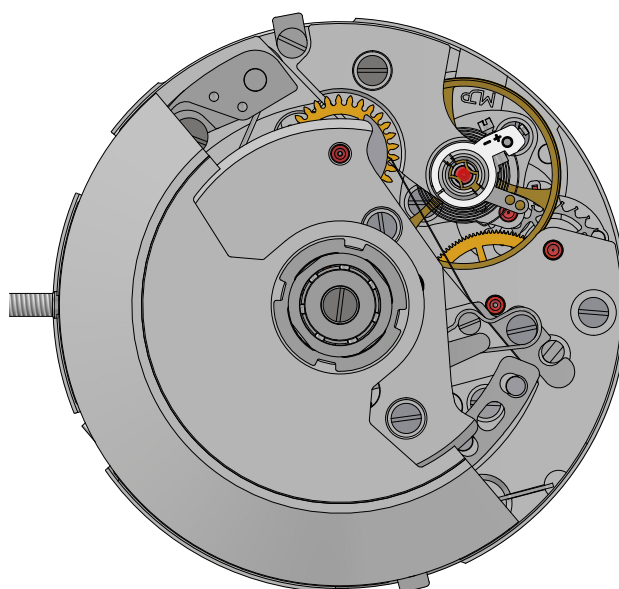
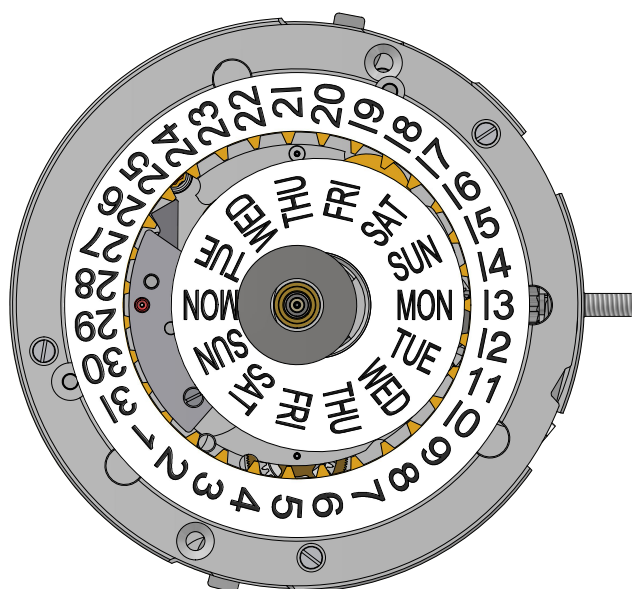


COMMUNICATION TECHNIQUE - L100



Hauteur Height	7.90 mm
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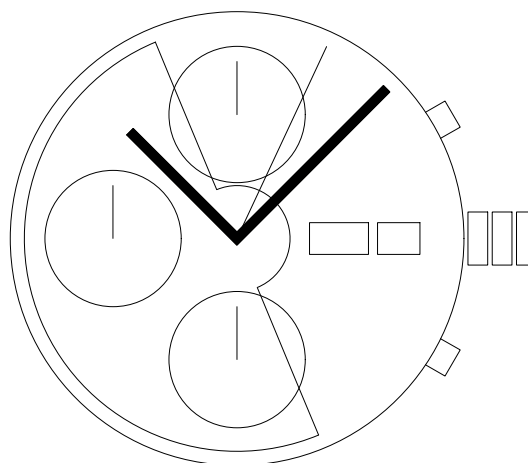
Diamètre d'encageage Case fitting diameter	Ø30.00 mm - 13 1/4"
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Fréquence Frequency	28'800 A/H (4 Hz)
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Réserve de marche Runing time	60H maxi
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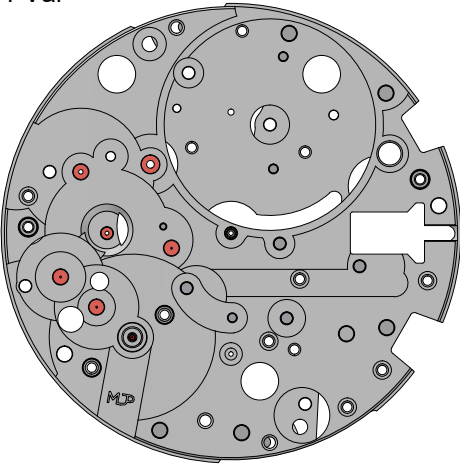
Nombre de rubis Number of jewels	26
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Angle de levée du balancier Angle lift of balance	50°
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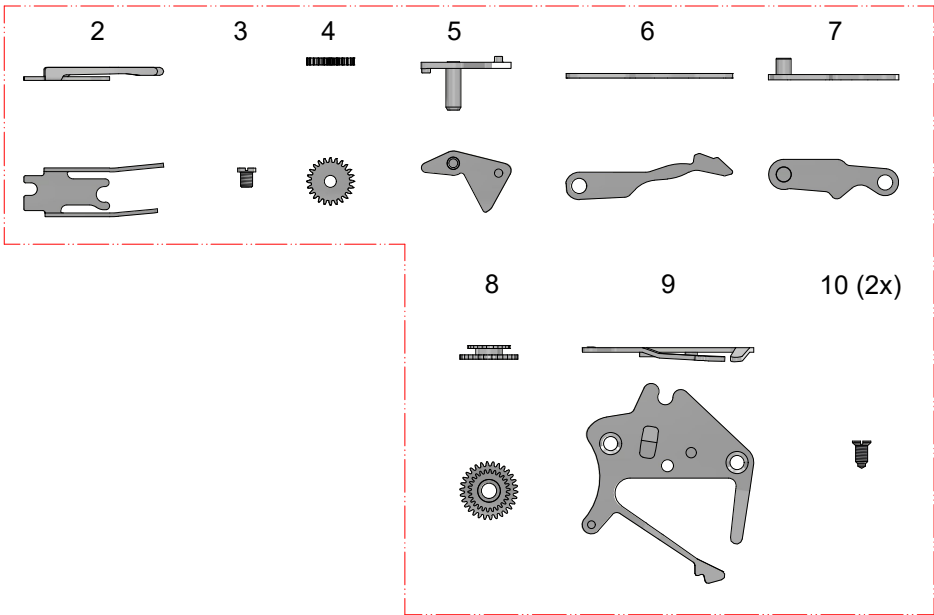


Les travaux de réparation et de révision ne doivent être effectués que par du personnel dûment formé.
The repair and reconditioning work must only be performed by properly trained personnel.

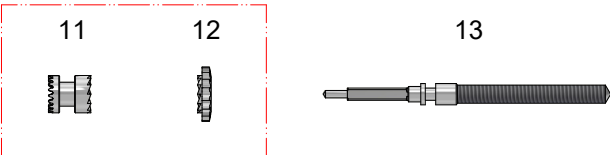
1 Var



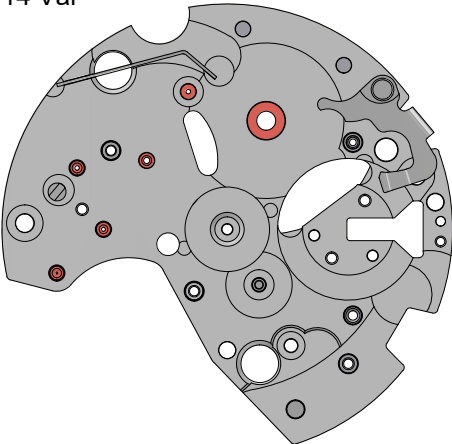
kit 'Mise à l'heure'



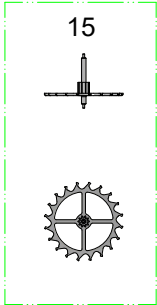
kit 'Coulant'



