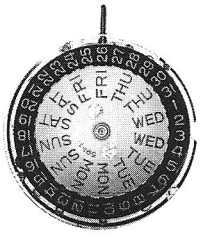
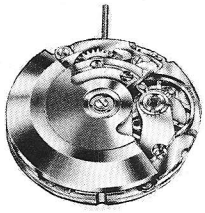
BULOVA WATCH COMPANY, Inc.
TECHNICAL BULLETIN

DIAL SIDE



TRAIN SIDE



BULOVA MODEL® 1133.10
CARAVELLE® MODEL 1133.50

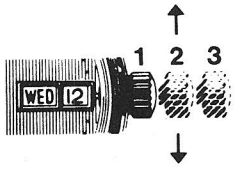
Automatic, Sweep Second
Instant Change Date and Day

Crown with Three Positions

1 For Winding

2 For **Date** Correction
For **Day** Correction
(Setting wanted language if indicator bilingual)

3 For Setting The Hands



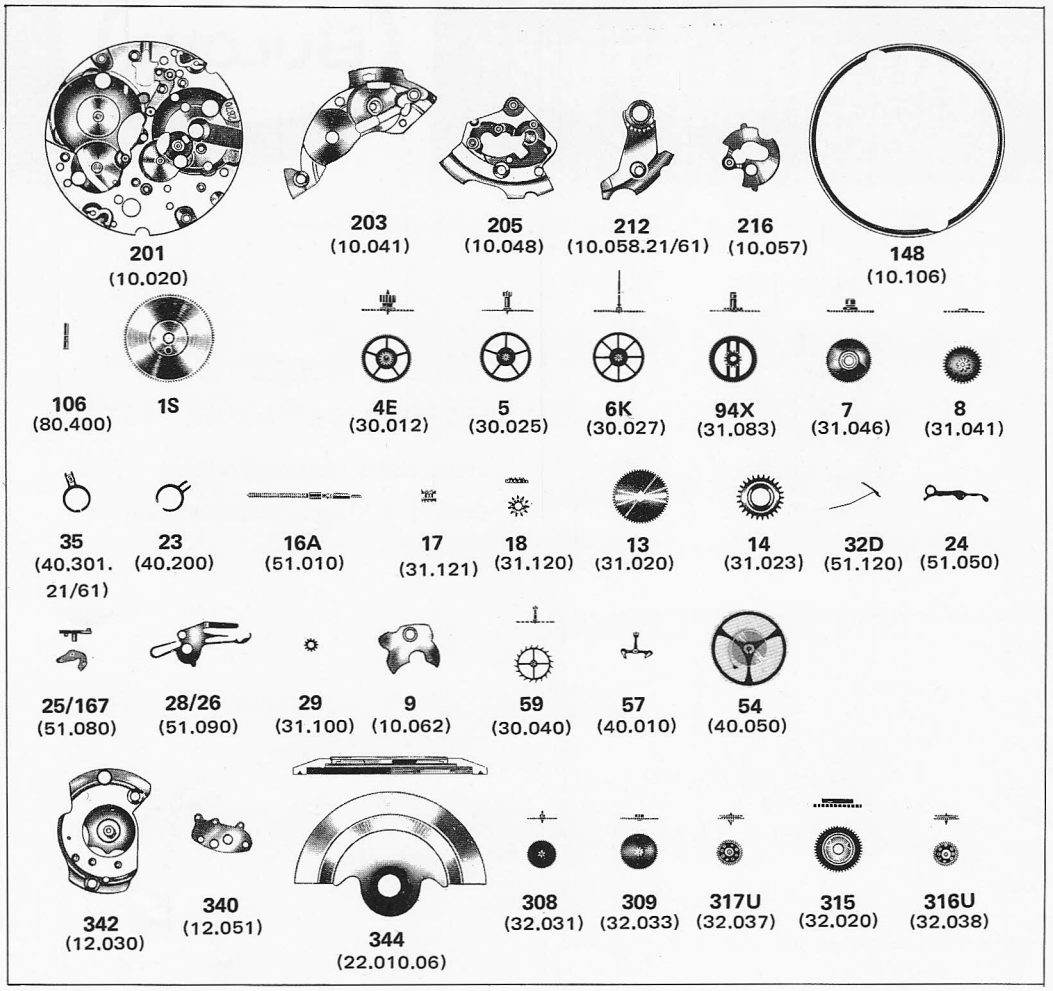
