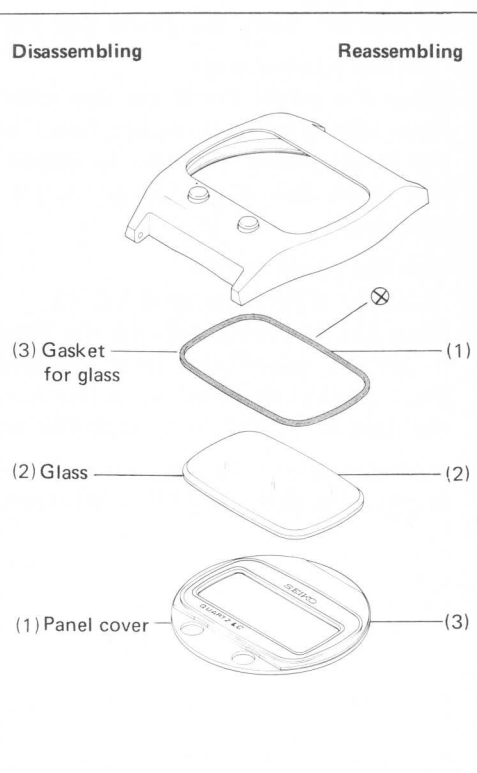
Be sure that the gasket is fixed in the groove correctly before the caseband is snapped closed.

- Be careful not to push the glass.

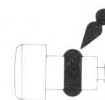
### <Reassembling procedures>

#### Disassembling and reassembling procedures of the glass portion

- Refer to Page 2.



#### Remarks:



When the buttons are replaced with new ones, reassemble them after lubricating the portions as illustrated above.

# Snap-5

## 3-1 How to remove the glass

Remove the glass with the inserting disk which is contained in the S-160 disk unit.

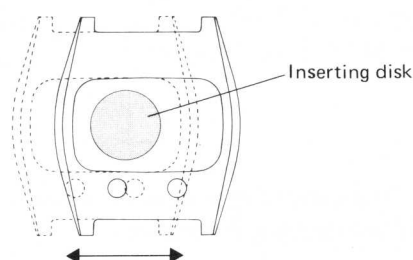
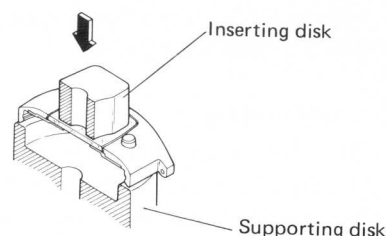
Inserting disk:

$\phi$  16.5 mm (diameter) or S-161 specially designed for removing the glass

Supporting disk:

$\phi$  30.0 ~ 36.0 mm (diameter)

When the inserting disk with the diameter of  $\phi$  16.5 is used, do not push the glass in the center but rather left and right with the inserting disk while moving the caseband. This will enable to remove the glass without damaging the panel cover.



## 3-2 How to reassemble the glass

### 1) Fix the gasket for glass.

Fix the gasket in the groove. (Do not apply silicon grease on it.)

Be careful with the front and back of the gasket.

### 2) Set the glass

Be careful with the front and back of the glass.

### 3) Set the panel cover

Place the panel cover on the caseband so that its time adjusting buttons are fixed into the holes of the panel cover. Be sure to check from the front side that the panel cover is set in the correct position.

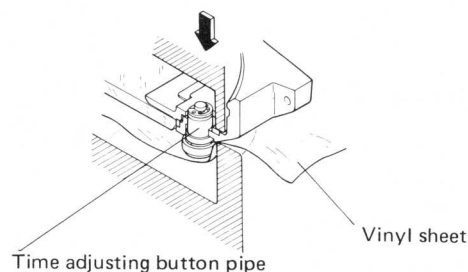
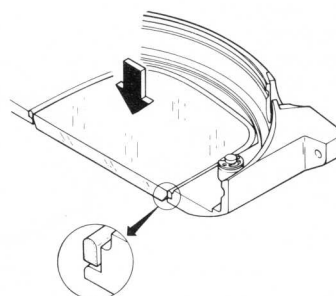
### 4) Set the panel cover

(Use the tightening tool S-220)

Place the inserting disk on the panel cover so that it doesn't touch the time adjusting button pipe. Place a vinyl sheet between the watch and supporting disk so as not to scratch the watch.

Inserting disk:  $\phi$  26.5 mm (diameter)

Supporting disk:  $\phi$  27.0 ~ 30.0 mm (diameter)