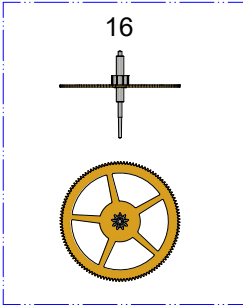
14 Var



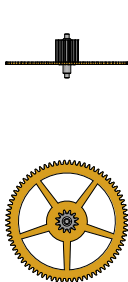
kit 'Ancre' 1/2
Sur demande



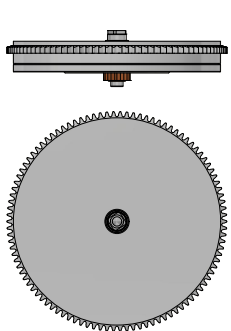
kit Var 'Aiguillage' 1/3



17



18



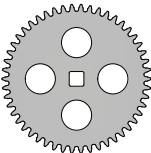
19



20



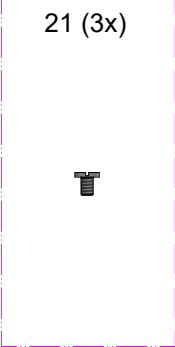
25



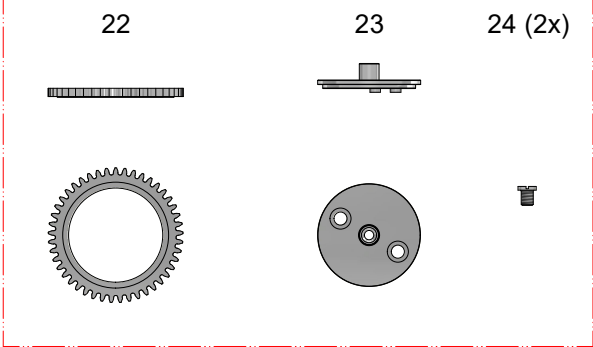
26



kit Var 'Vis' 1/4

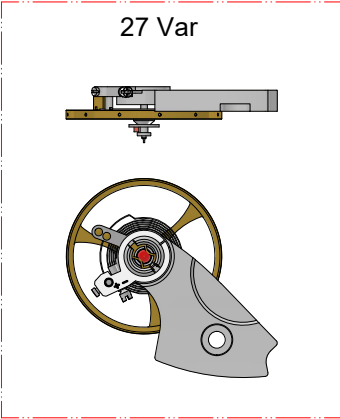


kit 'Couronne'

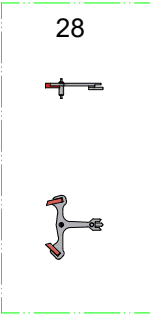


kit Var 'Pont de balancier complet'
Sur demande

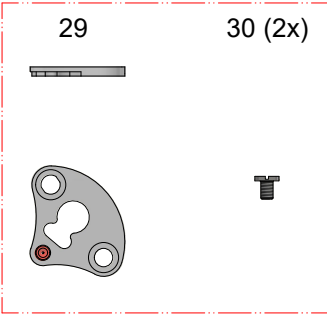
27.6 Var



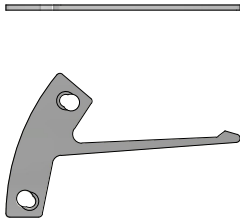
kit 'Ancre' 2/2
Sur demande



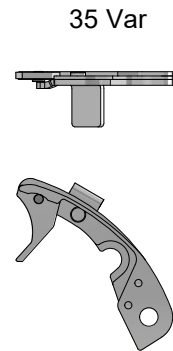
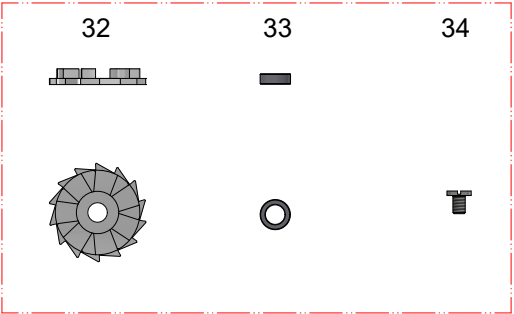
kit Var 'Pont d'ancre'



31 Var



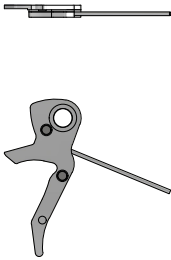
kit Var 'Colonnes'



37



38



39 var



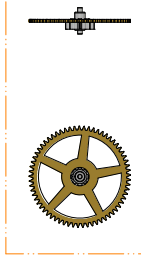
40



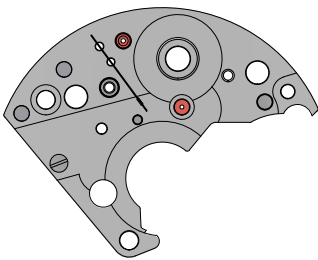
41



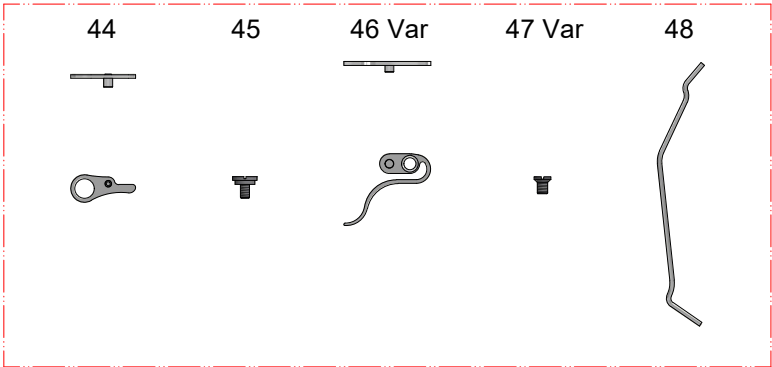
kit 'Auto' 1/2



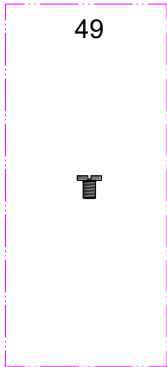
43 Var



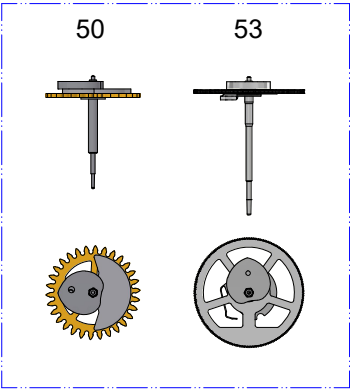
kit 'Commande'



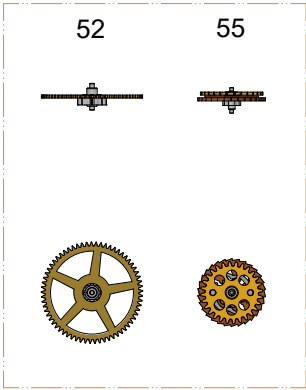
kit Var 'vis' 2/4



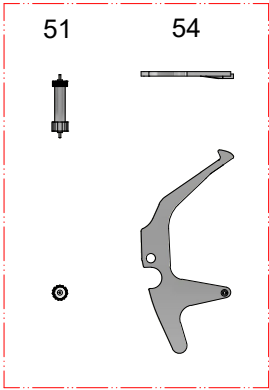
kit Var 'Aiguillage' 2/3



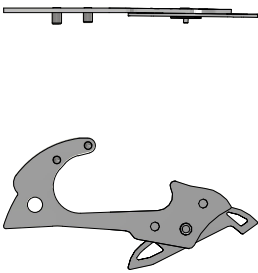
kit 'Auto' 2/2



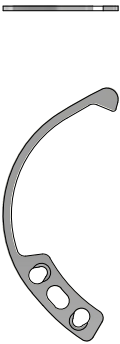
kit 'Embrayage'



