

BULOVA WATCH COMPANY, Inc.

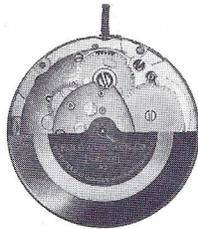
TECHNICAL BULLETIN



DIAL SIDE



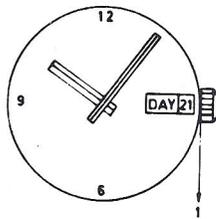
TRAIN SIDE



BULOVA MODEL 11BSACB

Automatic, Sweep Second
Instant Change, Date and Day

Crown Positions



To wind the watch push crown in all the way

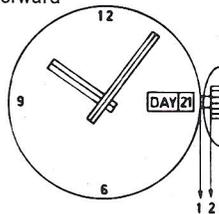
Crown Position 1. Manual winding

Specifications

11½ ligne lever escapement
Diameter of plate 25.60 mm
Total running time 50 hrs.
Screwless Nickel Balance
21,600 Beats per hour
Adjustable stud holder
Intermediate crown position to
instantly correct day and date
KIF Ultraflex shock resistant device
Angle of Lift 52 degrees

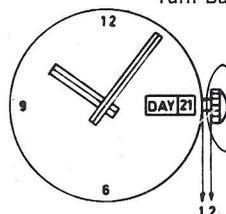
Changing the date

Turn Forward



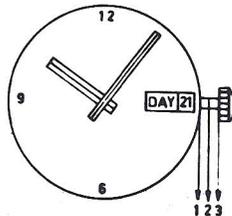
Changing the day

Turn Backward



To change the calendar
pull crown into intermediate position

Crown Position 2. Intermediate calendar



To set the hands pull crown out as far as it will go

Crown Position 3. Setting the hands

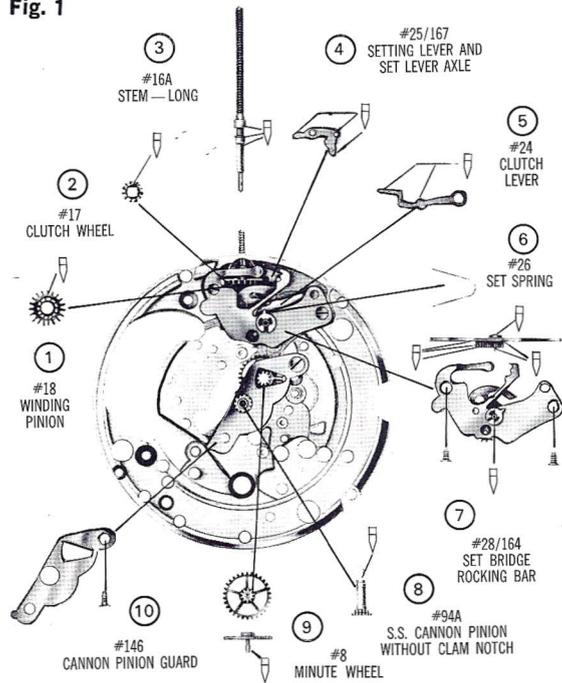
Designation of Type

Caliber	Description	Height
11 BSACB	Automatic, sweep second, instant change, date and day	5.95

FOLLOW THE CIRCLED NUMBERS TO ASSEMBLE THE PARTS IN PROPER SEQUENCE.