# Snap-6

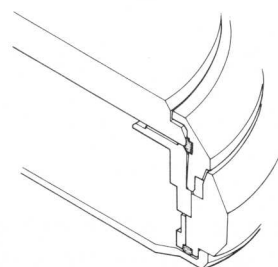
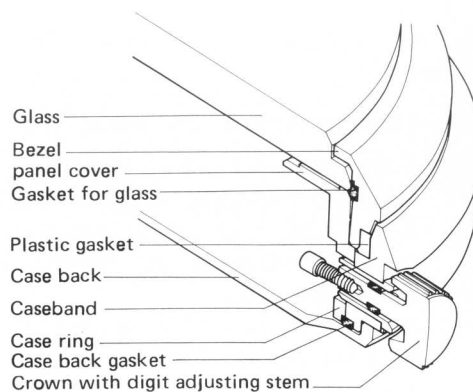
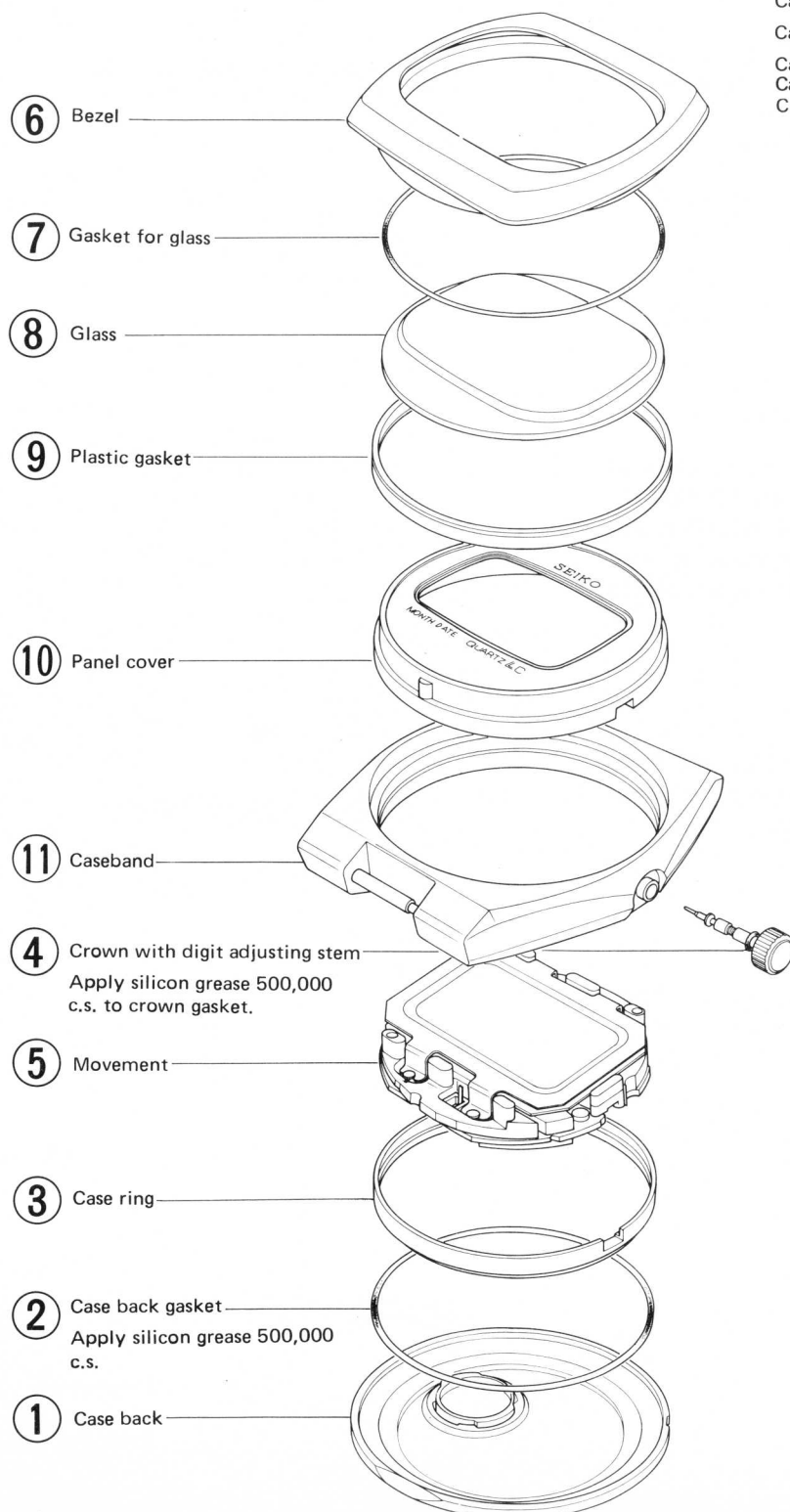
## 1. Construction of glass portion

The glass is pushed to the bezel by the gasket for glass and it is also pushed up by the panel cover.

## 2. Disassembling and reassembling

Disassembling procedures Figs. ① ~ ⑪

Reassembling procedures Figs. ⑪ ~ ①



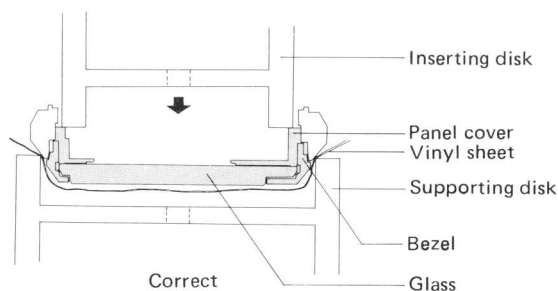
# Snap-6

## 3. How to remove and reassemble the glass and bezel

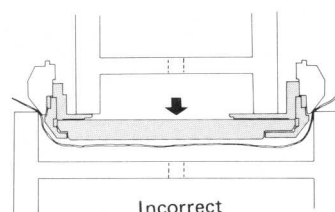
### 3-1 How to remove the bezel

- (1) Place the caseband on the supporting disk and the inserting disk which is contained in the S-160 disk unit on the panel cover as shown in the illustration and remove the glass with combined parts.

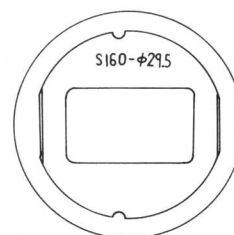
Be sure to place the groove of the inserting disk on the digit adjusting stem pipe of the caseband.



Be careful not to push the inside surface of the panel cover directly by the inserting disk or it is damaged.

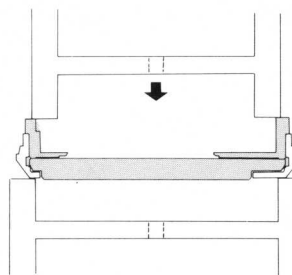


- (2) The size of the inserting disk to be used is inscribed on the back of the panel cover. Be sure to select the inserting disk which is the same size as inscribed on the back of the panel cover. (See the illustration on the right)



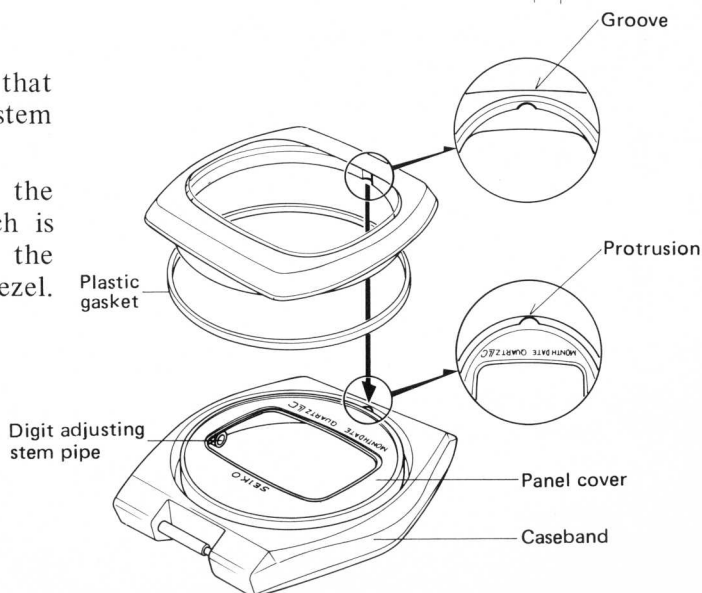
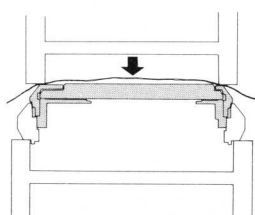
### 3-2 How to reassemble the glass

Fix the gasket for glass to the bezel, and push the glass into the bezel by pushing the panel cover as shown in the illustration.