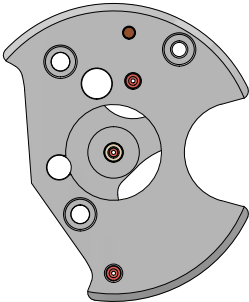
56 Var



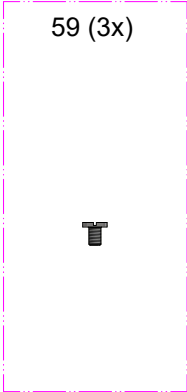
57 Var



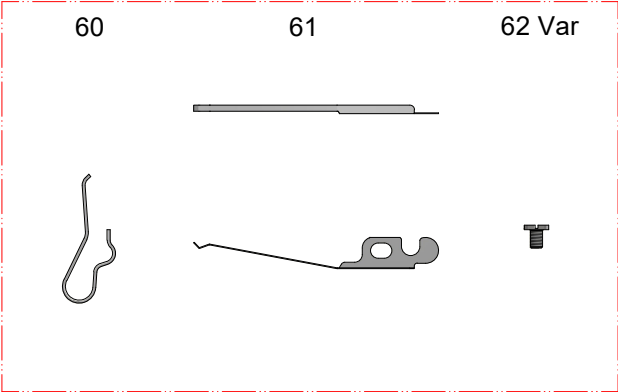
58 Var



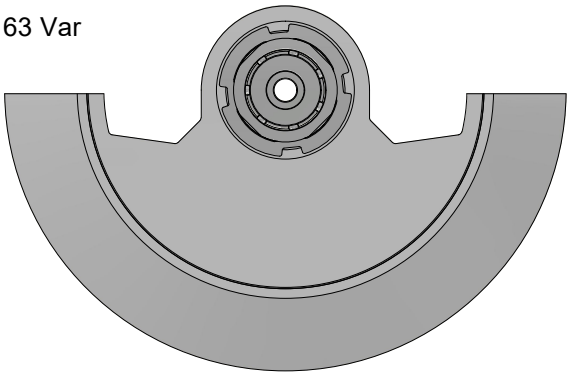
kit Var 'Vis' 3/4



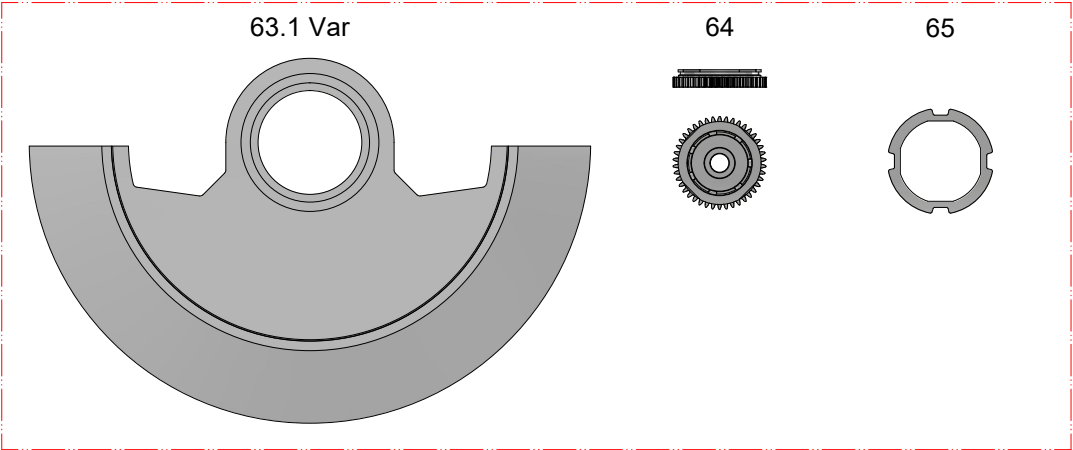
kit 'Réglage chrono'



63 Var



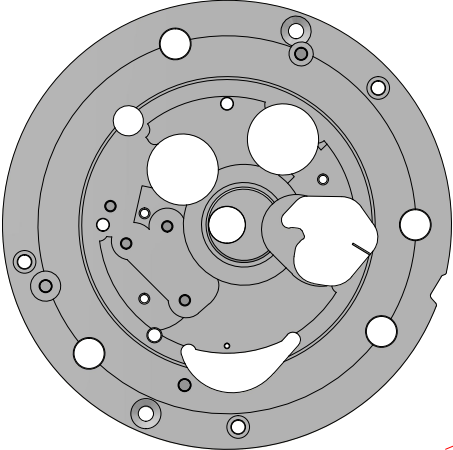
kit Var 'masse'



66



67 Var



kit 'Quantième' 1

68

69



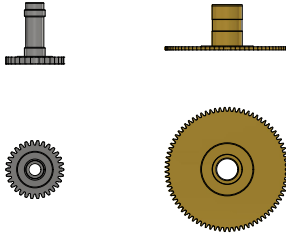
70



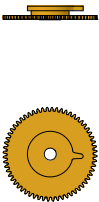
kit Var 'Aiguillage' 3/3

71

72



73 (2x)



74



kit 'Chrono'

75

76

77

78



kit 'Vis' 4/4

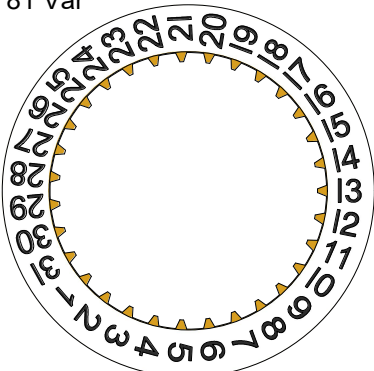
79 (3x)



80



81 Var

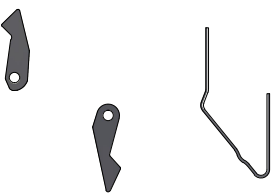


kit 'Quantième' 2

82

83

84

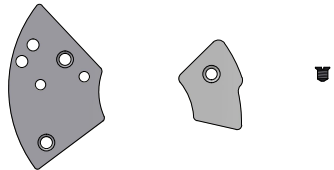


kit 'Plaque de maintien'

85

86

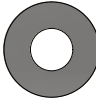
87 (3x)



88 Var



89



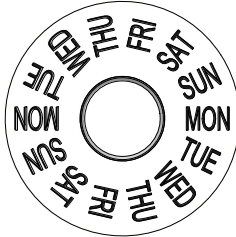
kit 'Emboîtement'