SPECIFICATIONS

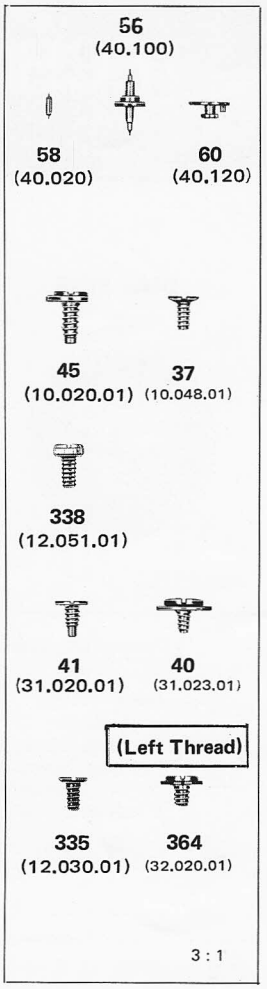
11½ Ligne 17 Jewel Movement
Diameter of the Plate 25.60mm.
Sweep Second Hand
Date Corrector
Instantaneous Date and Day
Total Running Time App. 52 Hours
Screwless Balance
21,600 beats per hour
Adjustable stud holder
Shock Resistant
Angle of lift 52°

DESIGNATION OF TYPES

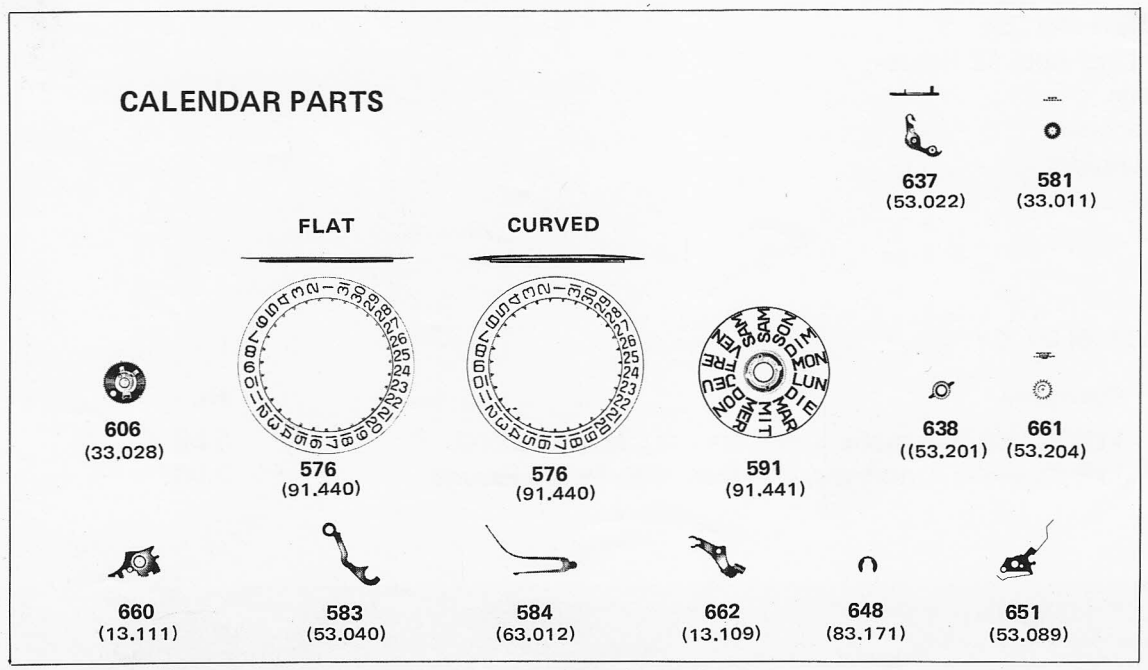
Caliber	Description	Ht.
1133.10	11½ Bulova Automatic, Day-Date with Sweep Second	5.50
1133.50	11½ Caravelle Automatic, Day-Date with Sweep Second	5.50

