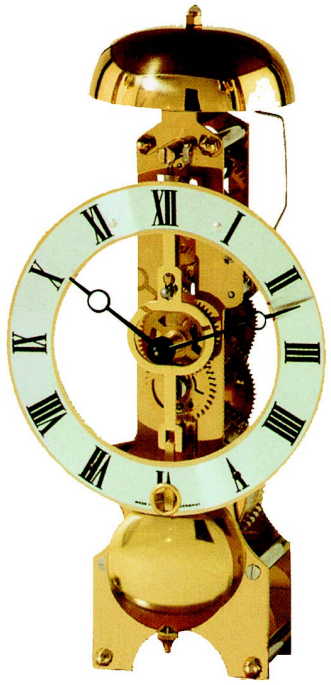
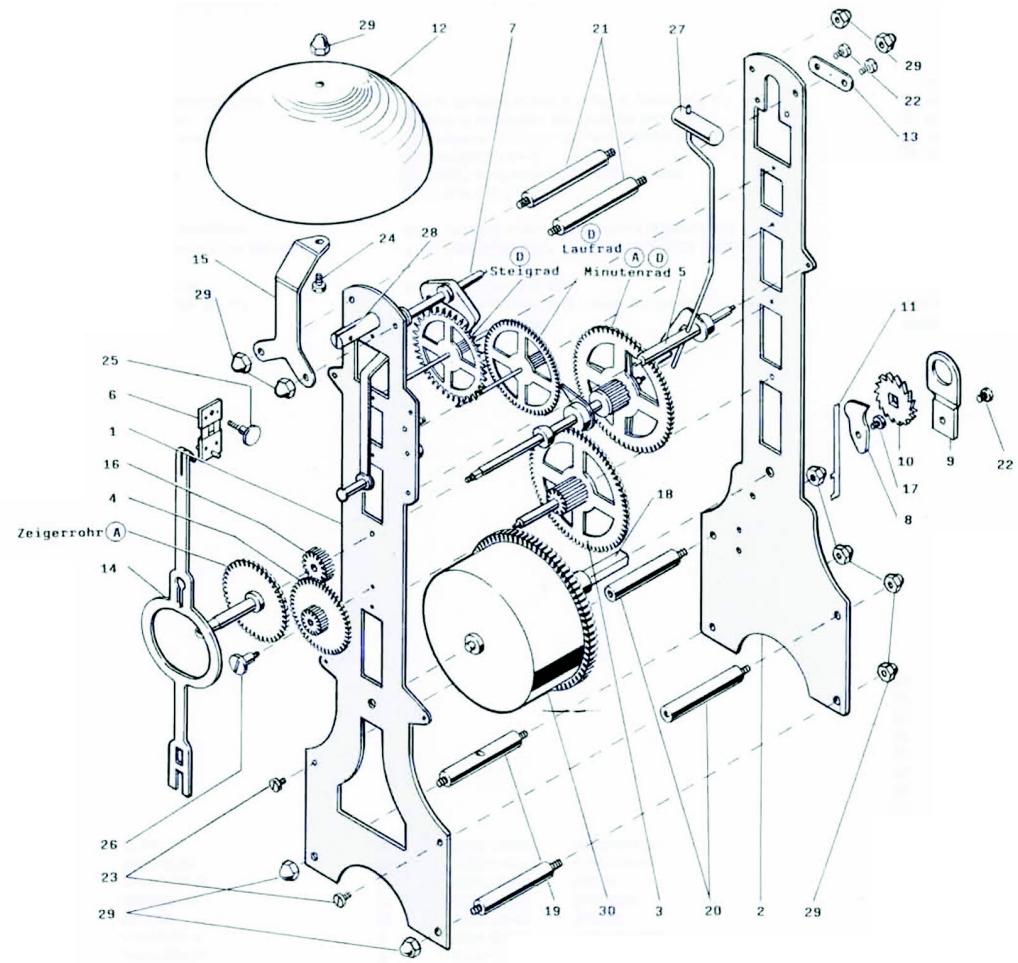
Hermle 791.081





