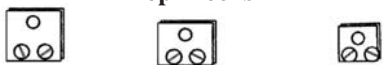


### 400-Day Suspension Parts

Complete with screws.

#### Top Blocks



No. 15663 7.5 x 8mm  
 No. 15664 8 x 6mm  
 No. 15665 6 x 5mm

#### Bottom Blocks



No. 15666 7.5 x 8mm  
 No. 15667 8 x 6mm  
 No. 15668 6 x 5mm

#### Forks



No. 15669 14mm  
 No. 15675 16.5mm  
 No. 15676 13.5mm



No. 15677 8.5mm  
 No. 15678 13.5mm  
 No. 15679 12mm

**\$3.00 each**      **\$8.25/ 3 (\$2.75)**  
**\$31.20/ 12 (\$2.60)**

#### Top Block, Bottom Block & Fork Assortment

12 assorted pieces. One of each from above.  
 No. 20440 **\$31.20 pack**

#### Cap Nuts-M3.5 & M4-Brass



12 cap nuts for quartz 2 sizes.  
 No. 18966 **\$2.00 pack**

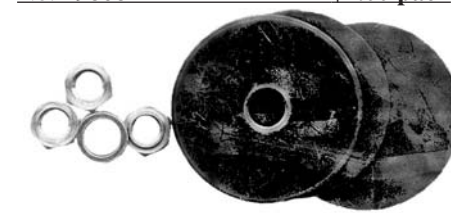
#### Quartz Movement Mounting Hardware Assortments



18 piece mounting nut and washers.  
 No. 19807 **\$1.50 pack**



12 piece hand nut assortment. Two sizes.  
 No. 19808 **\$1.00 pack**



3 each of 2 different mounting nuts and 3 rubber washers.  
 No. 19554 **\$1.50 pack**

#### Rubber Mounting Washer



12 rubber spacers in a package. 1" OD x 5/16" ID x 1/16" thick.  
 No. 18965 **\$1.50 pack**

### Mini Movement Covers



No. 15737      No. 19782

Provides a finished look to the back of movements listed on page 23.

For No. 19292 through 19298 Movements

No. 15737 ..... Solid Plastic **75¢ each**

For No. 17681 through 14402 Movements

No. 19782 ..... Solid Plastic **75¢ each**

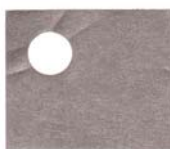
#### Nut Wrench -Quartz Movement



For quartz movement mounting nuts with 1/4", 5/16", 3/8" and 1/2" spans.

No. 19909 **\$8.75 each**

#### Movement Mounting Pad



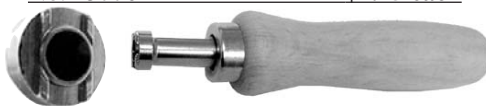
Double sided adhesive pad is used for mounting quartz movements. 1-7/8" square with center hole knock out.

No. 20325 **50¢ each**

#### Quartz Movement Mounting Nut Wrench



For 3/8" and 1/2" nuts.  
 No. 15770 **\$1.25 each**



For Hermle mounting nuts.  
 No. 20867 **\$10.00 each**

#### Brass Adapter Ring For Fit-Ups



Increase the mounting diameter of small fitups. Polished brass ring.

No. 16939 ..... 2-1/4" I.D. 2-3/4" O.D.  
**\$1.25 each**      **\$3.00/ 3 (\$1.00)**

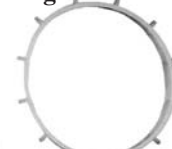
#### Shrink Ring



Fits 1-7/16" movements. Has a 1-5/8" outside diameter. Gold on one side, silver on the other.

No. 18481 **60¢ each**

### Mounting Ring



Flexible plastic ring is used as a compression spacer for fitups.

No. 19665 ..... 1-3/4" Dia. **\$1.00 each**

No. 20483 ..... 2-3/8" Dia. **\$1.00 each**

#### Fitup Holder



Brass holder for 1-7/16" diameter fit-ups.  
 No. 20480 **\$1.50 each**

#### Picture Frame Holder

Baby  
 Not  
 Included!



2" diameter. Brass.  
 No. 20485 **\$2.25 each**

#### Game Feeder Quartz 24 Hour Movement Kit



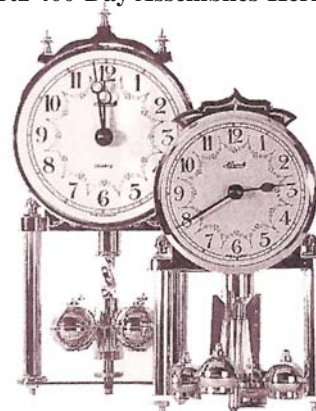
High torque movement measures 2-5/8" x 2-1/4" x 1-1/8" deep. The 2-1/2" diameter 24 hour disk includes 3 adjustable trippers. "C" battery is not included.

No. 22883 ..... **\$22.50 each**

**\$66.75/ 3 (\$22.25)**      **\$132.00/ 6 (\$22.00)**

#### Quartz 400-Day Assemblies-Hermle

NEW



Everything is included except the base and dome.

7-1/4" tall with a 3-1/2" diameter dial. Runs a year on one "AA" battery (not included). Requires a 4-5/8" x 8" dome.

No. 23557 **\$24.50 each**

6" tall with a 3-1/2" diameter dial. Runs a year on one "AA" battery (not included). Requires a 4" x 7" dome.

No. 23556 **\$18.50 each**

Non Pendulum Quartz Movements



No. 14576



No. 14530  
No. 19862



No. 19374



No. 20689  
No. 20690  
No. 20691



No. 23152



No. 19516



No. 23337



No. 19268  
No. 19269



No. 19426

Note: All quartz movements use "I" shaft hands listed on pages 68-70 except where otherwise indicated. Mounting hardware is furnished with each