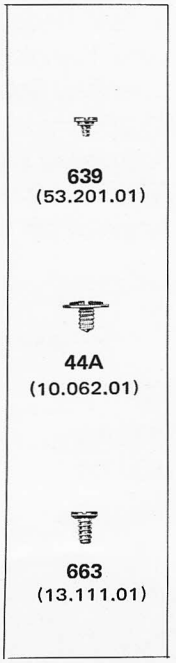
PARTS FOR BULOVA MODEL 1133.10
CARAVELLE MODEL 1133.50





CALENDAR PARTS





PARTS LIST BULOVA MODEL 1133.10

Original Bulova Number	ISO Number	Part Name
1S	–	Sealed Barrel
4E	30.012	Intermediate Wheel
5	30.025	Third Wheel
6K	30.027	Sweep Second Wheel Hts 5.80 – 6.05
7	31.046	Hour Wheel – Hts. 1.75 – 2.05
8	31.041	Minute Wheel
9	10.062	Minute Wheel Bridge
13	31.020	Ratchet Wheel
14	31.023	Crown Wheel
16A	51.010	Stem Tap 9 – Tap 10
17	31.121	Clutch Wheel
18	31.120	Winding Pinion
23	40.200	Stud Holder
24	51.050	Clutch Lever
25/167	51.080	Set Lever With Axle
28/26	51.090	Setting Bridge & Spring
29	31.100	Setting Wheel
32D	51.120	Spring/Click
35	40.301 21/61	Regulator Flat–
37	10.048.01	Barrel & Train Bridge Screw
38	10.058.01	Balance Bridge Screw (Use 37)
39	10.057.01	Pallet Bridge Screw (Use 37)
40	31.023.01	Crown Wheel Screw
41	31.020.01	Ratchet Wheel Screw
44	51.090.01	Setting Bridge Screw (Use 37)
44A	10.062.01	Minute Wheel Bridge Screw
*45	10.020.01	Case Screw ½ Hd
47	–	Dial (See 47D)
47D	10.300	Dial Bolt
54	40.050	Balance Complete– Flat
56	40.100	Balance Staff
57	40.010	Pallet s/s Pivot
58	40.020	Pallet Arbor s/s Pivot
59	30.040	Escape Wheel s/s Pivot
60	40.120	Roller
63-64	–	Minute & Hour Hands (Use 11BSACB)
65C	–	Sweep Second Hand
94X	31.083	Cannon Pinion & Drive Wheel Ht. 2.70 – 2.95
106	80.400	Center Pipe
*148	10.106	Dial Rest
201	10.020	Lower Plate
203	10.041	Barrel Bridge
205	10.048	Train Wheel Bridge
212	10.058. 21/61	Balance Bridge Flat
216	10.057	Pallet Bridge
308	32.031	Reduction Gear
309	32.033	Ratchet Wheel Drive Gear
315	32.020	Oscillating Weight Bearing Wheel
316U	32.038	Additional Pawl Winding Wheel
317U	32.037	Pawl Winding Wheel Complete
335	12.030.01	Automatic Device Framework Screw (Blue)
338	12.051.01	Lower Automatic Device Bridge Screw
340	12.051	Lower Automatic Device Bridge
342	12.030	Automatic Device Framework
344	22.010.06	Oscillating Weight
364	32.020.01	Oscillating Weight Bearing WL Scw.
576	91.440	Curved Date Indicator
576	91.440	Flat Date Indicator
581	33.011	Intermediate Date Wheel
583	53.040	Date Indicator Unlocking Yoke
584	63.012	Date Indicator Unlocking Yoke Spg.
591	91.441	Day Star w/Dial Disc
606	33.028	Calendar Driving Wheel
637	53.022	Guide Lever for Date Corrector
638	53.201	Day Corrector
639	53.201.01	Day Corrector Screw
648	83.171	Day Disc Spring–Clip
651	53.089	Day/Date Jumper
660	13.111	Date Jumper Guard
661	53.204	Double Corrector
662	13.109	Unlocking Yoke Maintaining Plate
663	13.111.01	Date Jumper Guard Screw