W0791.081
8 DAY SPRING WOUND 1/2 HOUR STRIKE / PENDULUM MOVEMENT
Single hammer strikes Brass Bell on top of movement
108 mm Chapter ring
Hand shaft length 27.5mm. Height 215 mm

Hermle 791.081

Pos.	Bestell-Nr.	Bezeichnung
1	B001-01060	Vorderplatine
2	B001-01080	Hinterplatine
3	B007-00030	Satzrad
4	B012-00182	Wechselrad
5	B016-02351	Hammerwelle
6	E021-01000	Pendelfeder
7	B024-00730	Anker
8	E001-00020	Sperrkegel
9	E001-00050	Sperradbrücke
10	E001-03140	Sperrad
11	E001-04730	Sperrfeder
12	E002-04340	Glocke
13	E002-04860	Ankerbrücke
14	E002-04880	Pendeloberteil
15	E002-04890	Glockenträger
16	E004-03740	Minutentrieb
17	E005-00030	Sperrkegelniete
18	E005-02370	Walzenstift
19	E005-06380	unterer Werkfpeiler
20	E005-06390	Werkpfeiler
21	E005-06400	oberer Werkpfeiler
22	E006-00010	Zylinderkopfschraube
23	E006-00150	Zylinderkopfschraube
24	E006-00900	Zylinderkopfschraube
25	E006-01150	Pendelfederschraube
26	E006-01360	Wechselschraube
27	E007-00140	Hammer
28	E007-07120	Pendelpfostchen
29	E008-00760	Hutmutter
30	B013-90100	Federhaus
		Minutenrad (A) (D)
		Laufrad (D)
		Steigrad (D)
		Zeigerrohr (A)

Bestellhinweise!
Bei Ersatzbestellung verwenden Sie bitte die auf der Zeichnung angegebene Teilenummer

Bei Teilen mit eingekreistem Buchstabe sind die Bezeichnung, die Werknummer und folgende Daten anzugeben

(A) Länge -L- (in mm)
(B) Länge -L- der Ankerbrücke (in mm)
(C) Durchmesser (in mm)
(D) Pendellänge (in cm), siehe Hinterplatine
(E) Herstellungsjahr, siehe Hinterplatine
(F) Besondere Hinweise in der Stückliste beachten!

Order Instructions!
When ordering spare parts please use the part number indicated on the drawing

If you order spare parts with a letter in a circle, please let us know part name, the movement reference and

(A) Length -L- (in mm)
(B) Length -L- of suspension bridge (in mm)
(C) Diameter (in mm)
(D) Pendulum length (in cm), see stamp on back plate
(E) Year of production, see stamp on back plate
(F) Pay attention to special notes, in spare parts list.

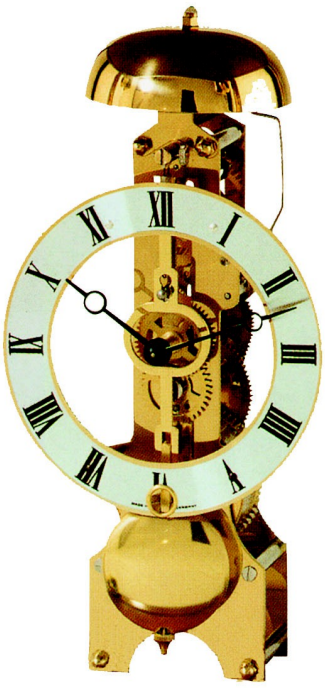
Instructions de commande!
Si vous commandez des fournitures, veuillez indiquer le numéro de la pièce citée sur le croquis.