How to Assemble the Basic Setting Mechanism

Fig. 1

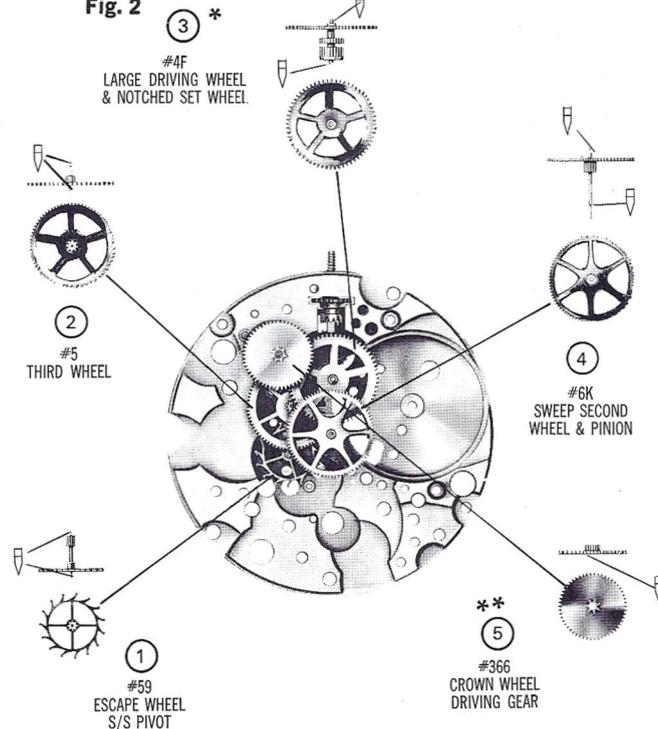


Note on Stem Replacement

To prevent damage to parts, ease the stem into position with a turning motion. This causes the square of the stem to line up with the square of the clutch and ensures the stem's proper entry.

How to Assemble the Train Wheels

Fig. 2



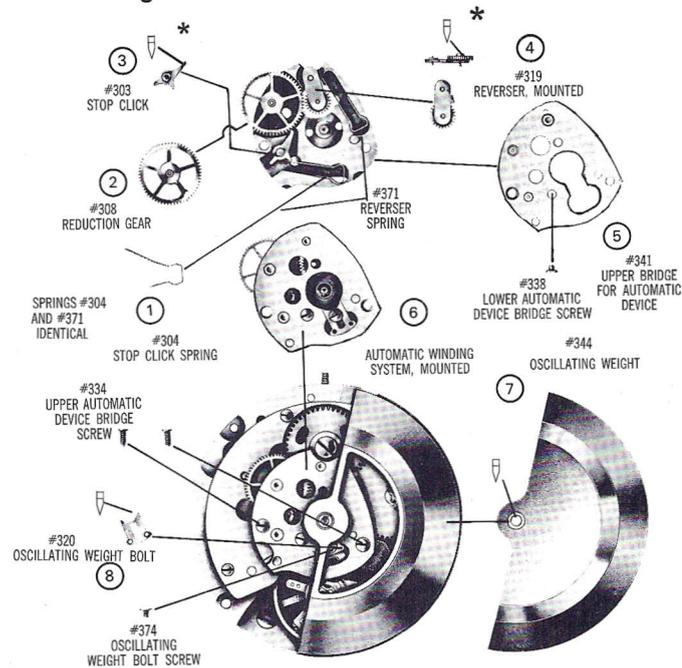
* Cannot Be Disassembled. Available only as a unit.
**Caution: Do Not omit step 5.

How to Assemble the Automatic Device

The assembly of the automatic device requires special precaution because the pinion of the reduction gear (see Fig. 3 Step 2) protrudes from the lower bridge and the entire unit must be assembled before it is mounted on the movement. A suitable work base for this operation is a bench anvil which can be used in the following manner:

Select a hole in the anvil which will accept the pinion of the reduction gear. Then place the lower bridge on the anvil, with the hole for the gear over the selected hole in the anvil and follow the numerical sequence of Fig. 3. When the assembly is completed, mount the entire unit onto the movement.

Fig. 3



* Lubricate as shown. Do not lubricate pivots of stop click #303 and reverser #319.