90

91



80



Liste des fournitures

List of components

Réf.		Désignation	N° pièces	Designation
1	Var	Platine, montée	L100.0100.1	Main plate, assembled
		kit 'Mise à l'heure'		kit 'Setting the time'
2		Ressort de bascule	L100.0440	Yoke spring
3		Vis à tête plate	50.080.48.2	Flat head screw
4		Renvoi	L100.0450	Setting wheel
5		Tirette montée	L100.0443.1	Setting lever, assembled
6		Bascule de pignon coulant	L100.0435	Yoke
7		Bascule de renvoi, montée	L100.0437.1	Rocking bar, assembled
8		Renvoi intermédiaire	L100.0453.1	Intermediate wheel
9		Sautoir de tirette	L100.0445	Setting lever jumper
10	2x	Vis à tête plate, conique	51.080.06.2	Flat head screw, countersunk
		kit 'Coulant'		kit 'Sliding pinion'
11		Pignon coulant	L100.0407	Sliding pinion
12		Pignon de remontoir	L100.0410	Winding pinion
13		Tige de remontoir	L100.0401	Winding stem
14	Var	Pont de barillet, monté	L100.0106.1	Barrel bridge, assembled
		kit 'Ancre' 1/2	Sur demande	Kit 'Pallet fork' 1/2
15		Mobile d'échappement		Escape wheel
	Var	kit 'Aiguillage' 1/3		kit 'Set of hands' 1/3
16		Mobile de seconde	L100.0220.1	Second wheel
17		Mobile de moyenne	L100.0210.1	Third wheel
18		Barillet, monté	L100.0185.1	Movement barrel complete
19		Mobile de grande moyenne	L100.0201.1	Great wheel
20		Levier stop	L100.9433.01	Stop lever
	Var	kit 'Vis' 1/4		kit 'Screw' 1/4
21	3x	Vis à tête plate	50.080.04.2	Flat head screw
		kit 'Couronne'		kit 'Crown wheel'
22		Roue de couronne	L100.0420	Crown wheel
23		Noyau de couronne	L100.0423.01	Crown wheel core
24	2x	Vis à tête plate	50.080.48.2	Flat head screw
25		Rochet	L100.0415	Ratchet wheel
26		Vis à tête plate	50.080.48.2	Flat head screw
27	Var	kit ' Pont de balancier, monté'	Sur demande	kit 'Complete balance bridge'
27.1	Var	Pont de balancier		Balance bridge
27.2		Triovis, Raquette, assemblée		Triovis regulator, lower index, assembled
27.3		Triovis, Porte-piton, assemblé avec vis tangentielle		Triovis regulator, Stud support, assembled
27.3.1		Piton		Balance spring stud
27.3.2		Vis de piton		Balance spring stud, screw
27.4		Incabloc dessus		Shock absorber
27.5		Balancier monté réglé		Timed balance regulated, standardized
27.6	Var	Vis à tête plate	50.100.04.2	Flat head screw
		kit 'Ancre' 2/2	Sur demande	Kit 'Pallet fork' 2/2
28		Ancre montée		Pallet fork
	Var	kit 'Pont d'ancre'		kit 'Pallet bridge'
29		Pont d'ancre, garni	L100.0125.1	Pallet bridge, assembled
30	Var 2x	Vis à tête plate	50.080.04.2	Flat head screw
31	Var	Sautoir de roue à colonnes	L100.8355	Column-wheel jumper
	Var	kit 'Colonnes'		kit 'Column-wheel'
32		Roue à colonnes	L100.8820	Column-wheel
33		Tube cylindrique	40.200.02	Cylindrical tube
34		Vis à tête plate	50.080.04.2	Flat head screw
35	Var	Commande 2 fonctions	L100.8140.1	Operating lever, 2 functions, assembled
36	Var	Vis à tête plate	50.080.03.2	Flat head screw
37		Roue entraîneuse du compteur de minutes, montée	L100.8062.1	Minute counter driving wheel, assembled
39		Bloqueur 2 fonctions	8000.8200.B	Lock 2 functions, assembled
39	Var	Vis à tête plate	50.080.04.2	Flat head screw

