

<b>Calibre No.</b> <h2 style="text-align: center;">2245A</h2> <p>⇨ Basic Calibre 2205A 17J Catalog No. 22-05-1</p>	<b>Jewels</b> <h2 style="text-align: center;">25j</h2>	<b>Style Name</b> 
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Cal. 2245A

### Characteristics

Casing diameter : 17.20  $\phi$  mm  
 Maximum height : 5.90 mm  
 Vibrations per hour : 28,800  
 Automatic and auxiliary hand winding with sweep second  
 Calendar (date)  
 Instant date setting  
 Second-setting device  
 Micro-adjustor  
 "Diashock" Shock Resistant Device  
 "Diafix" Oil Lubrication Device



T	r	Y	
012 354	012 751	012 752	2/1

72  
8  
72  
12

☆⇨ Please see remarks on the next page.

As for all other parts not shown here, please refer to the basic calibre

(Cal. No. **2205A** 17J Catalog No. 22-05-1 Red page).

Calibre No.		Jewels	Style Name	
<b>2245A</b>		<b>25j</b>		
⇨ Basic Calibre 2205A 17J Catalog No. 22-05-1				
PART NO.	LIST OF MATERIALS	PART NO.	LIST OF MATERIALS	
112 039	Barrel & train-wheel bridge	511 220	First reduction wheel	
122 229	Center wheel bridge	514 220	Second reduction wheel	
161 229	Pallet cock	530 220	Friction spring for intermediate pinion	
171 229	Balance cock	☆542 221	Rocking seat for idle wheel (with wheels)	
191 229	Framework for automatic device	546 220	First reduction wheel click guard	
201 229	Complete barrel with arbor & mainspring	551 220	First reduction wheel click	
224 229	Center wheel & pinion with cannon pinion	553 220	Click spring for first reduction wheel	
225 225	Cannon pinion	<b>821 220</b>	<b>Ball-bearing complete</b>	
231 229	Third wheel & pinion	860 220	Intermediate pinion for ratchet wheel	
241 229	Fourth wheel & pinion	☆556 221	Date finger	
245 225	Sweep second pinion	☆556 222		
251 229	Escape wheel & pinion	☆801 220	Date dial	
261 222	Minute wheel	☆801 222		
271 225	Hour wheel	☆801 226	Date driving wheel	
282 221	Clutch wheel	☆802 220		
283 221	Winding pinion	☆802 223	Setting wheel lever complete	
284 220	Crown wheel	<b>803 220</b>		
285 220	Ratchet wheel	808 220	Date dial guard	
301 229	Jewelled pallet fork & staff	810 220	Date jumper	
310 229	Balance complete with stud	811 220	Date jumper spring	
315 229	Balance staff	817 220	Intermediate date wheel	
331 110	Roller with jewel	012 121	Stud screw	
☆341 229	Regulator	012 129	Friction spring screw for sweep second pinion	
344 250	Regulator adjusting device	012 129	Friction spring screw for intermediate pinion	
345 221	Stud holder	012 204	Pallet cock screw	
☆351 223	Winding stem	012 263	Balance cock screw	
☆351 224		012 279	Framework screw for automatic device	
372 221	Joint stem (movement portion)	012 280	Barrel & train-wheel bridge screw	
373 250	Joint stem (case portion)	012 280	Center wheel bridge screw	
381 220	Click	<b>012 354</b>	<b>Screw for setting wheel lever complete</b>	
☆382 220	Click spring	012 407	Case screw	
☆383 223	Setting lever	012 422	Screw for oscillating weight	
☆383 224		012 668	Click screw	
☆383 225		012 724	Dial screw	
☆383 229		012 736	Setting lever spring screw	
384 221		Yoke (Clutch lever)	012 736	Setting lever axle spring screw
385 221	Yoke spring (Clutch lever spring)	012 746	Screw for 1st reduction wheel click guard	
387 229	Minute wheel bridge	012 750	Date dial guard screw	
388 221	Setting lever spring	<b>012 751</b>	<b>Screw for ball-bearing complete</b>	
389 220	Setting lever axle spring	<b>012 752</b>	<b>Minute wheel bridge screw</b>	
390 221	Setting lever axle	011 159	Upper hole jewel for barrel	
391 229	Second-setting lever	011 153	Lower hole jewel for barrel	
395 220	Micro-adjustor	011 521	Upper hole jewel for center wheel	
☆396 221	Friction spring for sweep second pinion	011 153	Lower hole jewel for center wheel	
481 220	Crown wheel ring	011 542	Upper hole jewel for 3rd wheel	
491 180	Dial washer	011 542	Lower hole jewel for 3rd wheel	
768 220	Setting lever axle ring	011 541	Upper hole jewel for 4th wheel	
014 413	Diashock upper frame	011 541	Lower hole jewel for 4th wheel	
014 415	Diashock upper hole jewel with frame	011 528	Lower hole jewel for escape wheel	
011 212	Diashock upper cap jewel	011 713	Lower hole jewel for sweep second pinion	
014 417	Diashock upper spring	011 505	Upper hole jewel for pallet	
014 604	Diashock lower frame	011 505	Lower hole jewel for pallet	
014 605	Diashock lower hole jewel with frame	011 157	Upper hole jewel for 1st reduction wheel	
011 221	Diashock lower cap jewel	011 157	Lower hole jewel for 1st reduction wheel	
014 317	Diashock lower spring	011 157	Upper hole jewel for 2nd reduction wheel	
015 591	Diafix upper hole jewel with frame for escape wheel	011 157	Lower hole jewel for 2nd reduction wheel	
011 221	Diafix cap jewel	013 014	Tube for barrel & train-wheel bridge screw	
015 513	Diafix spring	013 015	Tube for center wheel bridge screw (long)	
500 229	Oscillating weight	013 016	Tube for screw of setting wheel lever complete	
		013 022	Tube for center wheel bridge screw (short)	
		013 031	Tube for setting lever axle spring screw	

☆⇨ Please see remarks on the next page.