### 3-3 How to reassemble the bezel

- (1) Place the panel cover on the caseband so that its groove is fixed on the digit adjusting stem pipe.
- (2) Place the bezel with plastic gasket on the panel cover so that its protrusion which is indicated in the illustration is fixed in the groove of the bezel and push in the bezel.



# Square-type-1

## 1. Construction

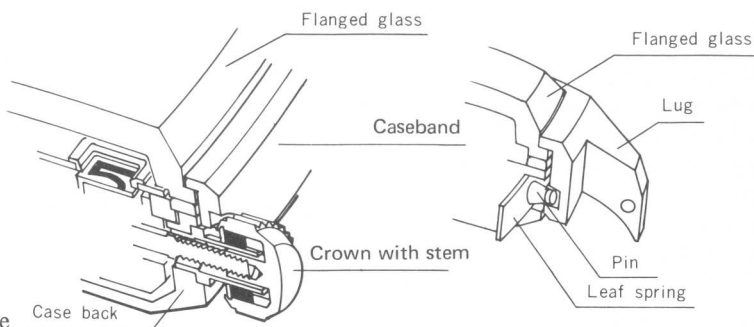
**Case:** Two-piece case (consisting of a combined caseband and bezel and a back)

**Glass:** Flanged glass

**Crown:** W type

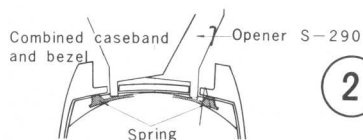
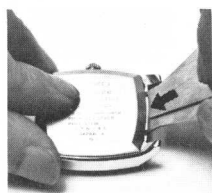
### Feature

By pressing four pins on the leaf springs attached to the case back into cavities in the caseband, the caseband is fastened to the case back. Since the flanged glass and glass gasket are depressed at the same time, a watertight condition is completely maintained.



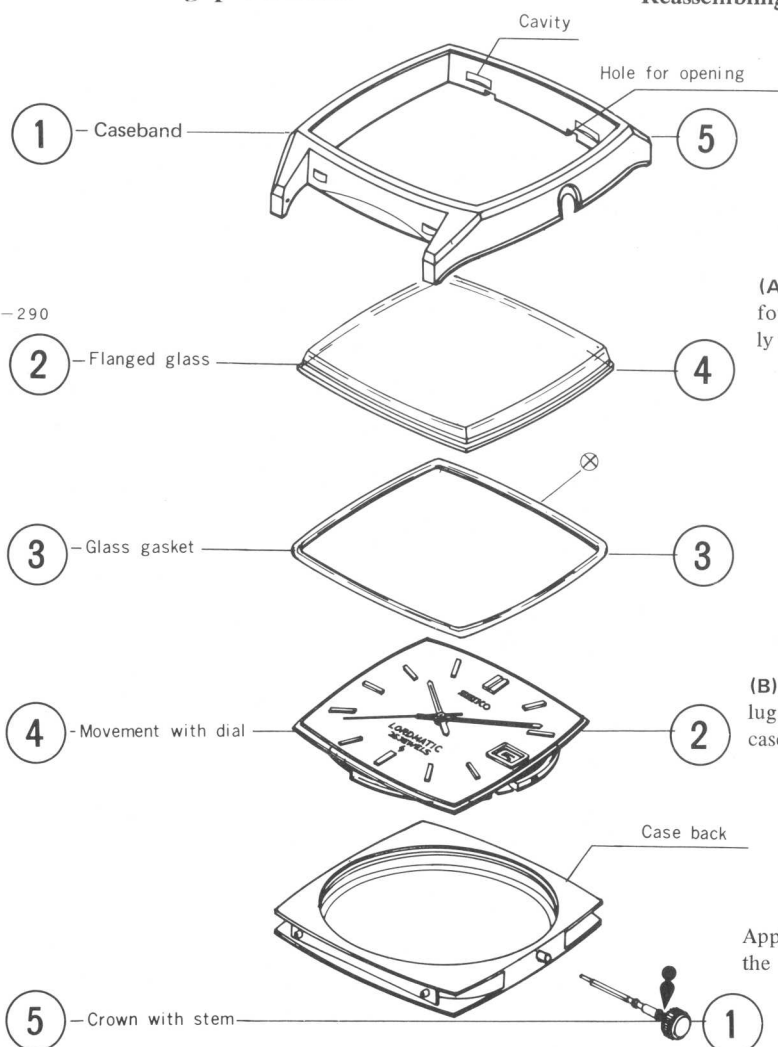
## 2. Disassembling and Reassembling

### Disassembling procedures

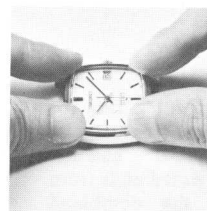


As shown in the photo, while pushing the glass, push down the leaf spring with the opener S-290 (or screwdriver) inserted in the hole for opening, in turn, thereby detaching the caseband and the case back.

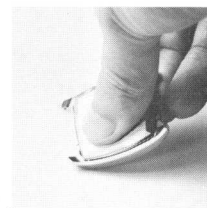
Pull out the crown, using a pair of tweezers to depress the lever for unlocking stem.



### Reassembling procedures



(A) Fit the caseband by pressing the four portions of the lug surface uniformly with the finger tips.

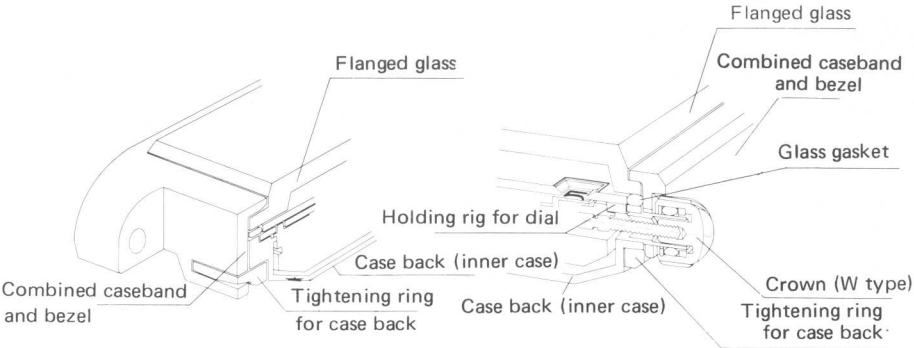


(B) Further, press hard over the every lug with fingers, and make sure that the caseband is securely fitted.