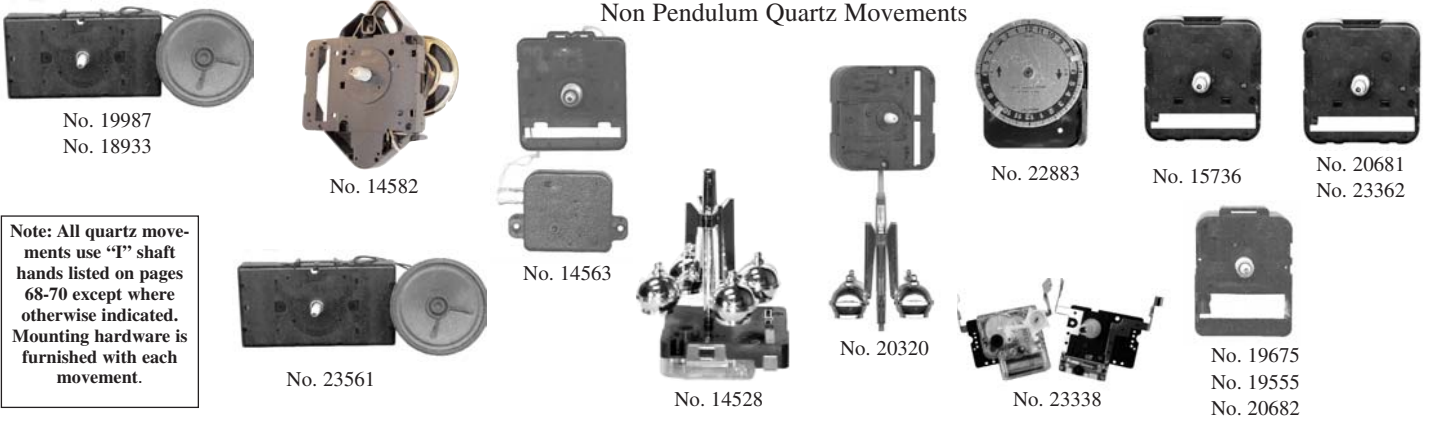
Part #	Movement Type (Non-Pendulum)	Movement Size	Mfr.	Handshaft Length	Max. Dial Thickness	Battery Type (not included)	Chime	Strike	Price				Other Features
									Each	3's	6's	12's	
No. 14576	Alarm	2-3/16" x 2-3/16" x 11/16"	Asia	5/16"	1/4"	"AA"	—	—	\$10.50	\$10.25	\$10.00	\$9.75	With hour, minute, second & alarm push-on hands for 2" dial.
No. 19516	Non-Alarm	2-1/16" round x 5/8"	USA	3/16"	1/8"	"N"	—	—	\$5.75	\$5.50	\$5.25	\$5.00	With hour, minute second & alarm push-on hands for 2" dial.
No. 14530	Backwards	2-1/8" x 2-1/8" x 5/8"	USA	9/16"	3/16"	"AA"	—	—	\$6.00	\$5.75	\$5.50	\$5.25	Can be combined for price breaks. Stepping sweep. Rear set.
No. 19862	Backwards	2-1/8" x 2-1/8" x 5/8"	USA	1-1/8"	13/16"	"AA"	—	—	\$6.00	\$5.75	\$5.50	\$5.25	
No. 23337	Bim-Bam #577-010	4-3/8" x 3-1/4" x 1-5/8" <b>NEW</b>	Hermle	11/16"	1/2"	"C"	—	Hour	\$64.50				Uses Hermle "I" shaft hands See page 69. Hands and chime rods not included.
No. 19374	6 Melody	3" x 3-7/8" x 1-3/16"	Asia	5/8"	5/16"	"C"	Hour	—	\$21.00	\$20.75	\$20.50	\$20.25	Ava Maria, Over The Rainbow, Try To Remember, Happy Birthday, Rudolph, Westminster
No. 19268	Westminster	3" x 3-7/8" x 1-1/8"	Asia	1-1/4"	7/8"	"C"	1/4's	Hour	\$21.00	\$20.75	\$20.50	\$20.25	Combine for price break. Rear set. Built in speaker.
No. 19269	Westminster	3" x 3-7/8" x 1-1/8"	Asia			"C"	1/4's	Hour					
No. 20689	Westminster	2-1/4" x 3-1/4" x 1-1/8"	Hermle	7/16"	3/16"	"C"	1/4's	Hour	\$17.00	\$16.75	\$16.50	\$16.25	Rear set with 6" long speaker wires. Use only Hermle battery movement hands. See page 69 for Hermle "I" shaft hands.
No. 20690	Westminster	2-1/4" x 3-1/4" x 1-1/8"	Hermle	5/8"	3/8"	"C"	1/4's	Hour	\$17.00	\$16.75	\$16.50	\$16.25	
No. 20691	Westminster #2112	2-1/4" x 3-1/4" x 1-1/8"	Hermle	13/16"	1/2"	"C"	1/4's	Hour	\$17.00	\$16.75	\$16.50	\$16.25	
No. 19426	Westminster #2100 W/Speaker	2-1/4" x 2-1/4" x 5/8"	Hermle	5/8"	1/4"	"AA"	Hour	—	\$21.50	\$21.25	\$21.00	\$20.75	With 1-1/4" x 2-1/4" x 5/8" detachable speaker with 1-1/8" long wires. See page 69 for Hermle "I" shaft hands.
No. 23152	Westminster & Bim Bam	3-3/4" x 2-9/16" x 1-11/16"	German	13/16"	5/16"	"D"	1/4's	Hour	\$33.50	\$33.25	\$33.00	\$32.75	Volume control and silence feature.

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Non Pendulum Quartz Movements



**Note: All quartz movements use "T" shaft hands listed on pages 68-70 except where otherwise indicated. Mounting hardware is furnished with each movement.**

Part #	Movement Type (Non-Pendulum)	Movement Size	Mfr.	Handshaft Length	Max. Dial Thickness	Battery Type (not included)	Chime	Strike	Price				Other Features
									Each	3's	6's	12's	
No. 19987	Westminster & Bim-Bam	4-3/8" x 2-3/8" x 1-1/8"	Hermle	7/16"	1/4"	2-"C"	1/4's	Hour	\$26.50	\$26.25	\$26.00	\$25.75	With hands for a 7" dial & no second hand, 6" long speaker wires. Combine for price breaks. Night shut-off & volume control.
No. 18933	#2114	4-3/8" x 2-3/8" x 1-1/8"	Hermle	3/4"	7/16"	2-"C"	1/4's	Hour	\$26.50	\$26.25	\$26.00	\$25.75	
No. 23561	Westminster & Ave Maria #2115	4-3/8" x 2-3/8" x 1-1/8" <b>NEW</b>	Hermle	3/4"	7/16"	2-"C"	1/4's	Hour	\$26.50	\$26.25	\$26.00	\$25.75	6" long speaker wires. Combine for price breaks. Night shut-off & volume control. See page 69 for Hermle "T" shaft hands.
No. 14582	Westminster & Whittington	2-3/8" x 3-3/16" x 1-5/16"	Asia	11/16"	5/16"	"AA"	—	—	\$26.00	\$25.75	\$25.50	\$25.25	With 2-3/16" dia., detachable speaker, 10-1/2" wires. Night shut-off & volume control.
No. 14563	Dual Movement	2-1/8" x 2-1/8" x 1/2"	Asia	—	—	"AA"	—	—	\$9.00	\$8.75	\$8.50	\$8.25	Separate second hand movement. 1-3/4" x 1-11/16" x 5/16". 6" long wires.
No. 14528	400-Day	2-1/4" x 2-1/8" x 5/8"	Asia	—	—	"AA"	—	—	\$9.00	\$8.75	\$8.50	\$8.25	Oscillating movement rotates 2-3/4" tall gold plastic balls (included), Not a timekeeping device.
No. 20320	400-Day	2-1/4" x 2-1/4" x 7/8"	Asia	—	—	"C"	—	—	\$9.00	\$8.75	\$8.50	\$8.25	2-3/4" diameter rotary pendulum, a press-in pendulum support, and a set of hands for a 3" diameter dial. Must be mounted so the handshaft of the movement is 4-1/2" from bottom of pendulum.
No. 23338	400-Day #2300	1-1/2" x 1-7/16" x 7/16" <b>NEW</b>	Hermle	7/8"	3/4"	"AA"	—	—	\$4.50	—	—	—	Rear set. Uses suspension on page 21.
No. 22883	24-Hour Game Feeder	2-5/8" x 2-1/4" x 1-1/8"	USA	—	—	"C"	—	—	\$22.50	\$22.25	\$22.00	\$21.75	Deer feeder with 2-1/2" diameter 24 hour disk includes 3 adjustable trippers. Continuous sweep. Rear set.
No. 15736	Hi-Torque (Mini)	2-3/16" x 2-3/16" x 1/2"	Asia	11/16"	5/16"	"AA"	—	—	\$10.50	\$10.25	\$10.00	\$9.75	Continuous sweep with rear set.
No. 20681	Hi-Torque	2-1/8" x 2-1/8" x 9/16"	Asia	7/8"	7/16"	"AA"	—	—	\$6.50	\$6.25	\$6.00	\$5.75	Stepping sweep. Rear set. Combine for price breaks.
No. 23362	Hi-Torque	2-1/8" x 2-1/8" x 9/16" <b>NEW</b>	Asia	1-1/16"	3/4"	"AA"	—	—	\$6.50	\$6.25	\$6.00	\$5.75	
No. 19675	Hi-Torque	2-1/8" x 2-3/4" x 1"	Asia	5/8"	5/16"	"C"	—	—	\$6.50	\$6.25	\$6.00	\$5.75	Stepping sweep. Rear set. Can be combined for price break.
No. 19555	Hi-Torque	2-1/8" x 2-3/4" x 1"	Asia	3/4"	7/16"	"C"	—	—	\$6.50	\$6.25	\$6.00	\$5.75	
No. 20682	Hi-Torque	2-1/8" x 2-3/4" x 1"	Asia	7/8"	7/16"	"C"	—	—	\$6.50	\$6.25	\$6.00	\$5.75	