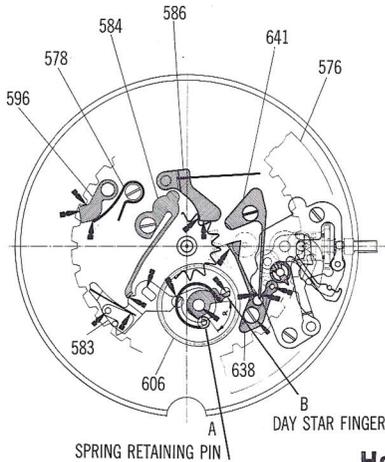
How to Assemble the Automatic Device (continued)

Fig. 4



An alternate and much simpler method is to use the special BULOVA ASSEMBLY-HOLDER #B/C 17 for Automatic Device 11BSACB (Fig. 4) available at authorized BULOVA MATERIAL DISTRIBUTORS. When assembling merely follow the numerical sequence of Fig. 3 but hook the long ends of the springs #304 and #371 behind the stop pins in the HOLDER. When the assembly is complete, mount the entire unit onto the movement.

Fig. 5



How to Lubricate the Calendar Mechanism

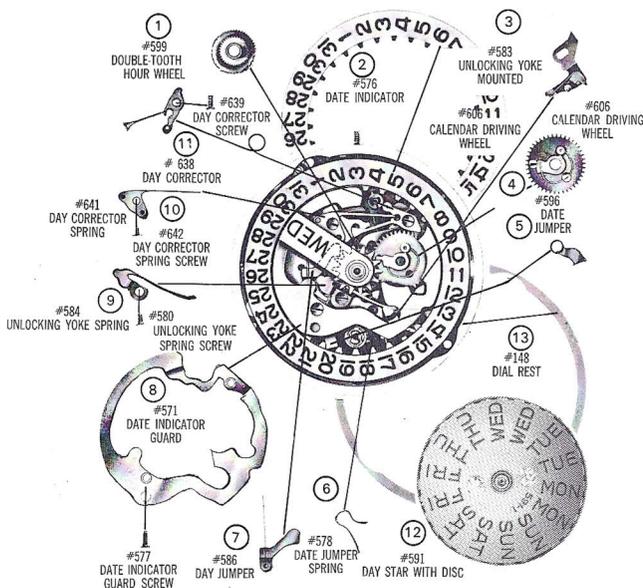
1. (Fig. 5) Using Moebius Special 8200, grease the unlock yoke #583, the calendar driving wheel #606, and the day corrector #638, as shown, before assembling in place.
2. During assembly, grease date jumper #596, day jumper #586, and unlocking yoke spring #584.
3. Apply a small amount of grease to three or four teeth of the date indicator #576 and turn the indicator forward to spread the lubricant.

How to Assemble the Calendar Mechanism

START HERE

In assembling the calendar device BE SURE TO FOLLOW THE NUMERICAL SEQUENCE shown in the illustration.