Flat or curved Date Indicator (Specify)

*Used only on some models

*Used only on some models

DISASSEMBLY

REMOVING THE STEM

To remove the stem, press the setting lever axle with a screw driver 1.40 mm. in diameter (the same diameter used for the bridge screws). Pointed articles – such as tweezers – should not be used because if the setting lever is pressed down too far, it will jam.

REMOVING THE DIAL

To remove the dial, push a hooked (or pointed) tool against the nose of the bolt at "C", in the direction of the arrow D until the dial is free. (See. Fig. 1)

REMOVING THE BALANCE BRIDGE ASSEMBLY

Because of the reduced outer dimension of the oscillating weight, the balance bridge is more exposed. This facilitates regulation. It also permits the removal and installation of the bridge assembly without removing the oscillating weight.

Note: See stud "A" (Fig. 2) and note the absence of a hairspring stud screw.

The outer end of the hairspring is cemented into a special stud. The stud is held by the flexible arms of the stud holder B. To remove the stud from its holder, place a pointed wedged shaped (oval or rectangular) tool between the two arms (B) and *ease* the stud out.

A Stud
B Flexible Arms of Stud Holder
C Regulator Block
D Flexible Arms of Regulator

ASSEMBLY

PLAY OF THE HAIRSPRING BETWEEN REGULATOR PINS

The flexible arms of the stud holder "B" and of the regulator "D" permit the quick adjustment of the hairspring play between the regulator pins by turning either the stud "A" or the regulator block "C".

TIP: The hairspring in the flat tends to pull upwards – never downwards.

SPRING/CLICK 32D

The spring/click is inserted after the crown wheel has been installed. The purpose of this arrangement is to prevent the mainspring from unwinding suddenly. (See Fig. 3)

WIND-SET MECHANISM

Be sure to place into position guide lever date corrector #637 before assembling wind-set mechanism.

POSITIONING THE DATE INDICATOR DISC

A slot see "E" (See Fig. 4) in the date jumper guard #660 makes it possible to assemble and disassemble the date indicator without removing the date indicator guard (which is also the minute wheel bridge). In assembling, position the date indicator on the movement so that some of its teeth are beneath the lip of the minute bridge. Then position the indicator so that one of its teeth lies above slot "E" in the date jumper guard #660. Seat and turn the indicator until it is locked in place. Now the date jumper guard is acting also as an additional date indicator guard.