Non Pendulum Quartz Movements



No. 19806

Note: All quartz movements use "I" shaft hands listed on pages 68-70 except where otherwise indicated. Mounting hardware is furnished with each movement.



No. 23546



No. 20880  
No. 20881  
No. 20882



No. 19298  
No. 19297  
No. 19296  
No. 19295  
No. 19294  
No. 19293



No. 17681  
No. 14400  
No. 14402  
No. 14401



No. 20686  
No. 20687  
No. 20688



No. 23321

Part #	Movement Type (Non-Pendulum)	Movement Size	Mfr.	Handshaft Length	Max. Dial Thickness	Battery Type (not included)	Chime	Strike	Price					Other Features
									Each	3's	12's	50's	100's	
No. 19806	Micro-Mini	2-3/4" x 2-1/8" x 1"	Asia	1/4"	1/16"	"N"	—	—	\$7.25	\$7.00	\$6.75	\$6.50	\$6.25	Comes with push-on hour and minute hands for a 3-1/2" dial, The smallest movement available
No. 23546	Mini	2-1/8" x 2-1/8" x 5/8" <b>NEW</b>	Asian	—	1/4"	"AA"	—	—	\$10.00	\$9.75	\$9.50	\$9.25	\$9.00	Continuous Sweep. Rear set.
<b>GOOD</b>														
No. 20880	Mini	2-3/16" x 2-3/16" x 5/8"	China	5/8"	5/16"	"AA"	—	—	\$2.00	\$1.85	\$1.65	\$1.50	\$1.40	Stepping sweep. Rear set.
No. 20881	Mini	2-3/16" x 2-3/16" x 5/8"	China	13/16"	1/2"	"AA"	—	—	\$2.00	\$1.85	\$1.65	\$1.50	\$1.40	Combine for price breaks.
No. 20882	Mini	2-3/16" x 2-3/16" x 5/8"	China	1-1/16"	11/16"	"AA"	—	—	\$2.00	\$1.85	\$1.65	\$1.50	\$1.40	
<b>GOOD</b>														
No. 19298	Mini	2-1/8" x 2-1/8" x 5/8"	China	7/16"	1/8"	"AA"	—	—	\$3.50	\$3.00	\$2.65	\$2.40	\$2.25	With built in hanger. Combine for price breaks. Rear set with stepping sweep.
No. 19297	Mini	2-1/8" x 2-1/8" x 5/8"	China	5/8"	1/4"	"AA"	—	—	\$3.50	\$3.00	\$2.65	\$2.40	\$2.25	
No. 19296	Mini	2-1/8" x 2-1/8" x 5/8"	China	11/16"	5/16"	"AA"	—	—	\$3.50	\$3.00	\$2.65	\$2.40	\$2.25	
No. 19295	Mini	2-1/8" x 2-1/8" x 5/8"	China	7/8"	7/16"	"AA"	—	—	\$3.50	\$3.00	\$2.65	\$2.40	\$2.25	
No. 19294	Mini	2-1/8" x 2-1/8" x 5/8"	China	15/16"	9/16"	"AA"	—	—	\$3.50	\$3.00	\$2.65	\$2.40	\$2.25	
No. 19293	Mini	2-1/8" x 2-1/8" x 5/8"	China	1-1/8"	3/4"	"AA"	—	—	\$3.50	\$3.00	\$2.65	\$2.40	\$2.25	
<b>BETTER</b>														
No. 17681	Mini	2-3/8" x 2-3/8" x 9/16"	Japan	9/16"	1/8"	"AA"	—	—	\$3.75	\$3.25	\$2.85	\$2.50	\$2.35	Combine for price breaks. Rear set with stepping sweep.
No. 14400	Mini	2-3/8" x 2-3/8" x 9/16"	Japan	5/8"	5/16"	"AA"	—	—	\$3.75	\$3.25	\$2.85	\$2.50	\$2.35	
No. 14402	Mini	2-3/8" x 2-3/8" x 9/16"	Japan	13/16"	9/16"	"AA"	—	—	\$3.75	\$3.25	\$2.85	\$2.50	\$2.35	
No. 14401	Mini	2-3/8" x 2-3/8" x 9/16"	Japan	1-1/16"	11/16"	"AA"	—	—	\$3.75	\$3.25	\$2.85	\$2.50	\$2.35	
<b>BEST</b>														
No. 20686	Mini	2-1/4" x 2-1/4" x 5/8"	Hermle	7/16"	3/16"	"AA"	—	—	\$3.50	\$3.25	\$3.00	\$2.75	\$2.50	Stepping sweep. Rear set. See page 69 for Hermle "I" shaft hands. Does not accommodate a second hand. Combine for price breaks
No. 20687	Mini	2-1/4" x 2-1/4" x 5/8"	Hermle	5/8"	3/8"	"AA"	—	—	\$3.50	\$3.25	\$3.00	\$2.75	\$2.50	
No. 20688	Mini #2100	2-1/4" x 2-1/4" x 5/8"	Hermle	13/16"	1/2"	"AA"	—	—	\$3.50	\$3.25	\$3.00	\$2.75	\$2.50	
No. 23321	Mini Push-On	2-1/4" x 2-3/16" x 5/8" <b>NEW</b>	Asian	1/2"	1/8"	"AA"	—	—	\$8.25	\$8.00	\$7.75	\$7.50	\$7.25	Continuous sweep. Use push-on hands from page 69. Part #23324 through #23329.