Fig. 6

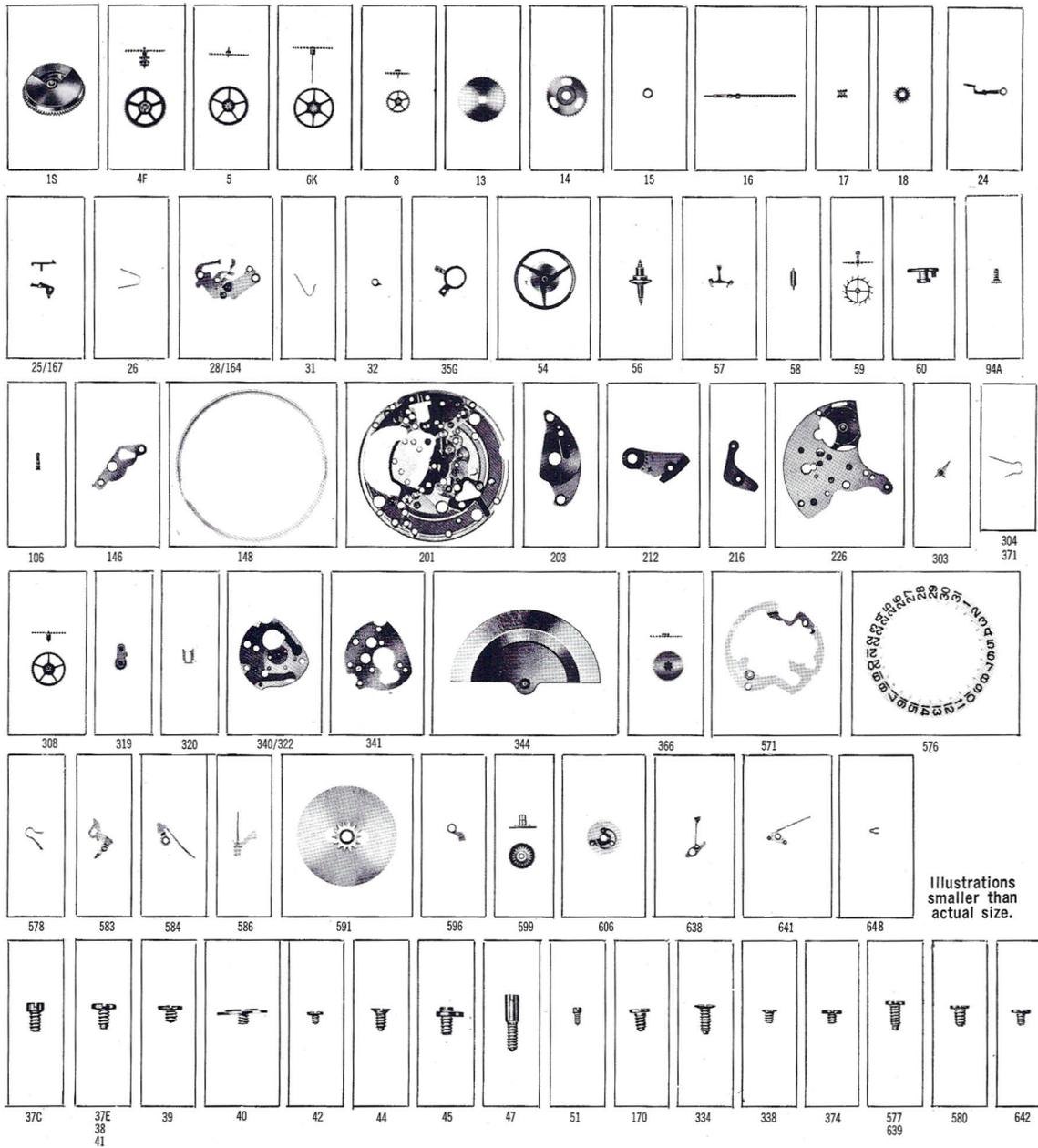


Checking during assembly

1. Before installing calendar driving wheel #606 (Step 4, Fig. 6) make sure that day star driving finger (Fig. 5- B) lies directly over hole in wheel.
2. After Step 8 (Fig. 6) insert the tail of the day jumper spring into its recess in the date indicator guard #571. Then, check the endshake of the date indicator #576, the unlocking yoke #583, the day jumper #586, and the date jumper #596. They should move freely with a minimum of play.
3. After Step 11 (Fig. 6) check endshake of day corrector #638, and make sure that the date jumper #596 is in its normal position between teeth of the date indicator #576.
4. With date jumper #596 properly positioned, pull stem to its outermost (hand setting) position and observe the spring retaining pin (Fig. 5- A) on calendar driving wheel #606 while turning the crown counterclockwise (backward). The pin (A) should come into contact with the day star driving finger (B) before the date indicator #576 advances.
5. Before replacing the day disc Step 12 (Fig. 6) turn the calendar drive wheel #606 so that its day star finger (Fig. 5- B) is out of the path of the teeth of the day disc #591.
6. After Step 12 (Fig. 6) make sure that day disc #591 is free on the hour wheel #599 and on the same level with the date indicator #576.
7. After Step 13 (Fig. 6) replace the dial and check the functioning of the day disc #591.
8. With stem in intermediate position turn crown forward and backward. Date and day indicators should respond snappily. If day is sluggish or stalls, it may be the result of one of the following causes: the spring of date jumper may have jumped out of place, the day star finger of calendar drive wheel may be blocking the disc, the day disc may be rubbing on dial or the day jumper may have slipped under the star wheel due to excessive endshake of day disc.
9. Pull stem out to hand setting position and turn crown counterclockwise (backward). When the calendar indexes, the day and date should each advance one full step simultaneously and without hesitation.
10. After casing, check the functioning of the day disc — dial up and dial down — by changing the day a few times with the corrector. If the day disc stops, it is most likely that the day jumper slipped under the star of the day disc. To correct, uncasing, undial and realign the day jumper with the day star. Then, limit the end-shake of the hour wheel with key bolt #648. Place it on the day disc and push it into a groove in the hour wheel. DO NOT PUSH WITH TWEEZERS. Use screwdriver-shaped pegwood.