Apply silicon grease (500,000 c.s.) to the crown gasket.

1. Construction

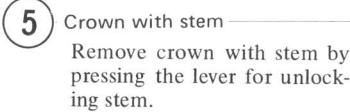
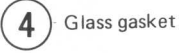
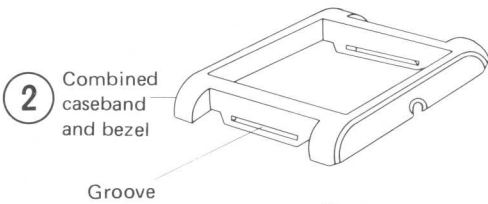
Case: Two-piece case (consisting of a combined caseband and bezel and a back)  
Glass: Flanged glass  
Crown: W type  
Feature  
By turning the two projected ends of the tightening ring for case back in the grooves at 6 and 12 o'clock positions of the combined caseband and bezel, a watertight condition is completely maintained, as it simultaneously presses the case back, glass gasket, and flanged glass.



2. Disassembling and assembling

Disassembling procedures

Turn the tightening ring for caseback counter-clockwise approximately 30° and detach two projected ends from grooves on the combined caseband and bezel.



Assembling procedures



When installing the combined caseband and bezel: turn the tightening ring for case back clockwise after setting it on the case back.



Be careful that the gasket does not emerge from the dial or does not protrude from the case.



Do not apply silicon grease to the glass gasket.



Dowel (set this on the dial groove)



Apply silicon grease (500,000 c.s.) to the crown gasket.



# Square-type-3

# Casing-continued

## 1. Construction

Case: Two-piece case  
(consisting of a combined caseband and bezel and a back)

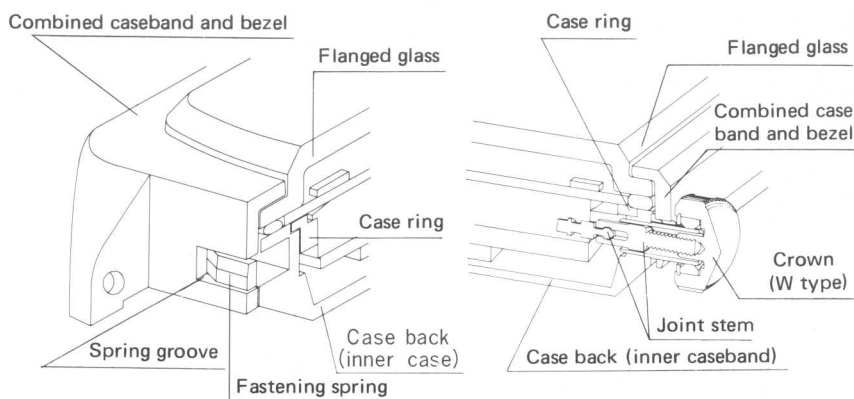
Glass: Flanged glass

Crown: W type

### Feature

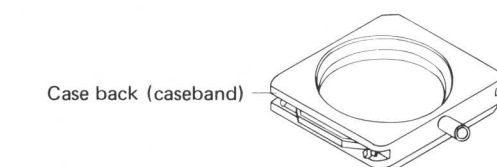
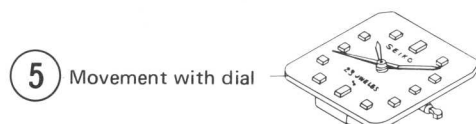
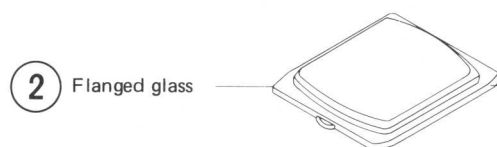
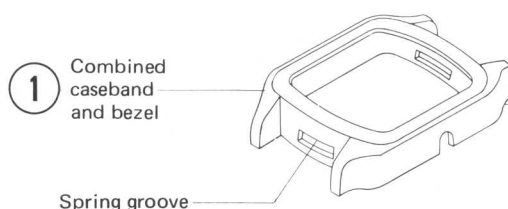
By securing a fastening springs installed on the case back (inner caseband) in the spring grooves at 6 and 12 o'clock positions of the combined caseband and bezel, a water resistant condition is completely maintained, as it simultaneously presses the case back, glass gasket, and flanged glass.

## 2. Disassembling and assembling



### Disassembling procedures

- 1) Push the fastening spring by the tip of a driver.
- 2) Remove the combined caseband and bezel while alternately pushing up the case lugs in the directions of 6 and 12 o'clock.



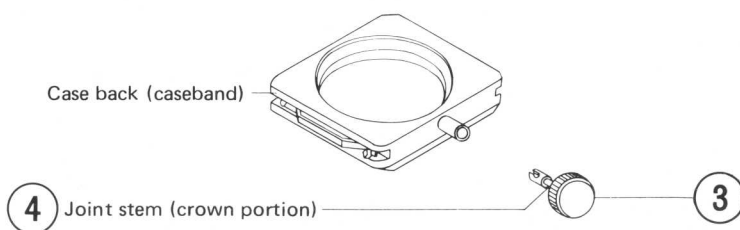
### Assembling procedures

Insert one of fastening springs in either spring groove; next, push another spring in the groove by using a driver.

Confirm that springs are correctly fastened in grooves by depressing the glass upper surface.

When the combined caseband and bezel moves, this indicates insufficient fastening.

Carefully set the glass gasket to prevent its emerging from the dial or protruding from the case. It is unnecessary to apply the silicon grease.



Apply silicon grease (500,000 c.s.) to the crown gasket.





