

TECHNICAL GUIDE & PARTS CATALOGUE Cal.NH3 Series

AUTOMATIC MECHANICAL

THE MODULE PARTS CATALOGUE / TECHNICAL GUIDE Cal.NH3 Series

[SPECIFI	CATION	1]					Version-02				
Movement											
Outside diameter			Φ27.40mm								
Moveme siz	nt ce Casi	ing diameter	ϕ 29.36mm (with (dial holding space	r)						
	Tota	Il height	5.32mm								
Cal. No.	-		NH35	NH36	NH37	NH38	NH39				
	3Hand	S	0	0	0	0	0				
Time	(nour, n	ninute, second)	0	0	0						
indicatior	Dav ca	lendar	-	0	-	-	-				
	24hou	r indicator	-	-	0	-	0				
	Manua	al winding	0	0	0	0	0				
	Autom with ba	atic winding	0	0	0	0	0				
Basic function	Time s	etting with	0	0	0	0	0				
Turiotion	Date d	isplay with	0	0	0	-	-				
	Day dis	splay with	-	- 0		-	-				
Frequenc	TQUICK C	Inange	21 600 vibrations	ner hour							
Trequent	Stati	c accuracy	-20~+40 seconds per day * Measurement should be done within 10~60 minutes after fully wound up. * All measurements are made without the calendar in function.								
	Mea: posit	surement	Direction of 3 positions. (1) Dial up (2) 9 o'clock up (3) 6 o'clock up								
	Lift a	ingle	53 deg.								
Accuracy	/ time	surement	* Equipment to be used : Witschi WATCH EXPERT								
	Post differ	ure rence	 * Measurement should be done within 10~60 minutes after fully wound up. * Direction of 4 positions. (1) 10 states (0) 0 states (0) 0 states (0) 0 states (1) 0 s								
	lsocł (24h	nronisms -0h)	-20~+40 seconds per day. * Measurement position : Dial up * Difference of static accuracy of 24h and 0h								
Duration	lime		More than 41 hou	rs Mainspring a	Ifter fully wound up).					
Duration time			* Posture to confirmation : Dial up								
Winding the mainspring			Fully wound up by turning the crown minimum 55 times. Fully wound up by turning the ratchet wheel screw 8 times.								
			< Complete Watch >> A winding machine is needed to wind up the mainspring. Full wind up conditions • Rotary speed : 30 rpm								
Jewels			24 jewels								
	Normal	Left rotation			Free Manual winding						
Crown position	First	Left rotation	Date setting	Date setting	Date setting	Time settina with s	stop-second device				
	click	Right rotation	Free	Day setting	Free		,				
	Second	click	Time setti	ing with stop-seco	nd device		-				









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PARTS CATALOGUE

Version-04 Cal.NH3 series

(2)	Day st	ar wit	h dial	disk .	Cal.N	H36 o	nly (P-	2)							
Ŭ	Parts code Position of crown		Positi day fr	on of ame	Со	lor of le	etters	Co bacl	olor o kgrou	f nd	Langu	age			
	0160 242		Зŀ	3H		 	MON~ SAT SUN		FRI : Black : Blue : Red		White		English & Spanish		
6	Date d	lial	Cal.NI	-135 / I Pos	NH36 / sition	NH37 Posit	(P-2) ion of	Col	or of	Colo	or of				
:	Cal. Parts		s code of c		rown	day frame		let	ters	backg	background White				
	NH37	087	8 208		3H		H	Black		Wł					
	NH36	087	8 206	3	3H 3I		H	Bla	Black		White				
18	Canno Cal.	n pin Parts	ionl s code	VH35 / Cal.	36/37 (Part	P-3) s code		Cani	non pin . Parts	ionN s code	H38 Cal	/ 39 (P . Pa	-4) arts code		
	NH35 NH36	022	5 416	NH3 ⁻	7 022	25 417		NH3	8 022	5 416	NH3	9 02	225 417		
(1)	Oscilla	ating	weight	with	ball be	aring ((P-5)				u				
Cal.	Part	s cod	e N	<i>l</i> larkin	g	Cal.	Parts	s code	Ma	rking		Cal.	Parts co	de N	larking
NH3	050	9 467	Japa	n mar	k	NH36	050	9 463	Japan	mark		NH37	0509 47	70 Japa	n mark
	050	9 468	Mala	ysia n	nark	050)9 464 Malaysia		ia mark	a mark		0509 47	71 Mala	ysia mark
Cal.	Part	s cod	e N	<i>l</i> larkin	g	Cal.	Parts	s code	Ma	rking					
NH3	0509 476 Japan mark 0509 477 Malaysia mark				NH39	050 050) 473 Japan m) 474 Malaysia		mark ia mark	1ark a mark					
(8-1) Bala	nce c	omple	te witl	n stud	(P-5)		20) Fo	urth wh	eel an	 d pin	ion (F	P- 6)		
	Cal.	Parts	s code	Cal.	Part	s code		C	al. Pa	rts cod	e C	al.	Parts code	Э	
	NH35 NH36 NH37	031	0 197	NH3 NH3	B 9 031	0 198		NH NH	135 136 01 138	44 184		137 139	0144 185		
(27)	27 Center wheel and pinion 30 Yoke (P-7)														
\bigcirc	with cannon pinion (P-7)														
	Cal. NH35	Parts	s code	Cal.	Part	s code		NF NF	135 136 03	384 183		138	0384 184		
	NH36 NH38	022	4 184	NH3	9 022	4 185		NF	137			103			
31	Setting	g leve	r (P-7)				-								
	Cal. NH35	Parts	3 195	Cal. NH3	Part	s code	-								
	NH37	030	0 100	NH3	9	001 00									