Liste des fournitures

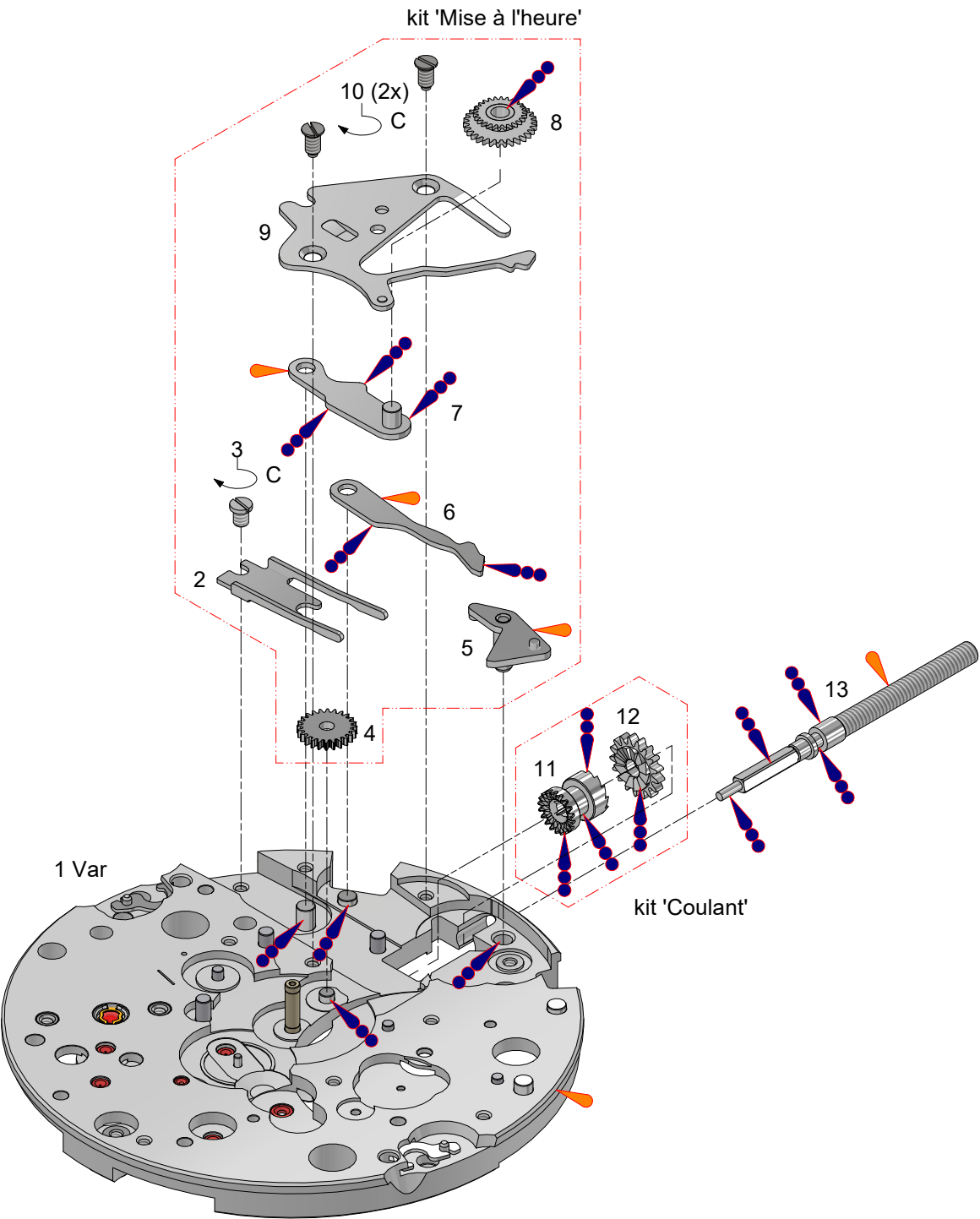
List of components

Réf.		Désignation	N° pièces	Designation
40		Interrupteur	L100.8660	Switch
41		Friction de roue de chronographe	L100.8290.1	Friction for chronograph wheel
		kit 'Auto' 1/2		kit 'Auto' 1/2
42		Mobile entraîneur de rochet	L100.1482.1	Ratchet wheel driving wheel
43	Var	Pont de chronographe, monté	L100.8500.1.02	Chronograph bridge, assembled
	Var	kit 'Commande'		kit 'Switch'
44		Bascule d'interrupteur	L100.4136.1	Switch lever
45		Vis à tête plate, avec portée	52.060.72.2	Flat head screw, with scope
46	Var	Ressort de commande d'interrupteur monté	L100.8644.1	Switch spring, assembled
47	Var	Vis à tête plate, conique	51.070.02.2	Flat head screw, countersunk
48		Ressort de rappel	L100.8348	Return spring
	Var	kit 'Vis' 2/4		kit 'Screw' 2/4
49		Vis à tête plate	50.080.04.2	Flat head screw
	Var	kit 'Aiguillage' 2/3		kit Var 'Set of hands' 2/3
50		Roue compteuse de minutes	7750.8020	Minute counting wheel
53		Mobile de chronographe	L100.8000.1	Chronograph wheel
		kit 'Embrayage'		kit 'Clutch'
51		Pignon oscillant	L100.8086	Oscillating pinion
54		Embrayage pour pignon oscillant	L100.8079	Clutch for oscillating pinion
		kit 'Auto' 2/2		kit 'Auto' 2/2
52		Mobile de réduction	L100.1481.1	Reduction wheel
55		Mobile d'inversion	L100.1488.1	Reversing wheel
56	Var	Marteau, monté	L100.8220.1	Hammer, assembled
57	Var	Ressort de marteau 2 fonctions	L100.8350	Hammer spring
58	Var	Pont du dispositif automatique, monté	L100.1142.1	Automatic device bridge, assembled
	Var	kit 'Vis' 3/4		kit 'Screw' 3/4
59		3x Vis à tête plate	50.080.04.2	Flat head screw
		kit 'Réglage chrono'		kit 'Chrono adjustment'
60		Ressort d'embrayage, 2 fonctions	L100.8320	Clutch spring
61		Sautoir du compteur de minutes	L100.8270	Minute counter jumper
62		Vis à tête plate	50.080.04.2	Flat head screw
63	Var	Masse oscillante, montée	L100.1143.1	Oscillating weight, assembled
	Var	kit 'Masse'		kit 'Oscillating weight'
63.1	Var	Masse oscillante	L100.1497	Oscillating weight
64		Roulement à billes	L100.1497	Ball bearing
65		Verrou de masse oscillante	L100.1491	Oscillating weight bolt
66		Vis à tête plate	50.080.16	Flat head screw
67	Var	Planche de calendrier, montée	L100.2551.1	Calendar platform, assembled
		kit 'Quantième' 1		kit 'Date' 1
68		Mobile de minuterie	L100.0260.1	Minute wheel
69		Roue intermédiaire de quantième	7750.2543.1	Intermediate date wheel
73		Roue entraîneuse quantième	7750.2556.1	Day and date drive wheel
70		Chaussée entraîneuse	L100.0240.1	Driving pinion, assembled
	Var	kit 'Aiguillage' 3/3		kit 'Set of hands' 3/3
71		Chaussée sur centre	7750.0243	Cannon pinion
72		Roue des heures	7750.0255	Hour wheel
74		Mobile compteur d'heures monté	7750.8600	Hour counting wheel
		kit 'Chrono'		kit 'Chrono'
75		Bloqueur cpt. d'heure	7750.8690.01	Hour counter lock
76		Marteau des heures	7750.8680	Set hour hammer
77		Commande marteau d'heures	8002.8670	Set hour hammer operating lever
78		Ressort du marteau d'heures	7750.8730	Hammer spring
		kit 'Vis' 4/4		kit 'Screw' 4/4
79		3x Vis à tête plate	50.080.01.2	Flat head screw

Liste des fournitures

List of components

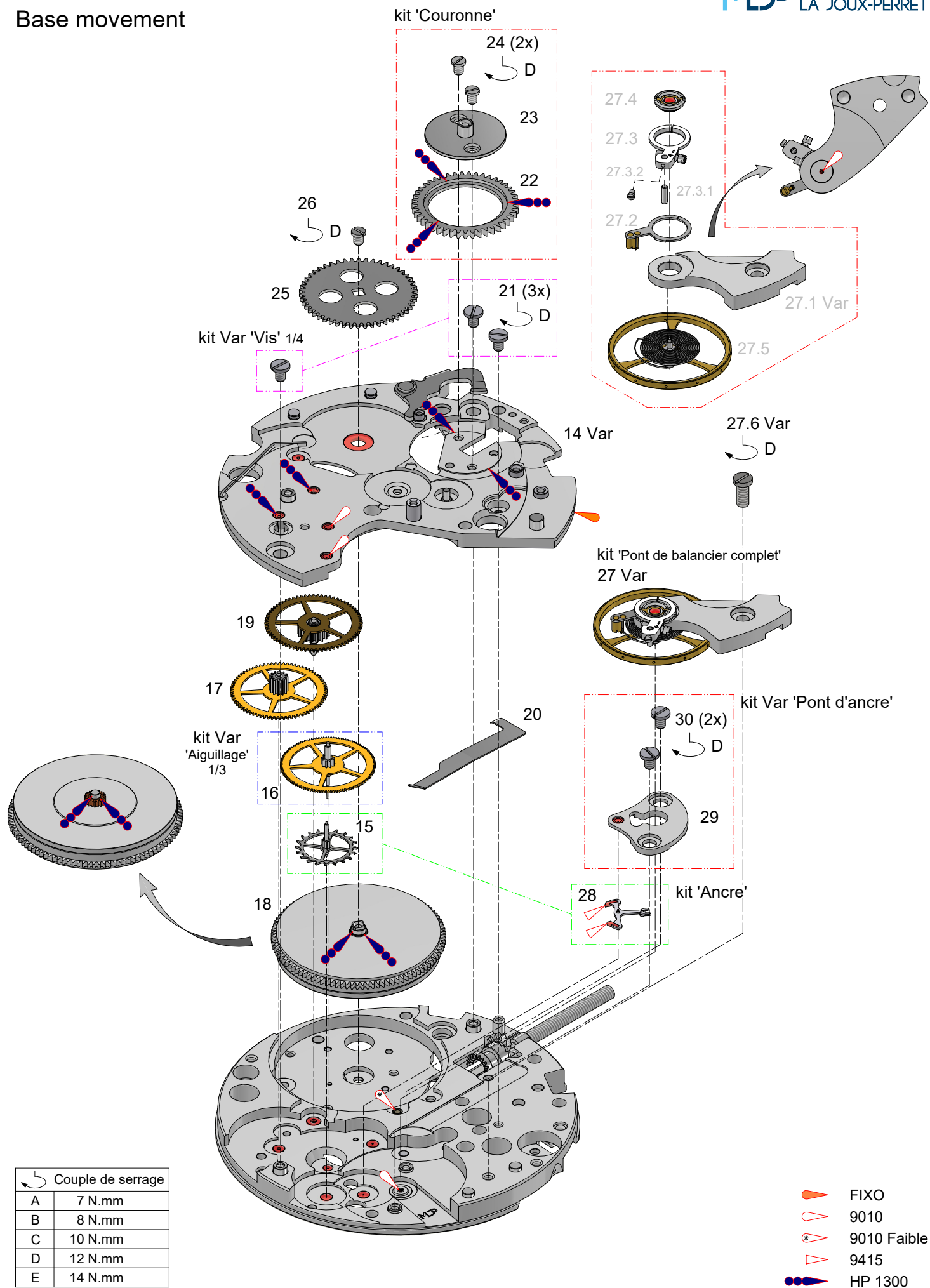
Réf.			Désignation	N° pièces	Designation
81	Var		Disque de quantième standard 3H	L100.2557	Date indicator
			kit 'Quantième' 2		kit 'Date' 2
80			Correcteur double	7750.2569	Double corrector
82			Sautoir de quantième	7750.2576	Date jumper
83			Sautoir des jours	7750.2577	Day jumper
84			Ressort de sautoir	7750.2611	Jumpers spring
			kit 'Plaques de maintien'		kit 'Date jumper maintaining plate'
85			Plaque de maintien de l' indicateur de quantième (1)	7750.2595	Date jumper maintaining plate (1)
86			Plaque de maintien de l' indicateur de quantième (2)	7750.2535	Date jumper maintaining plate (2)
87		3x	Vis à tête plate, conique	51.070.13.2	Flat head screw, countersunk
88	Var		Disque des jours	L100.2561.1	Day indicator, assembled
89			Entretoise bloqueur	8000.0010	Indicator distance piece
			kit 'Emboîtage'		kit 'Casing'
90			Bride d'emboîtage	L100.0166	Casing clamb
91			Vis à tête plate, conique	50.100.05.2	Flat head screw, countersunk