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Non Pendulum Quartz Movements



No. 22887  
No. 22888



No. 18747



No. 19499



No. 22884  
No. 22885  
No. 22886



No. 20534  
No. 20535



No. 22895  
No. 22896  
No. 22897



No. 20043



No. 23563



No. 14418  
No. 23551  
No. 14419

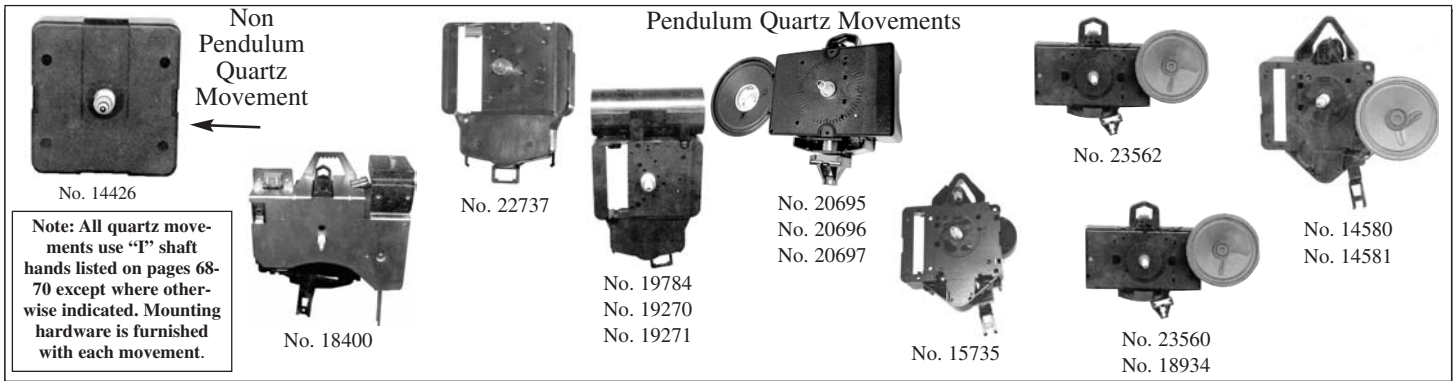
**Note:** All quartz movements use "I" shaft hands listed on pages 68-70 except where otherwise indicated. Mounting hardware is furnished with each movement.

Part #	Movement Type (Non-Pendulum)	Movement Size	Mfr.	Handshaft Length	Max. Dial Thickness	Battery Type (not included)	Chime	Strike	Price					Other Features
									Each	3's	12's	50's	100's	
No. 22887	Mini With Small Handshaft	2-7/32" x 2-7/32" x 5/8"	Asia	1/16"	1/16"	"AA"	—	—	\$3.75	\$3.50	\$3.25	\$3.00	\$2.75	3/16" diameter shaft. Choose from push-on hands on page 69. Combine for price breaks.
No. 22888		2-7/32" x 2-7/32" x 5/8"	Asia	3/16"	3/16"	"AA"	—	—	\$3.75	\$3.50	\$3.25	\$3.00	\$2.75	
No. 18747	Moon Phase	3-1/4" x 2-1/4" x 1-1/8"	Asia	5/16"	1/8"	"AA"	—	—	\$10.50	\$10.25	\$10.00	\$9.75	Blue moon dial with 3-1/4" x 4-1/2" front plate.	
No. 19499	Passing Bell	2-1/8" x 3-3/16" x 1-1/4"	Germany	13/16"	5/16"	"C"	—	Hour	\$17.00	\$16.75	\$16.50	\$16.25	Rear set.	
No. 22884	Snap-In With Push-On Hands	2-7/32" x 2-7/32" x 5/8"	USA	3/8"	1/4"	"AA"	—	—	\$3.25	\$3.00	\$2.75	\$2.50	Snap-in movement uses push on hands available on page 69. Combine for price breaks.	
No. 22885		2-7/32" x 2-7/32" x 5/8"	USA	1/2"	3/8"	"AA"	—	—	\$3.25	\$3.00	\$2.75	\$2.50		
No. 22886		2-7/32" x 2-7/32" x 5/8"	USA	5/8"	1/2"	"AA"	—	—	\$3.25	\$3.00	\$2.75	\$2.50		
No. 20534	Mini For Push On Hands	2-7/32" x 2-7/32" x 5/8"	Asia	15/32"	1/8"	"AA"	—	—	\$3.25	\$3.00	\$2.75	\$2.50	Stepping sweep. Rear set. Use push-on hands on page 69. "I" shaft hands do not fit. Combine for price breaks.	
No. 20535		2-7/32" x 2-7/32" x 5/8"	Asia	11/16"	1/4"	"AA"	—	—	\$3.25	\$3.00	\$2.75	\$2.50		
No. 22895	Radio	3-5/8" x 2-3/16" x 5/8"	USA	1/4"	11/16"	"AA"	—	—	\$15.00	\$14.75	\$14.50	\$14.25	Has mini radio receiver that monitors a perpetual time signal broadcast from Ft. Collins, CO. Self correcting. Combine for price breaks.	
No. 22896	Controlled	3-5/8" x 2-3/16" x 5/8"	USA	3/8"	27/32"	"AA"	—	—	\$15.00	\$14.75	\$14.50	\$14.25		
No. 22897	Atomic	3-5/8" x 2-3/16" x 5/8"	USA	3/4"	1-3/16"	"AA"	—	—	\$15.00	\$14.75	\$14.50	\$14.25		
No. 20043	Ships Bell	4-1/4" x 2-5/8" x 2-7/8"	Germany	3/8"	3/16"	"D"	—	Hour	\$83.50	\$83.25	\$83.00	\$82.75	Strikes ships time on a single bell on the hour and half hour. Stepping sweep. Rear set.	
No. 23563	Ships Bell #2117	2-3/16" x 2-1/4" x 1-1/8" <b>NEW</b>	Hermle	5/8"	3/8"	2-"AA"	—	Hour	\$32.00	\$31.75	\$31.50	\$31.25	Uses Hermle "I" shaft hands on page 69. Built-in speaker with 16" long wires. 4-1/2" long battery box wires.	
No. 14418	Standard	2-9/16" x 2-1/8" x 1-3/16"	USA	3/8"	1/4"	"C"	—	—	\$6.00	\$5.75	\$5.50	\$5.25	Stepping sweep. Rear set. Combine for price breaks.	
No. 23551	Standard	2-9/16" x 2-1/8" x 1-3/16"	USA	1/2"	3/8"	"C"	—	—	\$6.00	\$5.75	\$5.50	\$5.25		
No. 14419	Standard	2-9/16" x 2-1/8" x 1-3/16" <b>NEW</b>	USA	1-3/16"	3/4"	"C"	—	—	\$6.00	\$5.75	\$5.50	\$5.25		