PARTS CATALOGUE

Version-02 Cal.NH3 series

Re	Remarks: Different parts for each CAL.													
Pa	ne	No			Cal.		-	Parts code		Parts name			Parts form	
ια	ge	NO	NH35	NH36	NH37	NH38	NH39		·	i uno nume		i ai	13 101111	
			0	-	-	-	-	0273 182	Ho	ur w 73 1	/heel 82 ⇒ 0273	184	0273	182 &184
P-3	3	14	-	0	-	-	-	0273 183	021	(Height difference)		nce)		
			-	-	0	-	-	0273 184				0273 ⁻	183 & 185	
Б	4	(S	-	-	-	0	-	0273 183	027	0273 183 ⇒ 0273 185 (Height difference)		and the second	Un and a start	
Γ-	4	9	-	-	-	-	0	0273 185				ABABABA	WMMM BE	
P-3	3	16	0	0	-	-	-	0817 300	Inte and	erm I pii	ediate date nion	driving wheel	97 07	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	5		-	-	0	-	0	0017 300	Inte and	erm I pii	ediate 24ho nion	our wheel	ALBE	
			0	0	-	-	-	0802 183	Dat	te ir	ndicator driv	ring wheel	2 Constant of the second secon	ANANA ANA ANA ANA ANA ANA ANA ANA ANA A
P-3	5		-	-	0	-	-	0157 182	24ł	noui	wheel		2 Constanting of the second second	Here Beer Proving
	■ List of screw													
Page	Page No Parts code Parts name Pa			arts form F	⊃age	No	Parts code	Parts nam	е	Parts form				

Page	No	Parts code	Parts name	Parts form	Page	No	Parts code	Parts name	Parts form
P-2	4		Date indicator maintaining plate screw (x4)		D3	െ	0012 485	Guard for day-date corrector setting	
P-4	1		Hour wheel guard screw (x4)		F-3 3		0012 400	transmission wheel screw (x2)	
P-5	2	0012 354	Automatic train bridge screw (x2)		P-5	P-5 (5)	0012 919	Ratchet wheel screw	
10	9	0012 001	Pallet bridge screw (x2)						
P-6	(19)		Lower plate for barrel and train wheel bridge screw		P-5	7	0012 420	Balance bridge screw	
P-7	24)		Center wheel bridge screw		P-6	(12)		Barrel and train wheel	
P-7	28	0012 168	Yoke spring screw (x2)						



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TECHNICAL GUIDE

Version-01 Cal.NH3 series





Contact part of main plate and balance stop lever

2.Setting position of oscillating weight

•Before assembling oscillating weight.

Match the center of the oscillating weight and winding stem. Set the hole of first reduction wheel gear on the imaginary line toward the balance bridge guide pin.





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7.To wind up the mainspring

<<Movement>>

The mainspring would be fully wound up by turning the ratchet wheel screw 8 times clockwise. (Manual winding or Screwdriver) Manual winding ... Rotate crown clockwise at normal position by min 55 times. (Equal to ratchet wheel screw 8 times) Screwdriver winding ... Turn the ratchet wheel screw 8 times clockwise.



8. How to attach hands

Place the movement directly on a flat metal plate or something similar to attach the hands.

We recommend the use of movement holder to attach hands.

For hands attachment, please use a special equipment.

When the movement receives a strong shock, it may be damaged.

*Install the 24hour hand. ...Cal.NH37 & NH39

Pull out the crown to the second click position and rotation it clockwise to install 24hour hand.



9. Accuracy measurement condition

Static Accuracy : -20~+40 seconds per day

Measurement Conditions

- 1) Measurement should be done within 10~60 minutes after fully wound up.
- 2) Lift angle : 53 deg
- 3) Measurement position : (1) Dial up (2) 9 o'clock up (3) 6 o'clock up
- 4) Minimum measurement Time : 20 seconds
- 5) Stabilizing Time :

Leave the watch for at least 20 seconds to stabilize after you change its measurement position.

10. About the handling ... Cal. NH38 & 39

O Part is processed as a mirror surface. It is damaged when touching with tweezers. Please be careful about the handling.



OPERATION



Time indication	NH35	NH36	NH37	NH38	NH39
3Hands (hour, minute, second)	0	0	0	0	0
Date calendar	0	0	0	-	-
Day calendar	-	0	-	-	-
24hour indicator	-	-	0	-	0

1.How to set the time

- 1) Pull out the crown to the second click position. ...Cal.NH35 & NH36 & NH37 Pull out the crown to the first click position. ...Cal.NH38 & NH39
- 2) Turn the crown to set hour and minute hands. (Check that AM / PM is set correctly.)

3)Push the crown back into the normal position.

2.How to set the Date ... Cal.NH35 & NH36 & NH37

- 1) Pull out the crown to the first click position.
- 2) Turn the crown to left for date setting.
- 3) Turn the crown to right for day setting. ...Cal.NH36 only

*Do not set the date between 9:00 P.M. and 4:00 A.M. as this will cause a malfunction.

3)Push the crown back into the normal position.

3.To wind up the mainspring

- a) Manual winding ... Rotate the crown clockwise at normal position. Wind turning the ratchet wheel screw 8 times. It will start to move naturally after shaking slightly.
- b) To wind up with winding machine.
 - Full wind up conditions
 - Rotary speed : 30 rpm
 - Operating time : 60 rpm