Couple de serrage	
A	7 N.mm
B	8 N.mm
C	10 N.mm
D	12 N.mm
E	14 N.mm

- FIXO
- 9504
- HP 1300

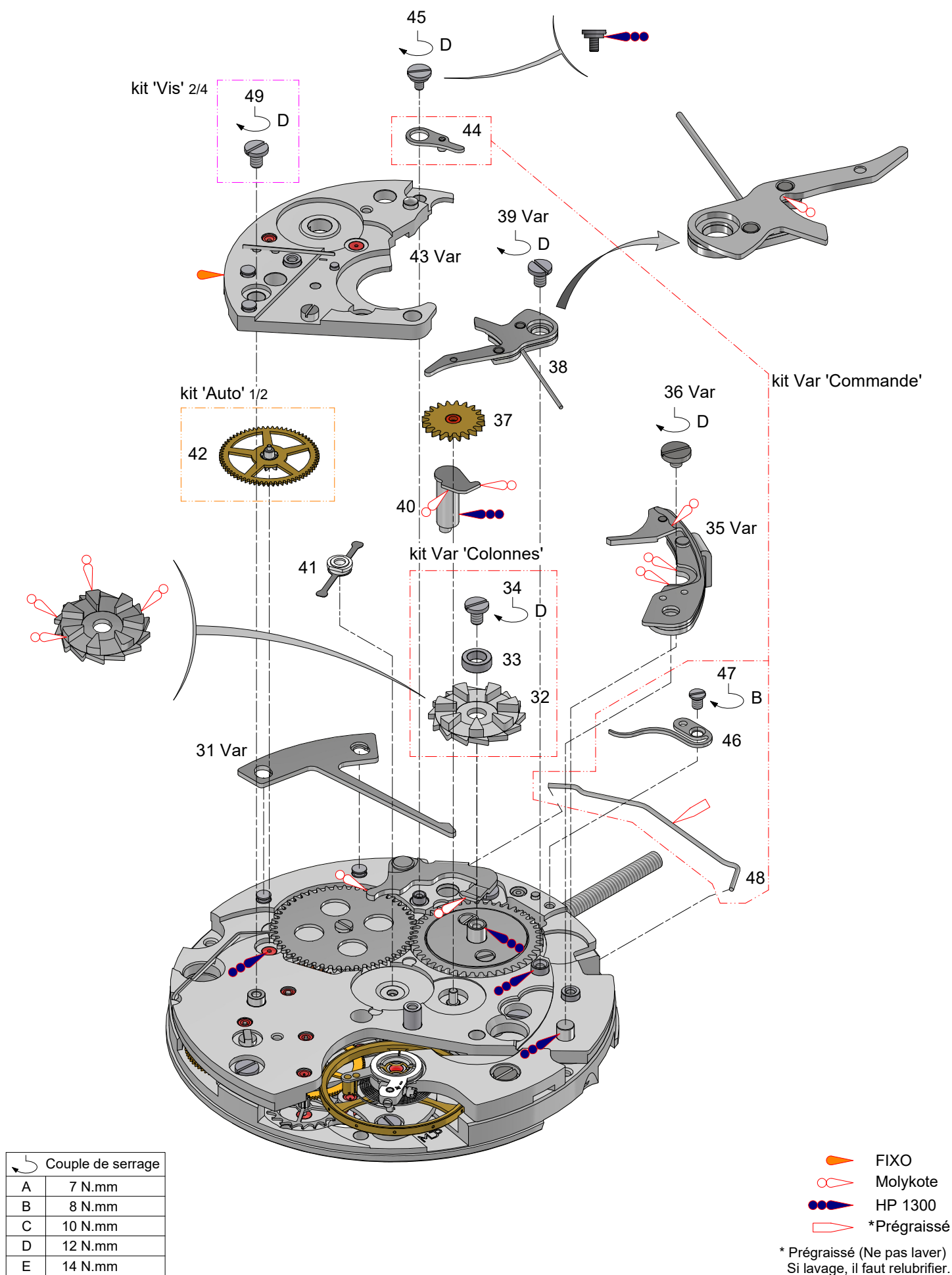
Mouvement de base Base movement



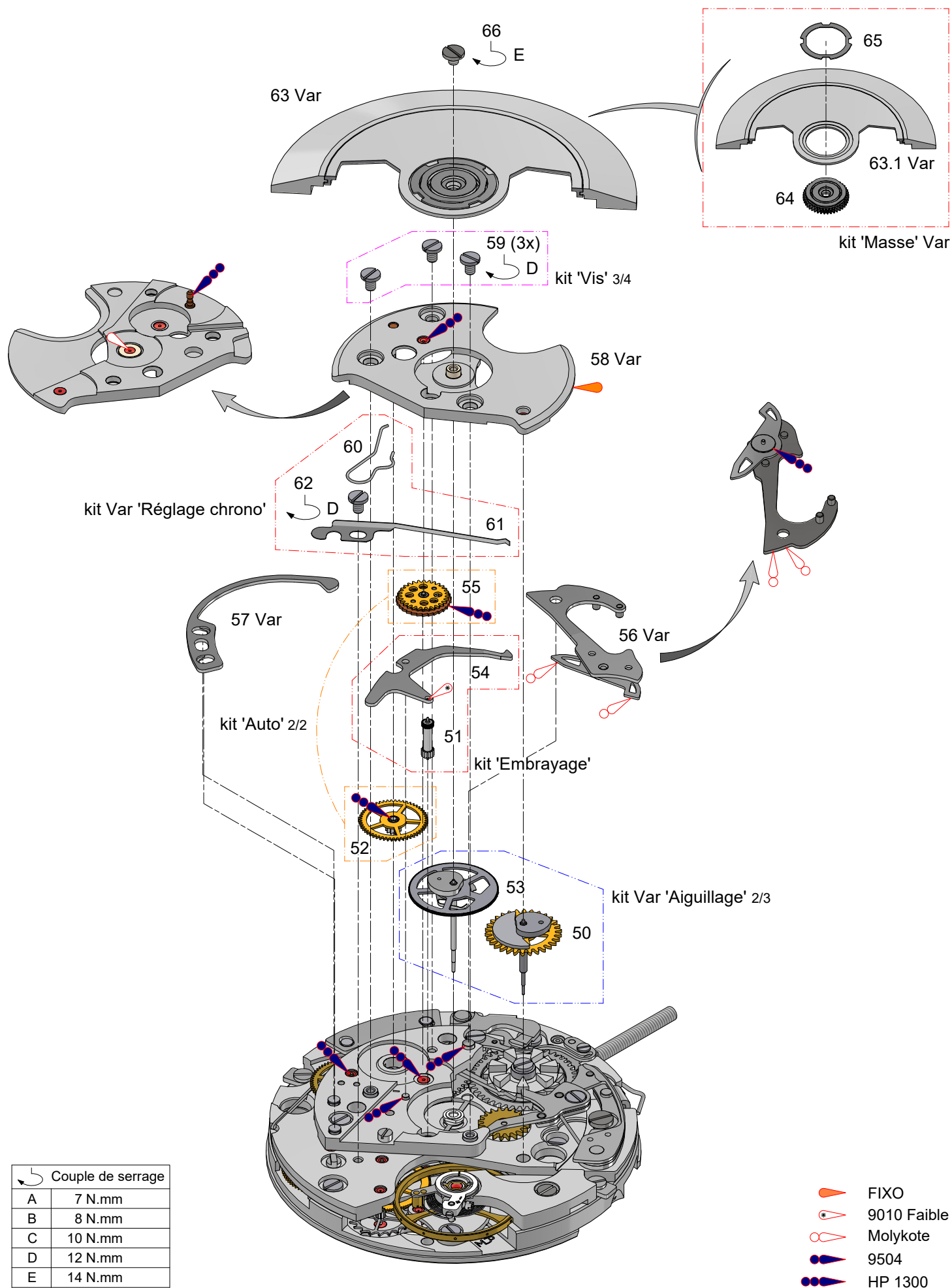
	Couple de serrage
A	7 N.mm
B	8 N.mm
C	10 N.mm
D	12 N.mm
E	14 N.mm