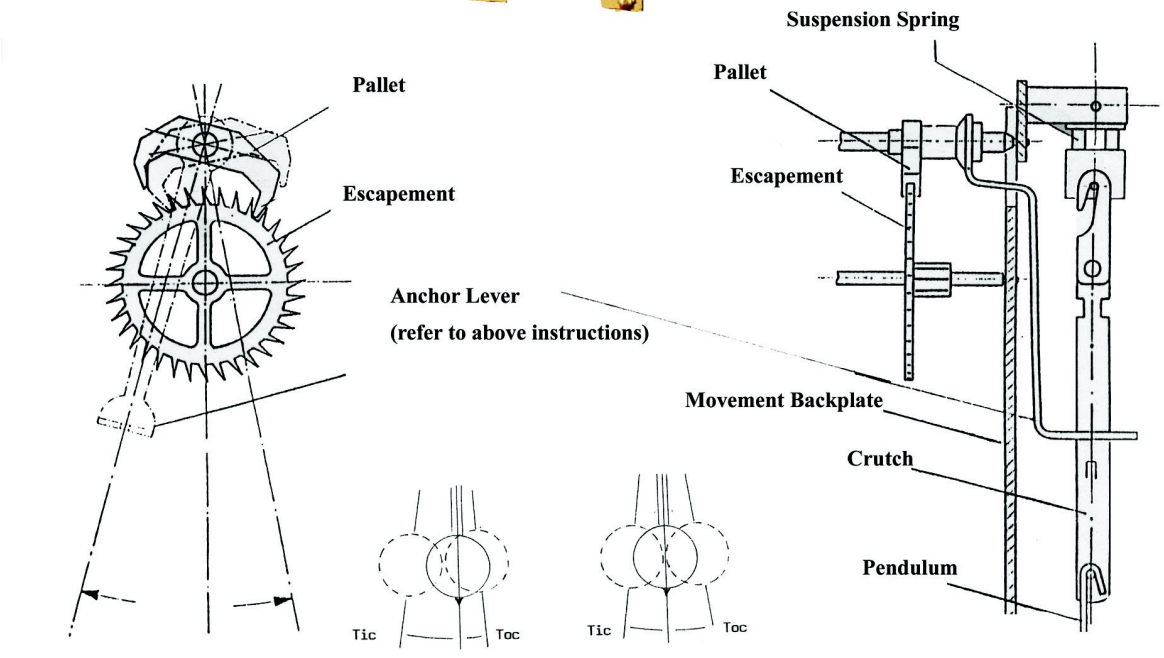
Si vous commandez des fournitures avec lettre en cercle, veuillez indiquer la dénomination, la référence

(A) longueur -L- (en mm)
(B) longueur -L- du pont de suspension (en mm)
(C) diamètre (en mm)
(D) longueur du balancier (en cm), voir indication platine arrière
(E) année de production, voir indication platine arrière
(F) veuillez observer les indications spéciales dans la liste de fournitures.

Prepared by CMI

DIMENSIONS AND ADJUSTMENTS





A smooth and balanced pendulum swing will generate an even TIC TOC sound, (50% Tic - 50% Toc) If the swing is not balanced (70% Tic - 30% Toc) the clock will eventually slow and stop. Listen carefully when performing set up.

Adjusting Pendulum Length: (Time keeping)

At the base of the Pendulum is an adjustable nut on a long thread. The length of the Pendulum can be varied by turning the nut in one direction or the other. It is best to make small adjustments (a few turns only) when starting, and to reduce the number of turns used as the accuracy of the timepiece improves from minutes to hours and on to days and weeks. It may be necessary to make this adjustment every few months to compensate for tempreture changes and seasonal variations.

PROCEDURE

The instructions tendered in this document are intended to aid you in the setup and operation of a 130.070 movement. It is recommended that you assemble and adjust the operation of the movement **before installation**. Using a timber blank, follow the instructions below to establish the correct operation of the timepiece.