Items in light letters are not shown in photos; those parts are interchangeable with the basic calibre

(Cal. No. **2205A** 17J Catalog No. 22-05-1 Red page).

Calibre No.

**2245A**

Jewels

**25j**

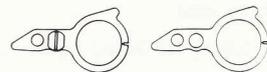
Style Name

⇒ Basic Calibre 2205A 17J Catalog No. 22-05-1

**Remarks :**

**Regulator** ——— Refer to diagram on the right. ———

☆341 229..... These two types of the regulator — Part No. 341 229— are identical, except for slight difference in the shapes of the regulator pins (interchangeable).



**Winding stem** ——— Refer to the photos on the front page and shapes in the lower diagram ———

☆351 223..... **Short** winding stem (Thread is provided completely on the crown portion.)  
 ☆351 224..... **Long** winding stem (Thread is provided only on the end of the crown portion.)



☆351223



☆351224

**Click spring**

☆382 220..... 382 110 click spring also acceptable.

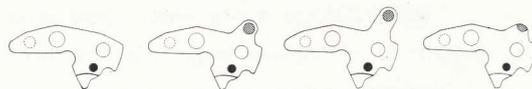
[Fig. 1]

**Setting lever**

There are four types of setting levers. They are used according to the structure of cases and types of winding stems. Select a suitable one by the following procedures referring to the shapes indicated in Fig. 1.

In case of a one-piece water-resistant case, if an incorrect setting lever for dial diameter is used, the winding stem cannot be pulled out or the movement cannot be set in the case.

Attention must be paid to this point (Refer to Fig. 2, Example of suitable setting lever).



☆383 223 ☆383 224 ☆383 225 ☆383 229

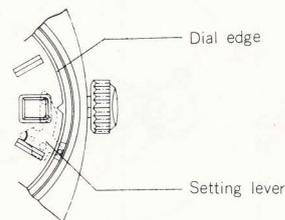
☆383 223... { ① Used for watch with joint stem.  
 ② Used for watch with ordinary winding stem other than one-piece or square type water-resistant case.

☆383 224..... Used for one-piece water-resistant case with ordinary winding stem and dial of diameter 17.50~18.00 φmm.

☆383 225..... Used for one-piece water-resistant case with ordinary winding stem and dial of diameter 18.50~19.00 φmm.

☆383 229..... Used for one-piece water-resistant case with ordinary winding stem and dial of diameter less than 17.00 φmm.

[Fig. 2]



[Example of suitable setting lever]  
 Tail of the setting lever is located between the dial and the case.

When parts number of the setting lever is unknown or when ordering setting levers other than the above, specify ① Cal. No. ② jewels ③ dial No. and ④ case No.

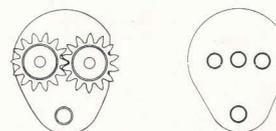
**Friction spring for sweep second pinion**

☆396 221..... 396 110 friction spring for sweep second pinion also acceptable.

**Rocking seat for idle wheel (with wheels)**

☆542 221..... Rocking seat for idle wheel (Part No. 542 220) and Idle wheels (2 pcs., Part No. 508 220) are set jointly or sometimes set separately.

☆542 221 set in joint with Rocking seat and Idle wheels, can be used in common with the above two types when replacing (Refer to the right diagram).



☆542 221 ☆(542 220)

Calibre No.

**2245A**

Jewels

**25j**

Style Name

⇒ Basic Calibre 2205A 17J Catalog No. 22-05-1

**Remarks :** —continued—**Date dial**

- ☆801 220(Red figures on white background).....Used when both the crown and the date frame are located at **3** o'clock position.
- ☆801 222(Red figures on white background).....Used when the crown is located at **3** o'clock position and the date frame at **6** o'clock position.
- ☆801 226(Black figures on white background) ...Used when both the crown and the date frame are located at **3** o'clock position.

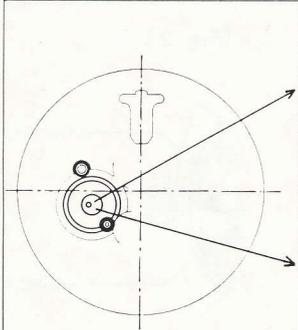
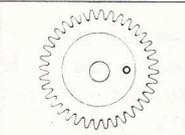
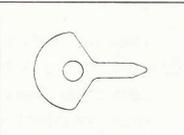
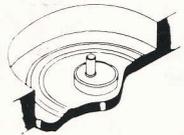
If the date dial is required in any other type, specify ① Cal. No. ② jewels ③ the crown position ④ the date frame position and ⑤ dial No.

**Date finger, Date driving wheel**

Since these parts have two types each, use with the following combination. The parts No. differ according to the shape of the date driving wheel axle pivoting on the main plate. Select a suitable one by referring to the description below when replacing.

- ☆556 221(Date finger = silver colour) } Used only when the date driving wheel axle pivoting on the
- ☆802 220(Date driving wheel = silver colour) } main plate is without eccentric post.
- ☆556 222(Date finger = gold colour) } Used only when the date driving wheel axle pivoting on the
- ☆802 223(Date driving wheel = gold colour) } main plate is with eccentric post.

Refer to the following diagram as to distinguish and combine each parts.

Main plate	(Date driving wheel axle)	Date driving wheel	Date finger
	 without eccentric post	 ☆802 220 (silver colour)	 ☆556 221 (silver colour)
	 with eccentric post	 ☆802 223 (gold colour)	 ☆556 222 (gold colour)