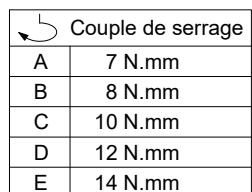
- ▶ FIXO
- ◁ 9010
- ◁ 9010 Faible
- ◁ 9415
- ▶ HP 1300

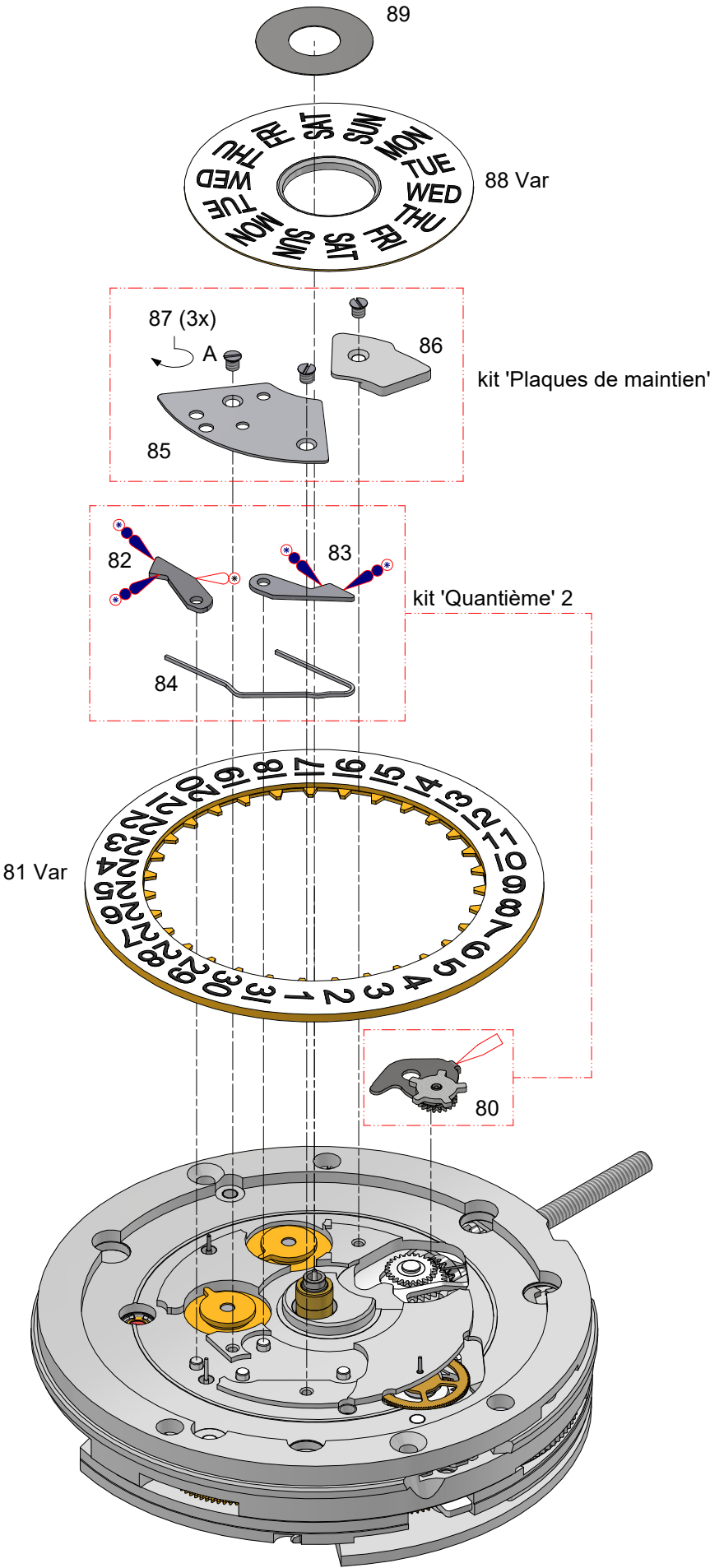
Module automatique et mécanisme de chronographe Automatic module and chronograph mechanism



Module automatique et mécanisme de chronographe Automatic module and chronograph mechanism







Couple de serrage	
A	7 N.mm
B	8 N.mm
C	10 N.mm
D	12 N.mm
E	14 N.mm

Molykote Faible
HP 1300 Faible
* Prégraissé
* Prégraissé (Ne pas laver)
Si lavage, il faut relubrifier.

Réglage du doigt du compteur de minutes Adjustement of the minute counter finger

Réglage du doigt du compteur de minutes

Le contrôle et l'ajustement de la position du compteur de minutes se font en position de retour à zéro (figure 1).

Dans cette position:

- le marteau (56) appuie sur les coeurs,
- le sautoir du compteur de minutes (61) est en appui contre le pont de chronographe (43 var),
- régler le sautoir du compteur de minutes (61) centré entre 2 dents de la roue compenseuse de minutes (50) au moyen de excentrique (43.1) (voir détail A),
- vérifier le jeu de 0,02 mm entre le doigt de la roue de chronographe (53) et la roue entraîneuse du compteur de minutes (37) voir détail B).

La force du sautoir doit être minimum, tout en assurant un saut net.

Entraînement du compteur de minutes (figure 2)

- le milieu du plan d'impulsion du doigt entre en contact avec la dent de la roue (voir détail C),
- après le saut du compteur, le coude du doigt effleure la dent de la roue entraîneuse et rattrape le jeu d'engrenage avec la roue du compteur (voir détail D).

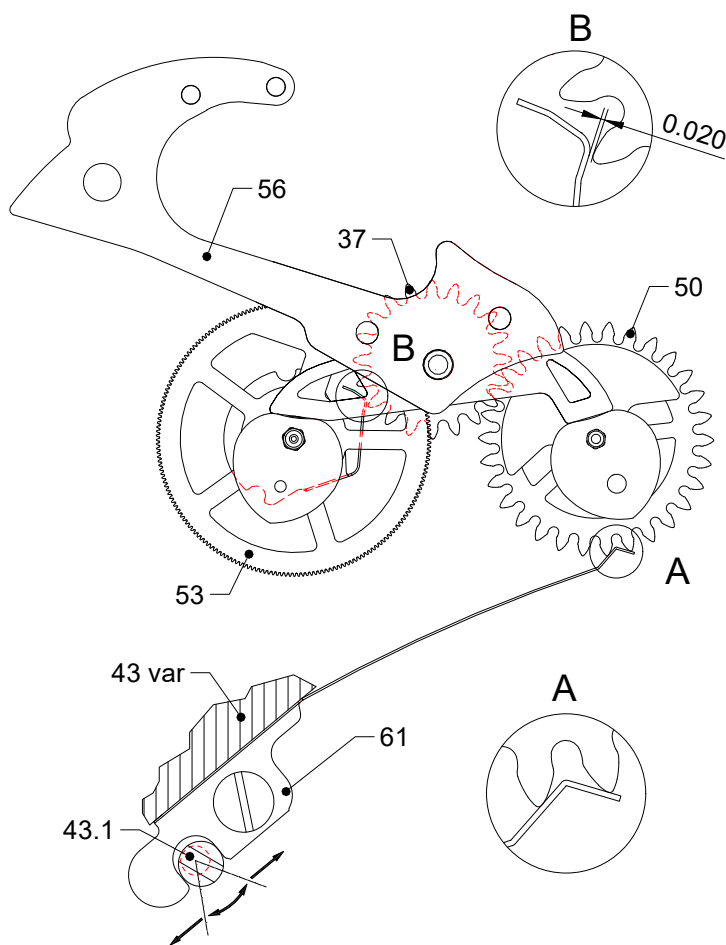


Figure 1

Adjustement of the minute counter finger

The control and adjustment of the position of the minute counter are made in the reset to zero position (figure 1).