# Square-type-4 (Non water-resistant)

## 1. Construction

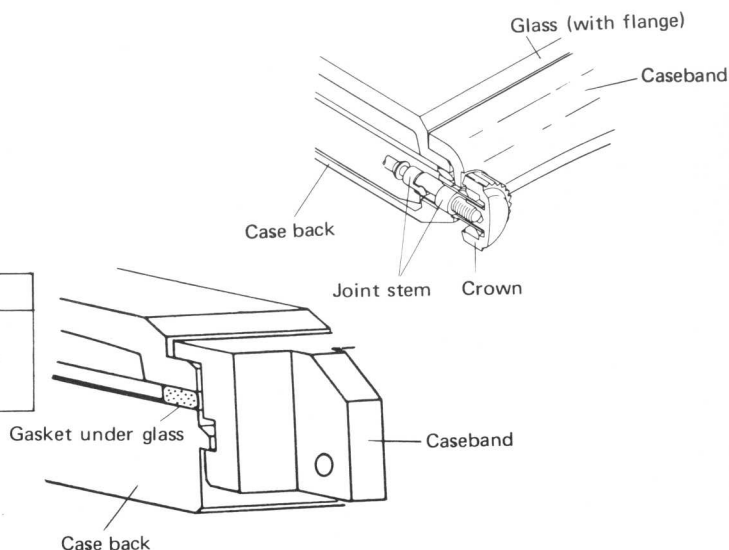
The glass and gasket are fixed by matching the inner sleeve of the case back with the groove of the caseband.

## 2. Lubrication

The following marks in the diagram indicate the types and quantities of oil to be applied and the lubricating points:

Types of Oil	Oil Quantity
 Silicon grease 500,000 c.s.	 Liberal quantity  Normal quantity  No lubrication

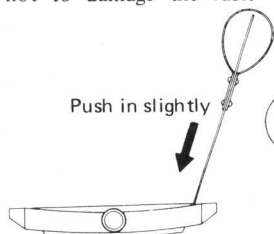
## 3. Disassembling and assembling



### Note

#### • How to open the case

- (1) Place the watch on a soft cloth. While holding the glass side down, the case back can be removed by pushing the case opener into the opening notch with the angle as shown in the illustration. Push the opener in gently so as not to damage the case.



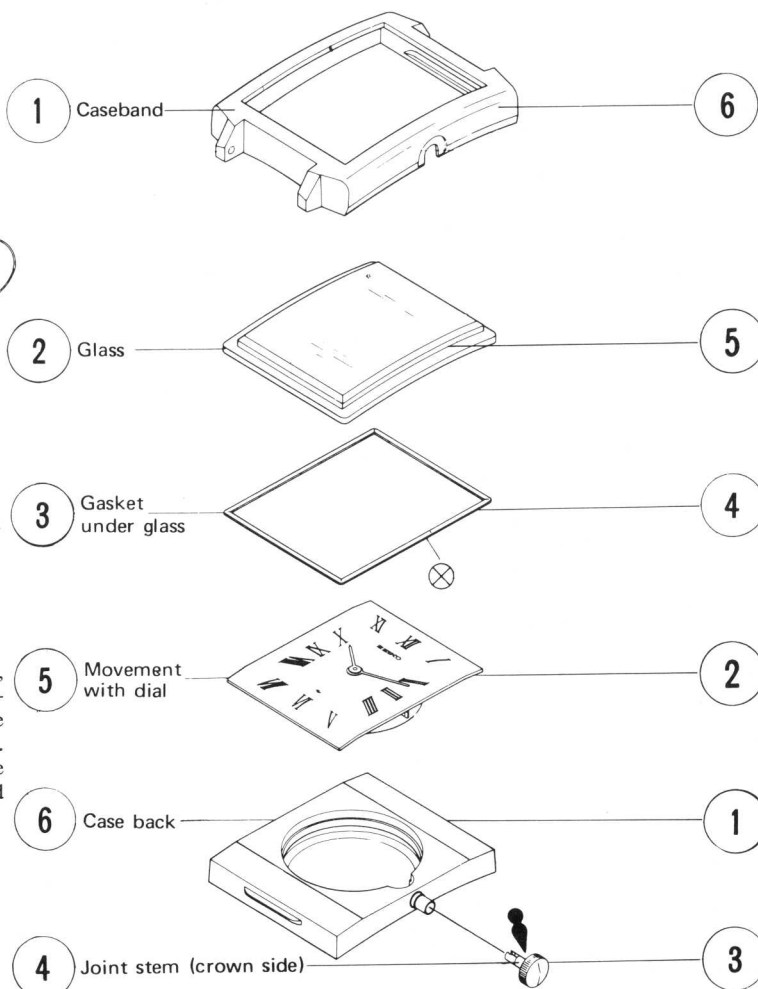
- (2) The case back can now be removed by pushing it from the glass side.

### Note

#### • How to remove the movement

Turn the watch upside down, turn the crown counter-clockwise slowly and remove the movement from the case back. Be careful not to let the movement fall on a hard surface.

### Disassembling procedures



### Assembling procedures

### Note

After inserting the crown (with the joint stem) into the stem pipe, turn it counter-clockwise to a click, and then push the crown in.




# Square-type-5

## 1. Construction of Glass Portion

The case back, glass, gasket under glass, bezel and dial ring are fixed by matching the leaf springs of the case back, which are located around the 6 o'clock and 12 o'clock positions, with the grooves of the caseband.

## 2. Lubricating

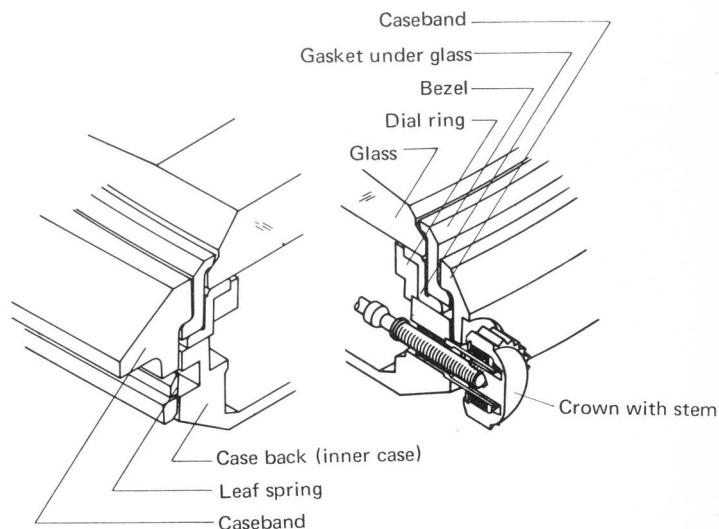
The following marks in the diagram indicate the type and quantities of oil to be applied and the lubricating portions.