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Part #	Movement Type (Non-Pendulum)	Movement Size	Mfr.	Handshaft Length	Max. Dial Thickness	Battery Type (not included)	Chime	Strike	Price				Other Features
									Each	3's	6's	12's	
No. 14426	24-Hour	2-1/8" x 2-1/8" x 5/8"	USA	11/16"	1/4"	"AA"	—	—	\$7.50	\$7.25	\$7.00	\$6.75	Used in computer, radio room and military installations. Stepping sweep. Rear set. Non pendulum
<b>Pendulum Quartz Movements</b>													
No. 18400	Bim-Bam Chime Rods	6-1/4" x 5-7/8" x 2"	Asia	13/16"	15/16"	"D"	1/2's	Hour	\$44.00	\$43.75	\$43.50	\$43.25	Does not accommodate a second hand. With 16" rod and bob.
No. 22737	High Torque Westminster	3-1/4" x 3" x 1-3/16"	Asia	7/8"	7/16"	"C"	—	—	\$12.50	\$12.25	\$12.00	\$11.75	Includes a 16" rod and bob. Rear set.
No. 19784	Westminster	2-1/4" x 4-3/8" x 1"	Asia	5/8"	5/16"	"C"	1/4's	Hour	\$22.00	\$21.75	\$21.50	\$21.25	Stepping sweep. Rear set. Built-in speaker. Combine for discounts. With 16" rod and bob.
No. 19270	Westminster	2-1/4" x 4-3/8" x 1"	Asia	3/4"	3/8"	"C"	1/4's	Hour	\$22.00	\$21.75	\$21.50	\$21.25	
No. 19271	Westminster	2-1/4" x 4-3/8" x 1"	Asia	1"	5/8"	"C"	1/4's	Hour	\$22.00	\$21.75	\$21.50	\$21.25	
No. 20695	Westminster	2-1/4" x 4-3/8" x 1"	Hermle	7/16"	3/16"	"C"	1/4's	Hour	\$19.50	\$19.25	\$19.00	\$18.75	For hands see page 69 Stepping sweep. Rear set. Detachable speaker 12" wires. Combine for discounts. With 16" rod and bob.
No. 20696	Westminster	2-1/4" x 4-3/8" x 1"	Hermle	5/8"	3/8"	"C"	1/4's	Hour	\$19.50	\$19.25	\$19.00	\$18.75	
No. 20697	Westminster #2212	2-1/4" x 4-3/8" x 1"	Hermle	13/16"	1/2"	"C"	1/4's	Hour	\$19.50	\$19.25	\$19.00	\$18.75	
No. 15735	Westminster	3-3/4" x 4-3/8" x 1"	Asia	5/8"	1/4"	"C"	Hour	—	\$20.00	\$19.75	\$19.50	\$19.25	With 16" rod and bob. Rear set.
No. 23562	Westminster/Ave Maria #2215	4-3/8" x 4-1/4" x 1-1/8" <b>NEW</b>	Hermle	3/4"	3/8"	2-"C"	1/4's	Hour	\$29.00	\$28.75	\$28.50	\$28.25	With 16" rod and bob. Detachable speaker with 10" wires. Rear set & volume control. Combine for price breaks.
No. 23560	Westminster	4-3/8" x 4-1/4" x 1-1/8"	Hermle	5/8"	3/8"	2-"C"	1/4's	1/4's	\$29.00	\$28.75	\$28.50	\$28.25	With 16" rod and bob. Detachable speaker with 10" wires. Rear set & volume control. With hands for 7" dial. No 2nd hand. Combine for price breaks.
No. 18934	& Bim-Bam #2214	4-3/8" x 4-1/4" x 1-1/8" <b>NEW</b>	Hermle	3/4"	7/16"	2-"C"	1/4's	1/4's	\$29.00	\$28.75	\$28.50	\$28.25	
No. 14580	Westminster &	3-1/4" x 4-1/2" x 1-5/16"	Asia	5/8"	1/4"	"C"	1/4's	Hour	\$29.00	\$28.75	\$28.50	\$28.25	With 16" rod and bob. Combine for discounts.
No. 14581	Whittington	3-1/4" x 4-1/2" x 1-5/16"	Asia	1-1/8"	11/16"	"C"	1/4's	Hour	\$29.00	\$28.75	\$28.50	\$28.25	

Pendulum Quartz Movements



No. 19498



No. 23529  
No. 23530  
No. 23531



No. 14555  
No. 14556



No. 20167



No. 20692  
No. 20693  
No. 20694



No. 23553

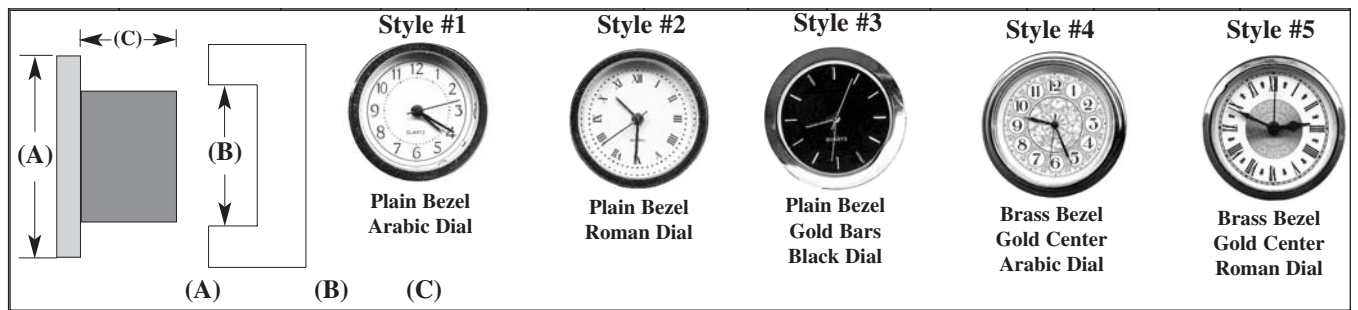


No. 19431  
No. 19432

Note: All quartz movements use "I" shaft hands listed on pages 68-70 except where otherwise indicated. Mounting hardware is furnished with each movement.