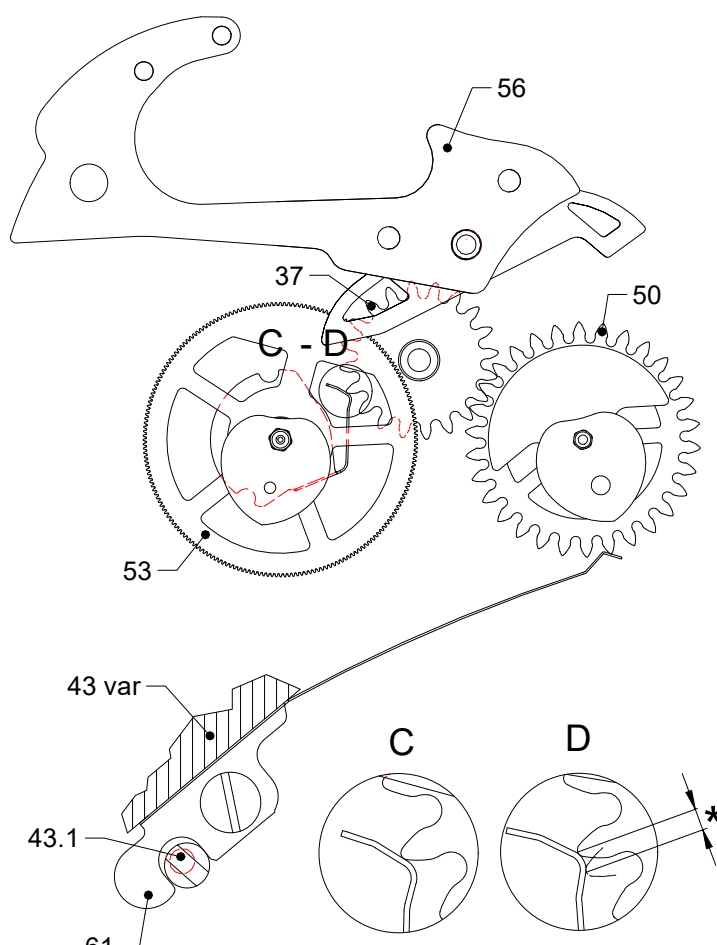
In this position:

- the hammer (56) makes contact with the heart-pieces,
- the minute counter jumper (61) is in contact with the chronograph bridge (43 var),
- adjust the minute counter jumper (61) centred between 2 teeth of the minute counting wheel (50) using the eccentric (43.1) (refer to detail A),
- check the clearance of 0,02 mm between the finger on the chronograph wheel (53) and the minute counter driving wheel (37) (refer to detail B).

The force exerted by the jumper must be minimal, while still assuring a clean jumping action.

Driving the minute counter (figure 2)

- the centre of the finger impulse plane must be in contact with the tooth on the wheel (refer to detail C),
- after the counter has jumped, the elbow of the finger touches the driving wheel and compensates the gear backlash with the minute counter wheel (refer to detail D).



*Jeu de la denture / Gear backlash

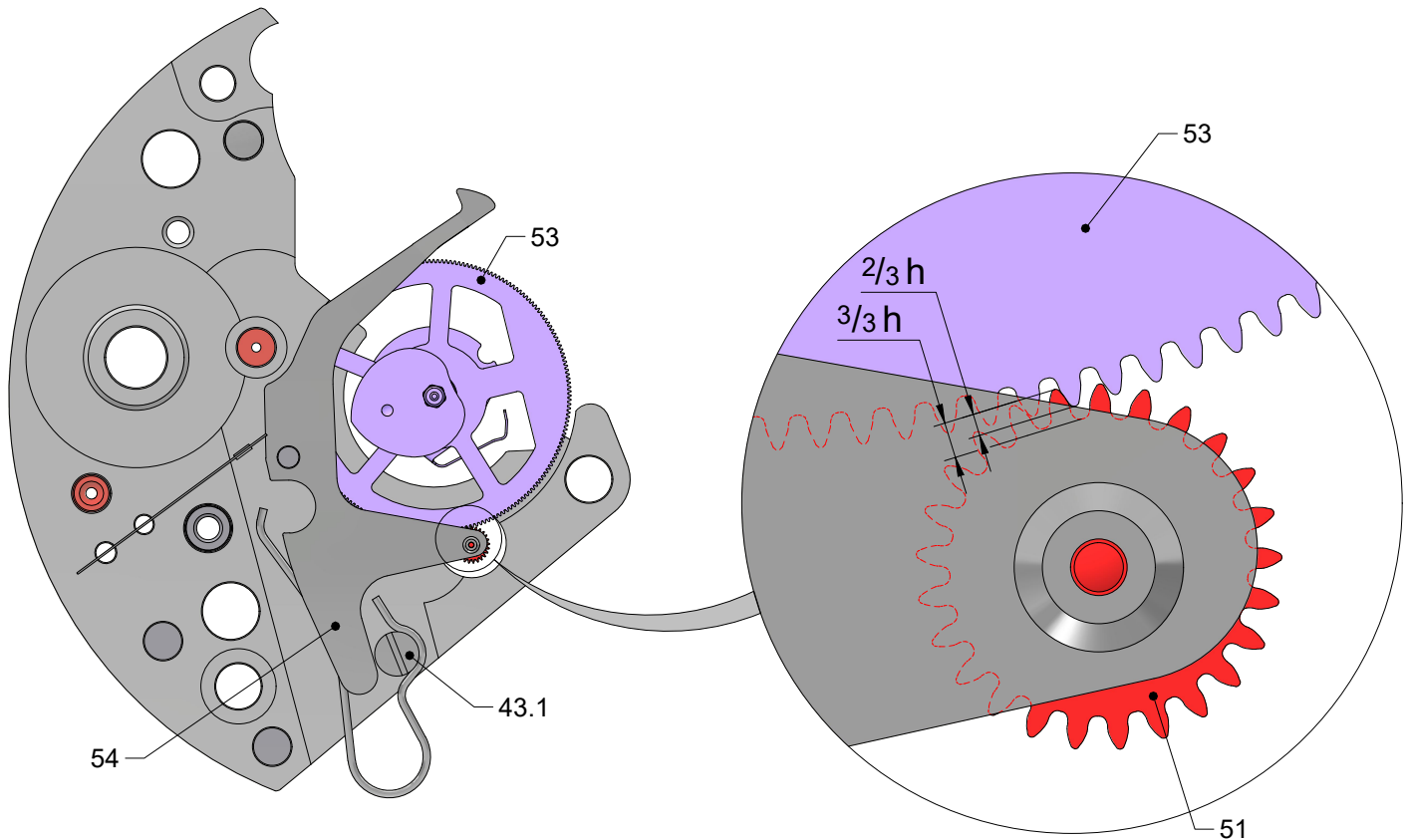
Figure 2

Réglage de l'engrenage de la roue de chronographe avec le pignon oscillant

Régler la pénétration des dentures selon la figure ci-dessous au moyen de l'excentrique (43.1).
Contrôler (après réglage) sur une révolution complète de la roue de chronographe (53).

Adjusting the gear of the oscillating pinion meshing with the chronograph wheel

Adjust the depth of the toothing using the eccentric (43.1), as shown in the diagram below.
Check the adjustment by turning the chronograph wheel (53) all the way round.



Chaussée entraîneuse No 70

La chaussée entraîneuse doit être chassée sur son tenon 5/100 de mm en retrait de la platine.

Driver cannon pinion No 70

The driver cannon pinion must be driven on its stud 5/100 mm away from the main plate.