Type of oil	Oil quantity
 Silicon grease 500,000 c.s.	 Normal quantity Never lubricate the portions marked 

## 3. Disassembling and reassembling

### Note:

Remove the caseband by pushing the leaf spring located at the 6 o'clock and 12 o'clock positions with a screw driver or tweezers.



### Disassembling procedures

① Caseband

② Bezel

③ Glass

④ Gasket under glass

⑤ Dial ring

⑦ Movement with dial

Case back

⑥ Crown with stem

### Reassembling procedures

⑦

⑥

⑤

④

③

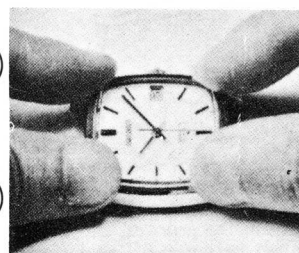
①

②

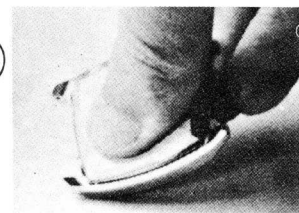
### Note:

#### How to reassemble the caseband

A. Mount the caseband on the case back so that the leaf springs fix into the grooves of the caseband uniformly.



B. Depress the case back (inner case) hard with fingers to fix into the caseband as shown in the photo below.



C. After reassembling the caseband, check to be sure that the leaf springs of the case back are set into the grooves completely.

# Square-type-6

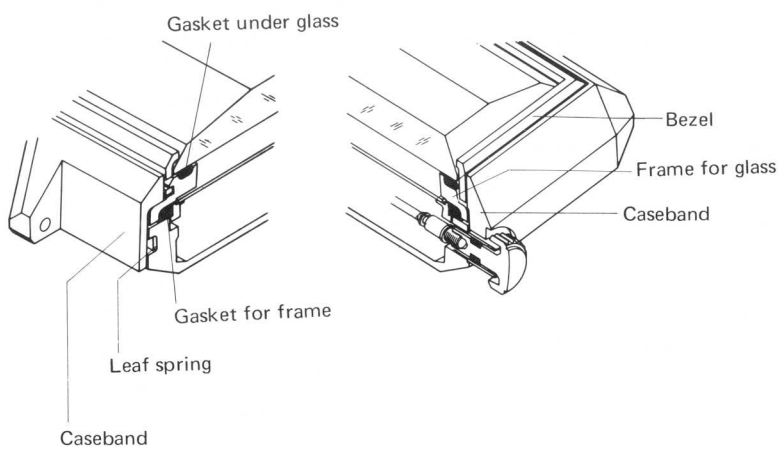
## 1. Construction of Glass Portion

By matching and pressing the four leaf springs of the case back into the four grooves of the caseband, the caseband and case back are fixed, and at the same time the glass (combined with glass, bezel and frame for glass) and the gasket for frame are fixed to the case back by the caseband.

## 2. Lubricating

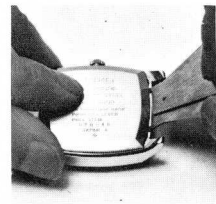
The following marks indicate the type and quantities of oil to be applied and lubricating portions.

Type of oil	Oil quantity
Silicon grease 500,000 c.s.	Normal quantity Never lubricate the portions marked

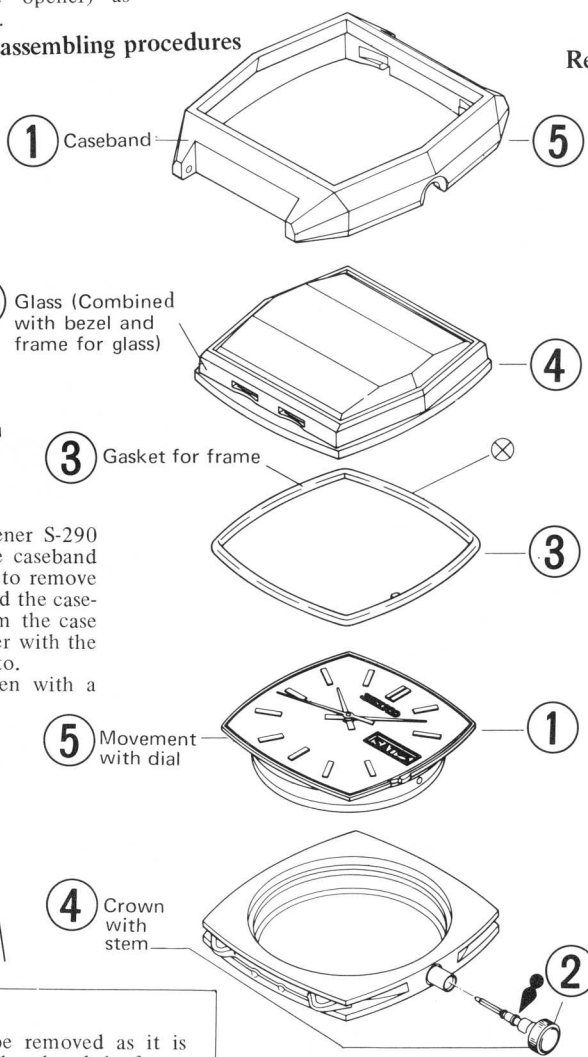


## 3. Disassembling and reassembling

**Note:**  
Remove the caseband from the case back with the opener S-290 (SEIKO square-type water-resistant case opener) as shown in the photo below.

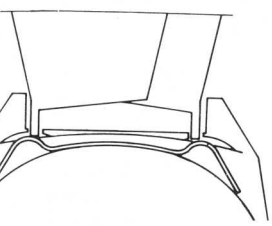


### Disassembling procedures



Insert the tips of the opener S-290 into the two holes of the caseband and push the leaf springs to remove them from the grooves, and the caseband can be removed from the case back by pushing the opener with the angle as shown in the photo.

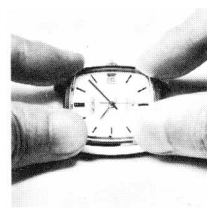
**Remarks:** Do not pry open with a case opener.



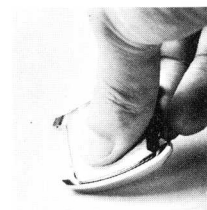
**Note:**  
\*1. The glass cannot be removed as it is combined with the bezel and the frame for glass. Do not pry open with a case opener.