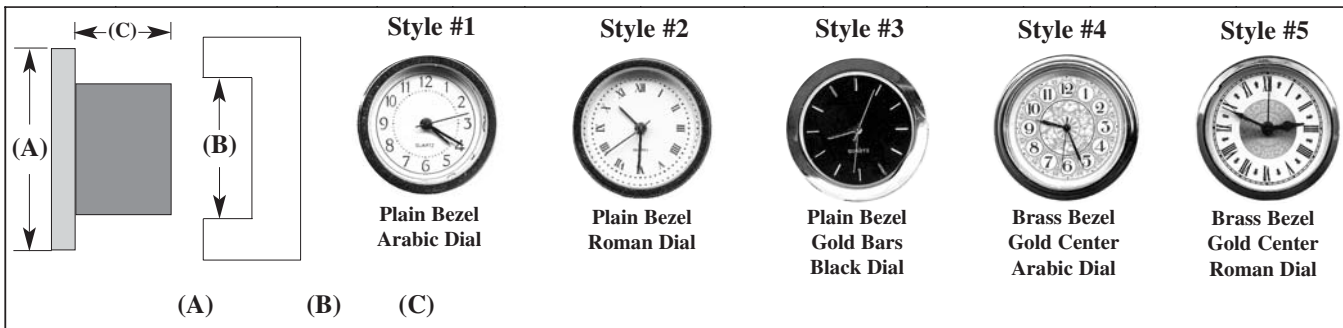
Part #	Movement Type Pendulum	Movement Size	Mfr.	Handshaft Length	Max. Dial Thickness	Battery Type (not included)	Chime	Strike	Price				Other Features
									Each	3's	6's	12's	
No. 19498	Dual Action	2-1/8" x 3-1/4" x 13/16"	Asia	1-1/16"	3/4"	"AA"	—	—	\$16.50	\$16.25	\$16.00	\$15.75	With 16" rod and bob. Top swings as pendulum swings. Stepping sweep.
No. 23529	Mini	2-3/16" x 2-3/16" x 5/8"	China	5/8"	5/16"	"AA"	—	—	\$6.25	\$6.00	\$5.75	\$5.50	With 16" rod and bob. Stepping sweep. Combine for discounts
No. 23530	Mini	2-3/16" x 2-3/16" x 5/8"	China	13/16"	1/2"	"AA"	—	—	\$6.25	\$6.00	\$5.75	\$5.50	
No. 23531	Mini	2-3/16" x 2-3/16" x 5/8" <b>NEW</b>	China	1-1/16"	11/16"	"AA"	—	—	\$6.25	\$6.00	\$5.75	\$5.50	
No. 14555	Mini	2-3/16" x 3-3/16" x 15/16"	Asia	5/8"	1/4"	"AA"	—	—	\$9.25	\$9.00	\$8.75	\$8.50	With 16" rod and bob. Stepping sweep. Combine for discounts.
No. 14556	Mini	2-3/16" x 3-3/16" x 15/16"	Asia	1"	11/16"	"AA"	—	—	\$9.25	\$9.00	\$8.75	\$8.50	
No. 20167	Mini	2-1/4" x 4-3/4" x 7/8"	Asia	7/16"	3/8"	"AA"	—	—	\$8.00	\$7.75	\$7.50	\$7.25	With 16" rod and bob. Stepping sweep
No. 20692	Mini	3-1/8" X 2-1/4" X 1-1/4"	Hermle	7/16"	3/16"	"AA"	—	—	\$8.75	\$8.50	\$8.25	\$8.00	With 16" rod and bob. Stepping sweep For Hermle rods & bobs see page 10. For hands see page 70. Stepping sweep. Rear set. Combine for discounts.
No. 20693	Mini	3-1/8" X 2-1/4" X 1-1/4"	Hermle	5/8"	3/8"	"AA"	—	—	\$8.75	\$8.50	\$8.25	\$8.00	
No. 20694	Mini #2200	3-1/8" X 2-1/4" X 1-1/4"	Hermle	13/16"	1/2"	"AA"	—	—	\$8.75	\$8.50	\$8.25	\$8.00	
No. 23553	Passing Bell	2-1/8" x 3-3/16" x 1-1/4" <b>NEW</b>	German	13/16"	5/16"	"C"	—	Hour	\$17.50	\$17.25	\$17.00	\$16.75	With 16" rod and bob. Stepping sweep
No. 19431	Standard High Torque	3" x 3-7/16" x 1-1/8"	Asia	5/8"	5/16"	"C"	—	—	\$11.00	10.75	\$10.50	\$10.25	With 16" rod and bob. Can be combined for price breaks. Stepping sweep. Combine for price breaks.
No. 19432	Standard High Torque	3" x 3-7/16" x 1-1/8"	Asia	7/8"	1/2"	"C"	—	—	\$11.00	10.75	\$10.50	\$10.25	

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Part #	Bezel Diameter	Min. Hole Diameter	Depth Below Bezel	Bezel Color	Dial Color	Numerals	Style #	Type Of Battery Required	Battery Included	Price Each	Price 3's	Price 12's	Special Features
No. 18462	1-7/16" (36mm)	1-3/8"	3/16"	Brass	White	Arabic	1	Watch	Yes	\$6.50	\$6.25	\$6.00	Combine for price breaks.
No. 18463	1-7/16" (36mm)	1-3/8"	3/16"	Brass	White	Roman	2	Watch	Yes	\$6.50	\$6.25	\$6.00	
No. 20442	1-7/16" (36mm)	1-3/8"	5/16"	Brass	Ivory	Arabic	1	Watch	Yes	\$6.50	\$6.25	\$6.00	
No. 20443	1-7/16" (36mm)	1-3/8"	5/16"	Brass	Ivory	Roman	2	Watch	Yes	\$6.50	\$6.25	\$6.00	
No. 20447	1-7/16" (36mm)	1-3/8"	5/16"	Brass	White/Gold	Arabic	4	Watch	Yes	\$6.50	\$6.25	\$6.00	
No. 20448	1-7/16" (36mm)	1-3/8"	5/16"	Brass	Ivory/Gold	Roman	5	Watch	Yes	\$6.50	\$6.25	\$6.00	
No. 20445	1-7/16" (36mm)	1-3/8"	5/16"	Brass	Gold	Arabic	1	Watch	Yes	\$6.50	\$6.25	\$6.00	
No. 20446	1-7/16" (36mm)	1-3/8"	5/16"	Brass	Gold	Roman	2	Watch	Yes	\$6.50	\$6.25	\$6.00	
No. 20449	1-7/16" (36mm)	1-3/8"	5/16"	Pewter	White	Arabic	1	Watch	Yes	\$6.50	\$6.25	\$6.00	
No. 20450	1-7/16" (36mm)	1-3/8"	5/16"	Pewter	White	Roman	2	Watch	Yes	\$6.50	\$6.25	\$6.00	
No. 23532	1-3/4" (45mm) <b>NEW</b>	1-1/2"	5/16"	Brass	White	Arabic	1	Watch	Yes	\$7.00	\$6.75	\$6.50	Combine for price breaks.
No. 23533	1-3/4" (45mm) <b>NEW</b>	1-1/2"	5/16"	Brass	White	Roman	2	Watch	Yes	\$7.00	\$6.75	\$6.50	
No. 19859	2" (50mm)	1-13/16"	9/32"	Brass	White	Arabic	1	Watch	Yes	\$8.25	\$8.00	\$7.75	Combine for price breaks.
No. 19858	2" (50mm)	1-13/16"	9/32"	Brass	White	Roman	2	Watch	Yes	\$8.25	\$8.00	\$7.75	
No. 20451	2" (50mm)	1-13/16"	9/32"	Brass	Ivory	Arabic	1	Watch	Yes	\$8.25	\$8.00	\$7.75	
No. 20452	2" (50mm)	1-13/16"	9/32"	Brass	Ivory	Roman	2	Watch	Yes	\$8.25	\$8.00	\$7.75	
No. 20454	2" (50mm)	1-13/16"	9/32"	Brass	Gold	Roman	2	Watch	Yes	\$8.25	8.00	\$7.75	
No. 20455	2" (50mm)	1-13/16"	9/32"	Brass	Gold	Arabic	1	Watch	Yes	\$8.25	\$8.00	\$7.75	
No. 19861	2" (50mm)	1-13/16"	9/32"	Brass	White/Gold	Arabic	4	Watch	Yes	\$8.25	\$8.00	\$7.75	
No. 20453	2" (50mm)	1-13/16"	9/32"	Brass	Black	Gold Bars	3	Watch	Yes	\$8.75	\$8.50	\$8.25	
No. 20204	2-3/8" (60mm)	1-1/2"	5/16"	Brass	White	Arabic	1	"N"	Yes	\$5.50	\$5.25	\$5.00	Combine for price breaks.
No. 20203	2-3/8" (60mm)	2"	21/32"	Brass	White	Roman	2	"N"	Yes	\$5.50	\$5.25	\$5.00	
No. 20201	2-3/8" (60mm)	2"	21/32"	Brass	White/Gold	Arabic	4	"N"	Yes	\$5.50	\$5.25	\$5.00	
No. 20456	2-3/8" (60mm)	2"	21/32"	Brass	Gold	Arabic	1	"N"	Yes	\$5.50	\$5.25	\$5.00	
No. 20457	2-3/8" (60mm)	2"	21/32"	Brass	Gold	Roman	2	"N"	Yes	\$5.50	\$5.25	\$5.00	
No. 20458	2-3/8" (60mm)	2"	3/4"	Brass	White/Gold	Arabic	4	"AAA"	Yes	\$5.50	\$5.25	\$5.00	
No. 20459	2-3/8" (60mm)	2"	3/4"	Brass	White/Gold	Roman	5	"AAA"	Yes	\$5.50	\$5.25	\$5.00	
No. 16572	2-3/4" (70mm)	2-5/16"	1/2"	Brass	Ivory	Arabic	1	"N"	No	\$9.50	\$9.25	\$9.00	Combine for price breaks.
No. 16577	2-3/4" (70mm)	2-5/16"	1/2"	Brass	Ivory	Roman	2	"N"	No	\$9.50	\$9.25	\$9.00	