Note: The key bolt can be used only when the dial is slightly domed and the hour wheel is grooved.

Parts List for Model 11BSACB



Illustrations smaller than actual size.

Screw illustrations larger than actual size.

Part No.	Part Name	Part No.	Part Name	Part No.	Part Name
1S	Sealed Barrel	51	Hairspring Stud Screw	320	Oscillating Weight Bolt
4F	Large Driving Wheel & Notched Set Wheel	54	Balance Complete	334	Upper Automatic Device Bridge Screw
5	Third Wheel	56	Balance Staff	338	Lower Automatic Device Bridge Screw
6K	Sweep Second Wheel & Pinion	57	Pallet s/s Pivot	340/322	Lower Automatic Device Bridge with Oscillating Weight Axle
8	Minute Wheel	58	Pallet Arbor s/s Pivot	341	Upper Automatic Device Bridge
13	Ratchet Wheel	59	Escape Wheel s/s Pivot	344	Oscillating Weight
14	Crown Wheel	60	Roller	366	Crown Wheel Driving Gear
15	Crown Wheel Ring	63-64	Minute & Hour Hands (not shown)	371	Reverser Spring (same as 304)
16	Stem	65C	Sweep Second Hand (not shown)	374	Oscillating Weight Bolt Screw
17	Clutch Wheel	94A	Sweep Second Cannon Pinion	377	Axle for Crown Wheel Driving Gear (not shown)
18	Winding Pinion	106	Center Pipe	571	Date Indicator Guard
24	Clutch Lever	111	Upper Shock Set Complete (not shown)	576	Date Indicator
25/167	Set Lever & Set Lever Axle	112	Lower Shock Set Complete (not shown)	577	Date Indicator Guard Screw
26	Set Spring	129	Minute Wheel Spring (not shown)	578	Date Jumper Spring
28/164	Set Bridge & Rocking Bar Mtd.	146	Cannon Pinion Guard	580	Unlocking Yoke Spring Screw
31	Click Spring	148	Dial Rest	583	Date Indicator Unlocking Yoke, Mounted
32	Click	170	Cannon Pinion Guard Screw	584	Date Indicator Unlocking Yoke Spring
35G	Regulator for Adjusting Stud Holder—Flat	173	Minute Wheel Brake Spring Rivet (not shown)	586	Day Jumper
37C	Combined Bridge Screw	201	Lower Plate	591	Day Star with Dial Disc
37E	Barrel Bridge Screw	203	Barrel Bridge	596	Date Jumper
38	Balance Bridge Screw (same as 37E)	212	Balance Bridge—Flat	599	Double Tooth Hour Wheel
39	Pallet Bridge Screw	216	Pallet Bridge	606	Calendar Driving Wheel
40	Crown Wheel Screw	226	Combined Bridge	638	Day Corrector
41	Ratchet Wheel Screw (same as 37E)	303	Stop Click	639	Day Corrector Screw (same as 577)
42	Click Screw	304	Stop Click Spring	641	Day Corrector Spring
44	Set Bridge Screw	308	Reduction Gear	642	Day Corrector Spring Screw
45	Case Screw 1/2 Head	319	Reverser—Mounted	648	Key Bolt
47	Dial Screw				