### Reassembling procedures

A. Place the case back on the desk and mount the caseband on the case back. Push the four corners of the caseband evenly with fingers.



B. Push the case back hard with fingers so that the caseband is fixed to the case back firmly as shown in the photo.



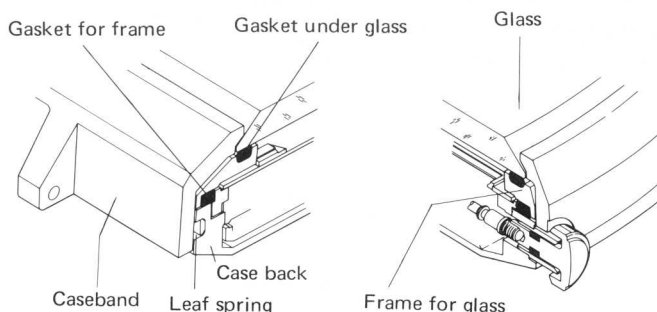
**Note:**  
When reassembling, be careful that the gasket is not on the holding ring for dial or it is not out of the case.

# Square-type-7

## 1. Construction

### 1-1 Construction of Glass Portion

By matching and pressing the four leaf springs of the case back into the four grooves of the caseband, the caseband and case back are fixed, and at the same time the case back, glass, gasket under glass, frame for glass and gasket for frame are fixed to the case back by the caseband.



## 2. Lubricating

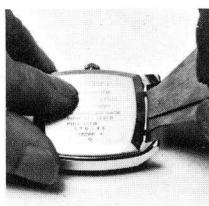
The following marks indicate the type and quantities of oil to be applied and lubricating portions.

Type of oil	類	Oil quantity
● Silicon grease 500,000 c.s.	○	Normal quantity
	⊗	Never lubricate the portions marked ⊗

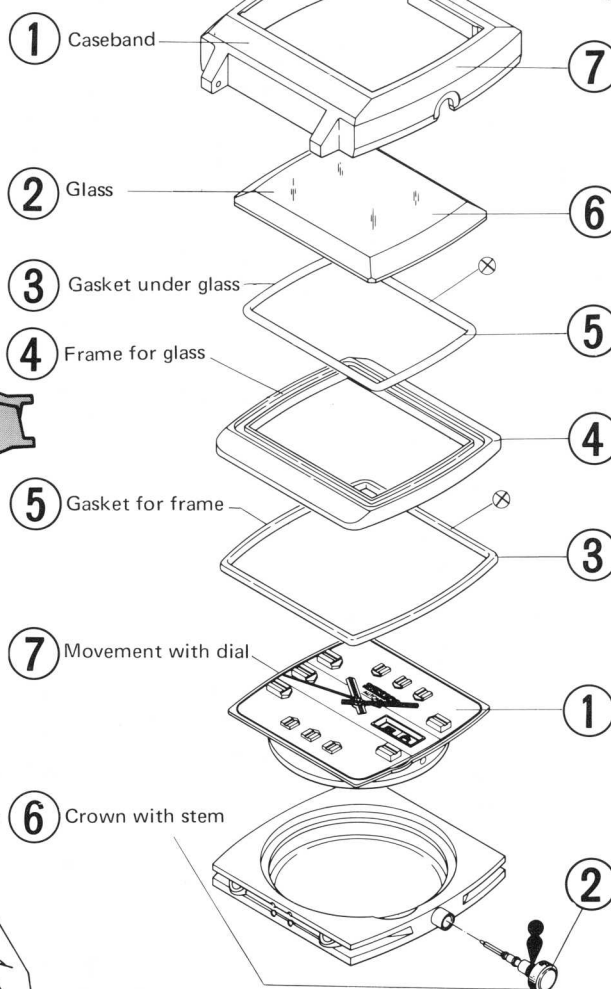
## 3. Disassembling and reassembling

### Note:

Remove the caseband from the case back with the opener S-290 (SEIKO square-type water-resistant case opener).



### Disassembling procedures



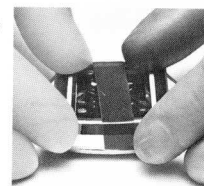
### Reassembling procedures

In order to tighten the case, follow the procedures below.

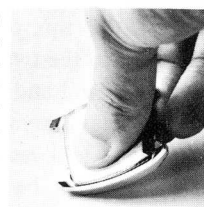
A. Stick cellophane tape on the caseband (from the 3 o'clock position to the 9 o'clock position).



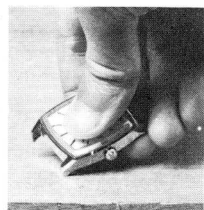
B. Place the glass from the inside of the caseband.



C. After reassembling the glass with the caseband, the caseband is placed on the case back, and push the four corners of the caseband evenly in order to fix it to the case back firmly.



D. Push the four corners of the glass with fingers so that the caseband is fixed to the case back firmly as shown in the photo.



### Note:

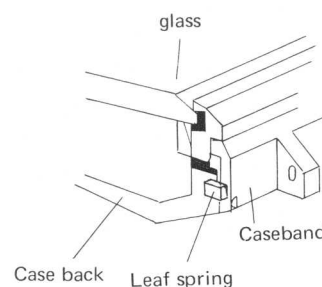
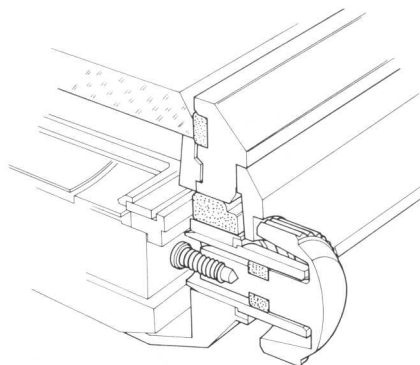
When reassembling, be careful that the gasket is not on the holding ring for dial or it is not out of the case.

After removing cellophane tape, clean the caseband and glass with a cloth moistened with alcohol.

# Square-type-8

## 1. Construction of Glass Portion

The case back is set to the caseband by fixing the leaf springs of the case back into the grooves of the caseband. The glass is fixed by the fixing ring for glass and by the caseband, having the glass side gasket in the upper inside groove of the caseband.



## Lubricating

The following marks in the diagram indicate the type and quantities of oil to be applied and the lubricating portions.