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Part #	Bezel Diameter	Din. Hole Diameter	Depth Below Bezel	Color	Dial Color	Numerals	Style #	Type Of Battery Required	Battery Included	Price Each	Price 3's	Price 12's	Special Features
No. 20524	2-13/16" (72mm)	2-3/8"	7/8"	Brass	White	Arabic	1	"N"	No	\$7.50	\$7.25	\$7.00	
No. 20525	2-13/16" (72mm)	2-3/8"	7/8"	Brass	White	Roman	2	"N"	No	\$7.50	\$7.25	\$7.00	
No. 16564	2-13/16" (72mm)	2-3/8"	7/8"	Brass	Gold	Arabic	1	"N"	No	\$7.50	\$7.25	\$7.00	Combine for price breaks.
No. 16570	2-13/16" (72mm)	2-3/8"	7/8"	Brass	Gold	Roman	2	"N"	No	\$7.50	\$7.25	\$7.00	
No. 20460	2-13/16" (72mm)	2-3/8"	7/8"	Brass	White/Gold	Arabic	4	"AAA"	No	\$7.50	\$7.25	\$7.00	
No. 20461	2-13/16" (72mm)	2-3/8"	7/8"	Brass	Ivory/Gold	Roman	5	"AAA"	No	\$7.50	\$7.25	\$7.00	
No. 20205	2-13/16" (72mm)	2"	21/32"	Brass	White	Arabic	1	"N"	No	\$6.00	\$5.75	\$5.50	
No. 20206	2-13/16" (72mm)	2"	21/32"	Brass	White	Roman	2	"N"	No	\$6.00	\$5.75	\$5.50	
Bo. 16596	2-7/8" (73mm)	2-5/16"	5/8"	Brass	White	Arabic	1	"N"	No	\$11.50	\$11.25	\$11.00	
No. 23534	3-1/8" (80mm) <b>NEW</b>	3"	1/2"	Brass	White	Arabic	1	"AA"	No	\$6.50	\$6.25	\$6.00	Combine for price breaks.
No. 23535	3-1/8" (80mm) <b>NEW</b>	3"	1/2"	Brass	White	Roman	2	"AA"	No	\$6.50	\$6.25	\$6.00	
No. 20464	3-5/16" (84mm)	2-3/8"	7/8"	Brass	White/Gold	Arabic	4	"N"	No	\$8.50	\$8.25	\$8.00	
No. 20466	3-1/2" (90mm)	3"	9/16"	Brass	Gold	Arabic	1	"AA"	No	\$6.50	\$6.00	\$5.75	Combine for price breaks.
No. 20467	3-1/2" (90mm)	3"	9/16"	Brass	Gold	Roman	2	"AA"	No	\$6.50	\$6.00	\$5.75	
No. 20468	3-1/2" (90mm)	3"	11/16"	Brass	White/Gold	Arabic	4	"AA"	No	\$6.50	\$6.00	\$5.75	
No. 20469	3-1/2" (90mm)	3"	11/16"	Brass	Ivory/Gold	Roman	5	"AA"	No	\$6.50	\$6.00	\$5.75	
No. 16574	3-7/8" (98mm)	2-5/16"	1/2"	Brass	Ivory	Arabic	1	"N"	No	\$13.25	\$13.00	\$12.75	Combine for price breaks.
No. 16579	3-7/8" (98mm)	2-5/16"	1/2"	Brass	Ivory	Roman	2	"N"	No	\$13.25	\$13.00	\$12.75	
No. 16595	4" (102mm)	2-5/16"	5/8"	Brass	White	Arabic	1	"AA"	No	\$12.50	\$12.25	\$12.00	Combine for price breaks.
No. 16591	4" (102mm)	2-5/16"	5/8"	Brass	White	Roman	2	"AA"	No	\$12.50	\$12.25	\$12.00	
No. 20470	4-3/8" (112mm)	2-3/16"	7/16"	Brass	White/Gold	Arabic	4	"AA"	No	\$16.50	\$16.25	\$16.00	Combine for price breaks.
No. 16575	4-3/8" (110mm)	2-5/16"	9/16"	Brass	Ivory	Arabic	1	"AA"	No	\$16.50	\$16.25	\$16.00	
No. 16580	4-3/8" (110mm)	2-5/16"	9/16"	Brass	Ivory	Roman	2	"AA"	No	\$16.50	\$16.25	\$16.00	
No. 16594	5-7/8" (150mm)	3-1/8"	13/16"	Brass	White	Arabic	1	"N"	No	\$17.00	\$16.75	\$16.50	Combine for price breaks.
No. 16590	5-7/8" (150mm) <b>NEW</b>	3-1/8"	13/16"	Brass	White	Roman	2	"N"	No	\$17.00	\$16.75	\$16.50	
No. 20472	6-1/4" (170mm)	3-1/8"	9/16"	Brass	White	Arabic	1	"AA"	No	\$17.50	\$17.25	\$17.00	Combine for price breaks.
No. 20474	6-1/4" (170mm)	3-1/8"	9/16"	Brass	White/Gold	Arabic	4	"AA"	No	\$17.50	\$17.75	\$17.50	
No. 20475	7-7/8" (201mm)	3-1/8"	7/8"	Brass	White	Arabic	1	"AA"	No	\$18.00	\$17.75	\$17.50	Combine for price breaks.
No. 20476	7-7/8" (201mm)	3-1/8"	7/8"	Brass	White	Roman	2	"AA"	No	\$18.00	\$17.75	\$17.50	
No. 20477	7-7/8" (201mm)	3-1/8"	7/8"	Brass	White/Gold	Arabic	4	"AA"	No	\$18.00	\$17.75	\$17.50	
No. 20478	8-1/2" (217mm)	7-15/16"	1-1/8"	Brass	White	Arabic	1	"AA"	No	\$11.00	\$10.75	\$10.50	
No. 20479	8-1/2" (217mm)	7-15/16"	1-1/8"	Brass	White	Roman	2	"AA"	No	\$11.00	\$10.75	\$10.50	Combine for price breaks.