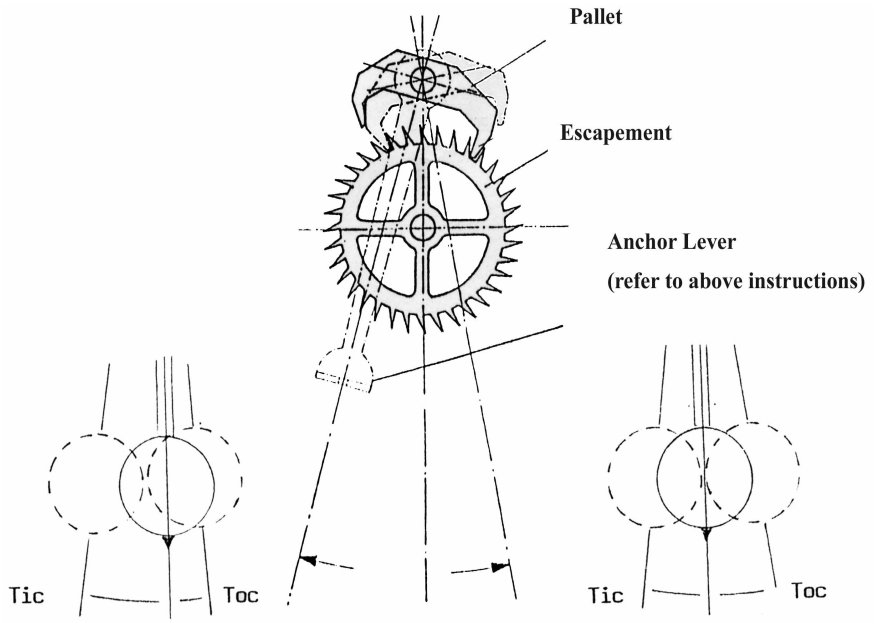
(See dimensions and adjustments)

1. Fix the Movement in position
2. Install the Pendulum
3. Check clearances and operation
4. Install Hands

When you are satisfied that the movement is fixed securely in position and that the pendulum is fitted correctly, you may start the adjustment procedures listed below.

Automatic Beat Adjustment:

To begin, start the pendulum swinging.
When the Pendulum is swung wider than its normal working distance, the **Pallet** (on top of the movement) will slip on its shaft, as the exaggerated swing reduces, the Pallet ceases to slip, remaining in a new centrally fixed position.
The result is a balanced period of time marked by the swing of the **Pallet** and the audible **TIC.. TOC..** produced as the **Escapement Wheel** turns.

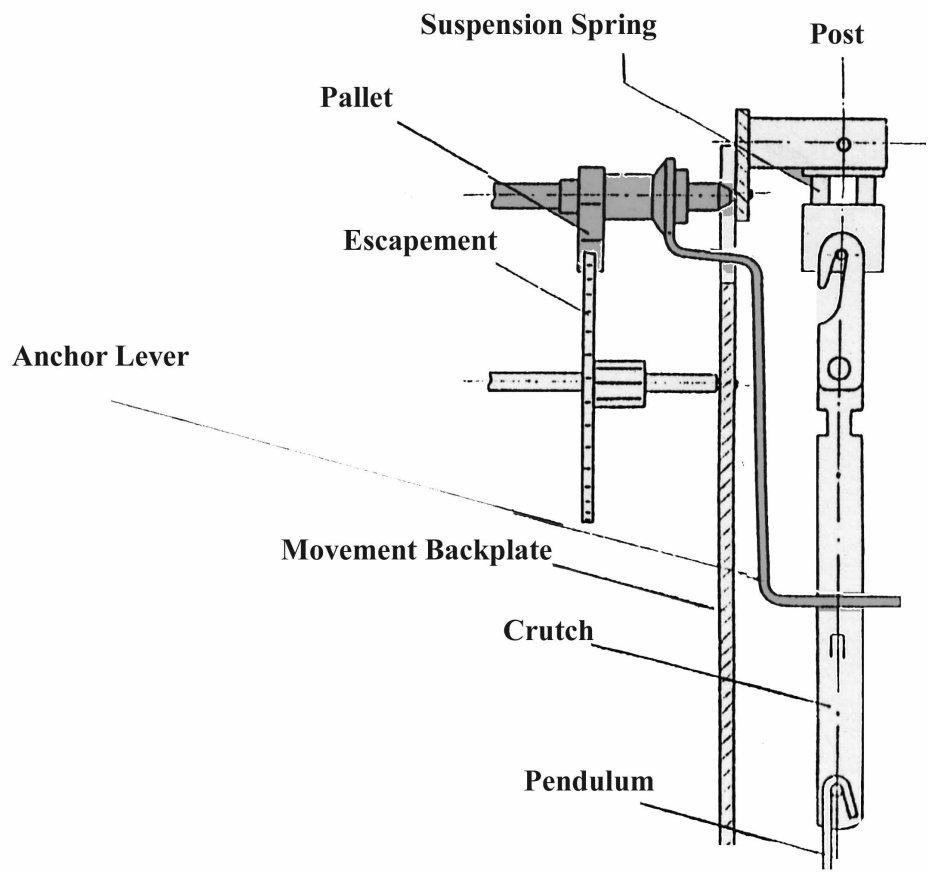


Note: After performing this adjustment the distance from the center to the **TIC** should be the same as the distance from the center to the **TOC.**

Manual Beat Adjustment:

In cases where the swing of the Pendulum is restricted you will have to adjust the **Anchor Lever** manually.