BENCH TIPS

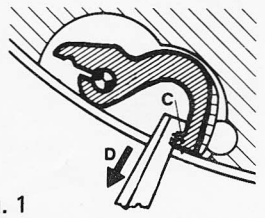


Fig. 1

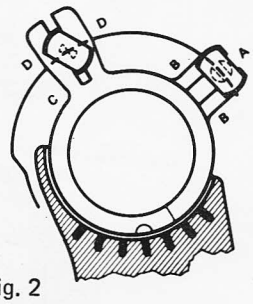


Fig. 2

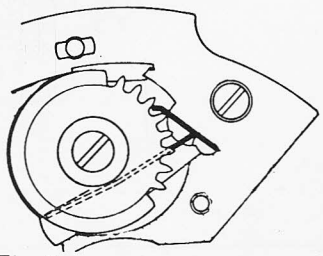


Fig. 3

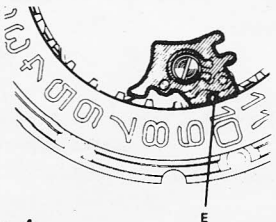
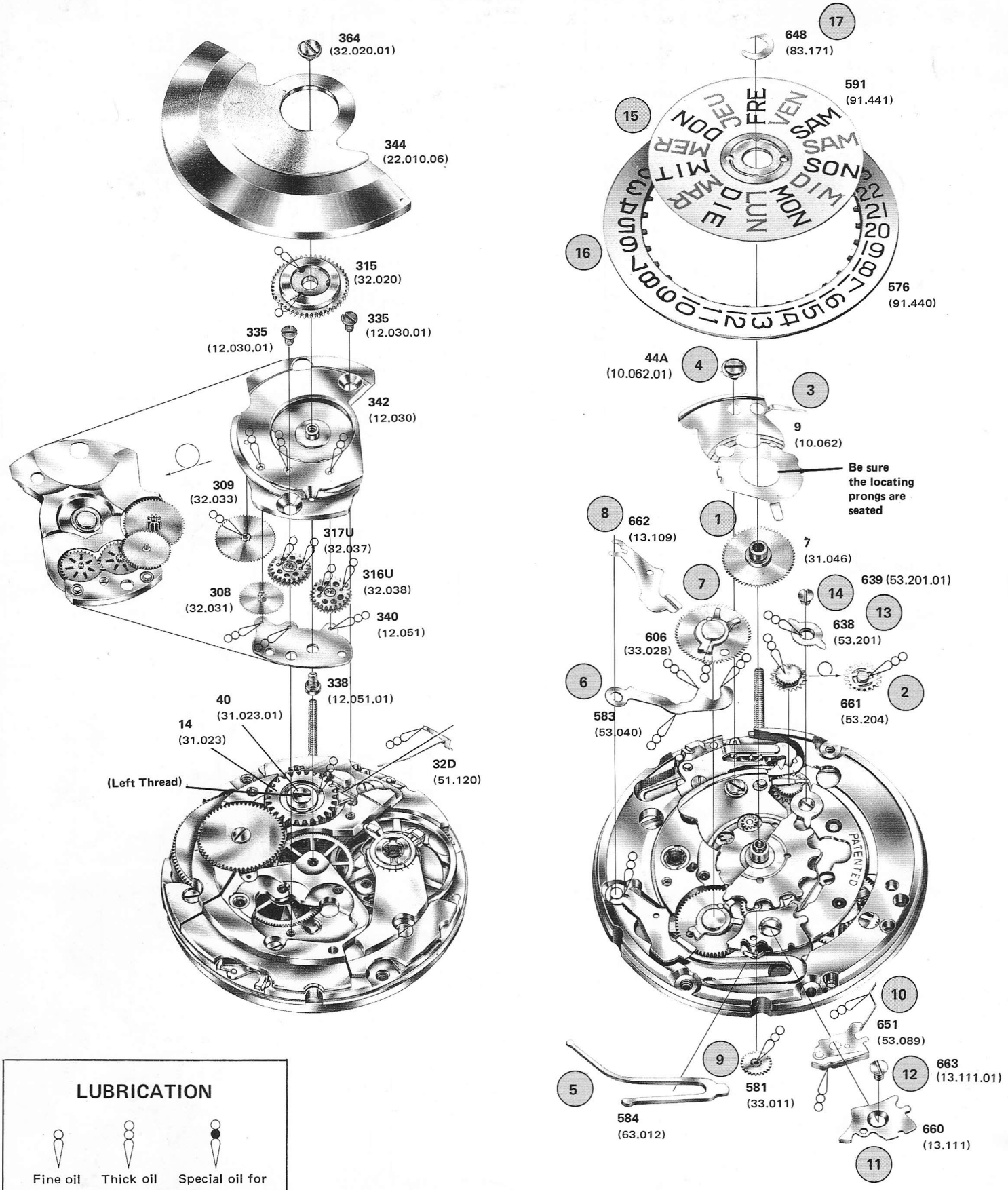


Fig. 4

Disassembly: Follow the encircled numbers in sequence.



LUBRICATION

Fine oil — Thick oil or grease — Special oil for pallet stones

All information contained in this booklet is based on the latest product information available at the time of printing. Printed 1978.
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