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**Quartz Ships Bell Movement-Hermle**

Hermle  
#577-071



Strikes ships bells on a brass bell. 4-1/4" tall x 2-5/8" wide by 2-7/8" deep. 3/8" handshaft length. "C" battery and hands are not included. Be sure to mount the movement with the battery at the top.

No. 20043 **\$83.50 each**

**Quartz Ships Bell Movement-Hermle** NEW

Hermle #2117



2-3/16" x 2-1/4" x 1-1/8" deep. Overall handshaft length is 5/8". Detached battery container. Uses 2 "AA" batteries (not included).

No. 23563 **\$32.00 each**

**Quartz Fit-Up Movements-German**



Rear set. Includes a brass bezel, clear crystal, hour, minute and second hands, and black numerals against a white background. "N" battery not included.

2-1/2" Bezel Diameter, 2-1/4" Minimum Hole Diameter, 2" Max. Case Thickness  
No. 14558 ..... Arabic **\$19.00 each**  
No. 14559 ..... Roman **\$19.00 each**

3-5/8" Bezel Diameter, 3-5/16" Minimum Hole Diameter, 2" Max. Case Thickness  
No. 14560 ..... Arabic **\$20.50 each**  
No. 14561 ..... Roman **\$20.50 each**

**Fancy Quartz Fit-Up-German**

Made  
In  
Germany

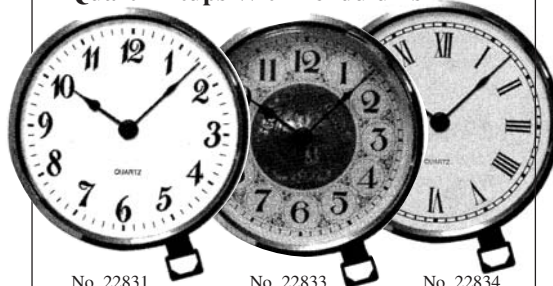


Black numerals on a white background. Brass embossed bezel and dial center with plastic convex cover.

3-3/8" diameter brass bezel. 2-1/16" movement diameter. Maximum case depth is 1-7/8". "N" battery not included.  
No. 20784 **\$21.50 each**

Bezel diameter is 3-5/8". Minimum hole diameter is 3-5/16". Maximum case thickness of 2". "N" battery not included.  
No. 20532 **\$21.50 each**

**Quartz Fitups With Pendulums**



No. 22831 ..... Arabic **\$11.75 each**  
No. 22833 .. Fancy Arabic **\$11.75 each**  
No. 22834 ..... Roman **\$11.75 each**

4" bezel diameter with pendulum. Complete with 16" brass rod and 2-3/4" bob, Mounts into a 3-3/4" hole. One "AA" battery is not included.

**Pendulum Attachment**

Battery movement attaches to the back of a dial. 1-3/8" diameter, 7/8" thick. 6" long brass pendulum can be trimmed to length. "N" battery not included.



No. 19430 **\$7.50 each**

**Pendulum Attachment**



Battery movement clamps to bottom of a movement. Pendulum and "AA" battery not included. 1-3/4" wide, 2-1/2" tall.

No. 19335 **\$13.00 each**

**Pendulum Attachment-Heavy Duty**

Drives pendulums as heavy as 300 grams and 33" long. Uses one "D" battery (not included). 7-9/16" x 3" x 2-1/16" deep.



No. 23223 **\$12.00 each**

**Pendulum Case**

Converts a mini quartz movement to pendulum drive. Measures 5-1/2 x 2-1/4" x 1-1/4" deep. Includes a 16" brass pendulum rod and 2-3/4" bob. Quartz insert mini movement not included.



No. 23552 **\$5.50 each**

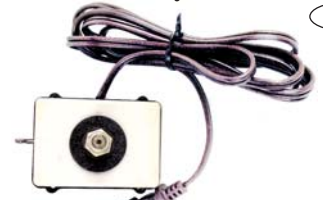
**Electric Movements-Lanshire**



1-3/16" x 2-1/2" x 1-3/8" deep complete with cord. Handshaft diameter 3/8". Rear set. 13/16" handshaft length with a 5-16" maximum dial thickness. Hands are available on page 65.

No. 14420 ..... **\$18.25 each**  
**\$54.00/ 3 (\$18.00) \$106.50/ 6 (\$17.75)**

**Lanshire Pam-Ad Style Movement**



2-1/2" x 2" x 1-3/8" deep. 7/8" overall handshaft length with a 1/4" maximum dial thickness. Bottom set. Stem not included, choose from one of the stems below.

No. 23522 **\$22.00 each**

**Lanshire Stems**



For the above movement.

No. 23523 4-3/8" **\$4.00 each**  
No. 23524 5-3/4" **\$4.00 each**  
No. 23525 6-1/16" **\$4.00 each**

**Lanshire In The Wall Movement** NEW



4" diameter plate for mounting in the wall. 13/16" movement depth. 3/8" maximum dial (wall) thickness

No. 23421 ..... **\$18.00 each**  
**\$53.25/ 3 \$17.75 each**

**Lanshire XL-7 Motor**



Can be used in Pam-Ad, Lanshire In-The-Wall and fitup clocks. Measures 1-3/4" wide x 2-1/2" tall x 5/8" deep. 102-125 volts, 60 HZ.

No. 23424 **\$10.25 each**

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