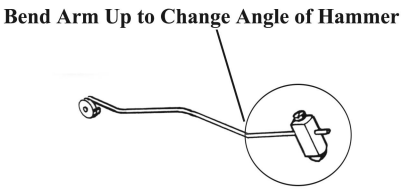
The **Anchor Lever** is attached to the shaft holding the **Pallet.** The two are held in position by a friction bush. If the Pallet is held still, the **Anchor Lever**'s position on the shaft can be adjusted manually. The relationship between the Pallet and the Anchor will require many small adjustments over an extended period of time. The adjustment is completed when the Anchor Lever swings continuously and with an even beat.



Note: A correctly adjusted movement will run smoothly and continuously, producing a balanced and familiar sound. Poorly adjusted movements seldom run for very long and produce notably different sounds.

Adjusting The Strike Hammer:

The position of the Strike Hammer and the angle at which it strikes the gong is crucial to the production of a quality resonant tone, take care when positioning the Strike Hammer that it does not foul any part of the Crutch, Pendulum or Post, either at rest or during its Strike action. The hammer head should rest approximately 2 – 3mm above the Gong to prevent any unwanted damping of sound.



Note: Consider the action you must take before bending the Strike Arm and use tools to shape corners rather than fingers to bend curves.

Automatic Synchronization:

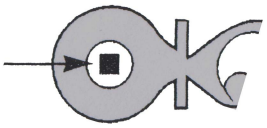
The Striking of the hour and ½ hour is determined automatically by the movement, the movement must run for a minimum of one hour after any manual adjustments or stoppages are made before the Synchronization is completed

Note: Run the movement for a few hours and count the number of strikes

Adjusting Hand Position:

The Hour Hand has a round bush and is a push fit onto the movement, it can be adjusted to any position on the dial. The Minute Hand has a square bush and can be installed in four positions, **only one of which is correct**. (¼ , ½ , ¾ or 1 hour)

After the movement has run for up to 2 hours, note the next hour to be struck. (IE: If the movement strikes 2 o'clock) and reposition both hands accordingly.



Note: The movement must be running and chiming correctly before you attempt to install the hands.

Adjusting Pendulum Length:

At the base of the Pendulum is an adjustable nut on a long thread.
The length of the Pendulum can be varied by turning the nut in one direction or the other. It is best to make small adjustments (a few turns only) when starting, and to reduce the number of turns used as the accuracy of the timepiece improves from minutes to hours and on to days and weeks. It may be necessary to make this adjustment every few weeks to maintain accurate time keeping.

Note: The length of the Pendulum determines the speed of the clock..
(Longer = Slower / Shorter = Faster)

Installation:

To locate the exact position for mounting, **use the Center of the case width as a reference for the center of the Dial** . Adjust the position of the dial up or down to suit case height or door position. Follow the instructional diagrams in this booklet to locate the positions.

Provided you were successful in following the instructions and procedure outlined in this booklet you will now be familiar with the operation of your timepiece.

Install the movement to you completed timber case and repeat (if necessary), the steps already practiced for ensuring the correct and accurate operation of your Timepiece

Maintenance:

Provided with your clock movement is a small bottle of special High Grade Superfine Synthetic Clock Oil.
Oiling is a simple matter but it cannot be done without removing the dial and taking the movement out of the case. Every pinion hole must be oiled with one drop of oil, and any excess of oil must be wiped away when finished.
It is recommended that your movement be oiled and if necessary cleaned every 4 / 5 years, (More often for Coastal Areas due to salt build up and corrosion) regularly service movements will function perfectly for many years.....

Note: Check the operation of your timepiece at regular intervals, inspect all surfaces and pinion bearings for dust, dirt, corrosion and wear.