Type of oil	Oil quantity
● Silicon grease 500,000 c.s.	○ Normal quantity
	○ Small quantity
	Never lubricate the portions marked ⊗

## Disassembling and reassembling

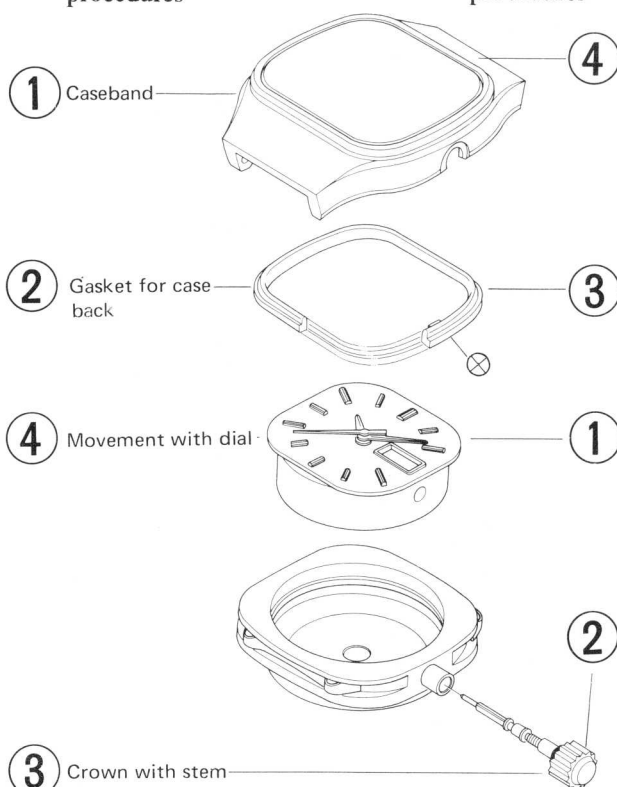
### Note:

Remove the caseband from the case back with the opener S-290 (SEIKO square-type water-resistant case opener).



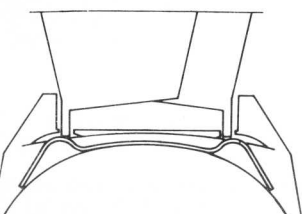
### Disassembling procedures

### Reassembling procedures

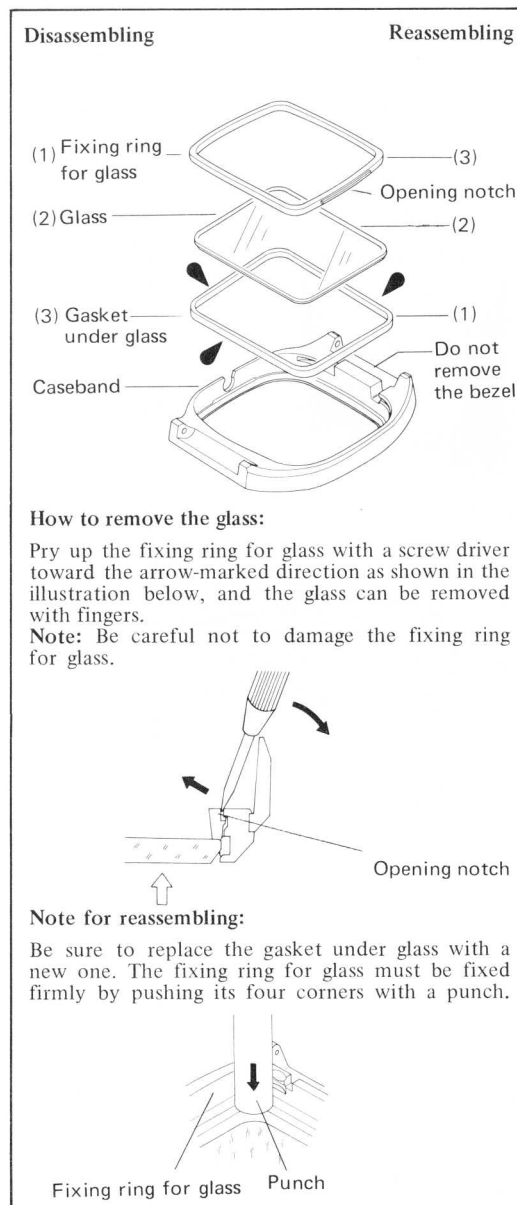


Insert the tips of opener S-290 into the two holes of the caseband and push the leaf springs to remove them from the grooves, and the caseband can be removed from the case back by pushing the opener with the angle as shown in the photo.

**Remarks:** Do not pry open with a case opener.



## Disassembling and reassembling procedures of glass portion



Reassembling procedures of the caseband and the case back are the same as Square-type-1 and Square-type-7.




# Square-type-9

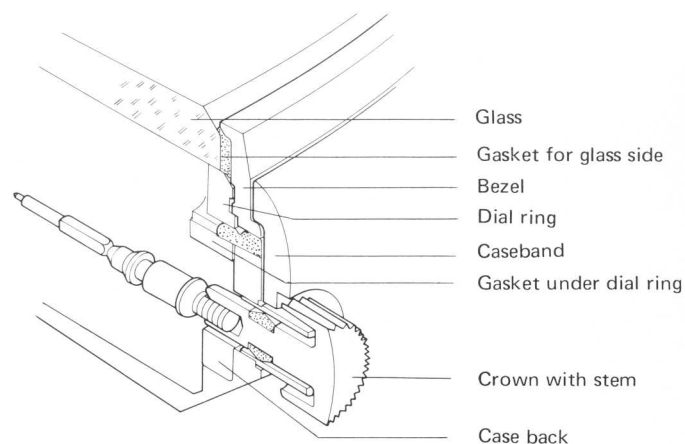
## 1. Construction of Glass Portion

The glass is fixed to the bezel with the gasket for glass side and is pushed up to the bezel with the dial ring which is fixed with the caseband.

## 2. Lubricating

The following marks in the diagram indicate the type and quantities of oil to be applied and the lubricating portions.

Type of oil	Oil quantity
 Silicon grease 500,000 c.s.	 Normal quantity
	Never lubricate the portions marked 



## 3. Disassembling and reassembling

### How to remove the caseband

Remove the caseband while pushing the leaf spring located at the 6 o'clock and 12 o'clock position with a screw driver or a tweezer.

### Remarks:

The glass portion is combined with the glass, bezel, gasket for glass side and dial ring.

When replacing the glass, be sure to replace the glass portion with new one.

### Disassembling procedures

### Reassembling procedures

