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# Howard miller grandfather clock service manual

floor clock tube clock closes position (#497065_r1) click to download (172K); One page in English. Automatic Daylight Saving Time Instruction Manual (495681_rA) Click to download; One page in English. Mechanical Movement Instruction Manual (#496978_r5) Click to Download; 5 pages in English. Harmonic Movement Instruction Guide (#495748_r2) click to download; One page in English. Quartz Movement Instruction Guide (#496990_r6) Click to download; One page in English. 612-712, 612-718, & 612-721 - Weather Device Instruction Manual (#496819_r2) Click to Download; One page in English. 625-236 Clock Controlled Radio Manual Instructions Click to download; (PD10727) one page in English. Here's the latest guide to Grandpa Howard Miller's watch instructions. It is also attached in PDF form so that you can download just as it appears on the Howard Miller watch website Manual Watch Howard Miller Watches November 29 2013FLOOR CLOCKINSTRUCTION MANUALHOWARD MILLER GRANDFATHER WATCHES Total Home™Angelish Espanyol Francais DeutschBASIC Action of floor clock at the heart of every floor clock is the movement. Traffic controls the hourly strike, keeping time and bells. Pendulum and weights are critical components for operating clock movement. The pendulum provides the ability to regulate and adjust the retention of time. As described in these instructions, pendulum adjustments to achieve accurate time keeping are easily achieved. The three weights provide strength for the one-hour strike (left weight), time (center weight) and bell melody (right weight). Without those weights, the clock wouldn't have worked. Each weight is different and must be properly hung from the movement (left, centre, right) to ensure proper action. Weights are suspended from movement by cable or chain. Weights must be raised at least every 7 days or the clock will stop. Raising cable-guided weights is achieved through crankshaft. Raising chain-driven weights is achieved by pulling the loose end of the chain. The strike and the sound of bells are made by a series of hammers hitting different longitudinal rods. Each rod makes a different sound when hit by a hammer. Specific bell melodies are achieved by controlling the sequence that each hammer hits the appropriate rod. Important information• Please enter a moment to record the clock model number and serial number in the space provided in the Service Details section of page 12.• The product information label lists the clock model number and serial number. The clock model number and serial number are essential for obtaining parts or service. The product details label may be located in several locations: outside the shipping carton, behind the door, at the back of the watch, at the top of the watch, in the upper rear corner of the watch, or inside the watch above the back of the dial. Browse this label when contacting us • Attach your sales confirmation to this guide for future reference, and record the information from the product information label, as specified on page 7.• Please save original packaging attached to the floor clock. Azure clock: Cable your watch ..... 3 Hanging the pendulum..... 3 weights hanging..... 4th moon dialing set..... 4 hesta time..... 4 starts clock..... Watch 4floOR: Chain your watch ..... 5 Hanging pendulum..... 5 weights hanging..... 6Dial moon thym..... 6 hesta time..... 6 starts clock..... 6Inclusive information Label product information..... 7 engine your watch..... 7 Recipes / Removing top panel on the side ..... 7 features glass..... 7 weights of the ascent..... 8 regulation on saving time..... 8 Automatic nightly mute option..... 8 day selection ..... 9 Treatment 9 hard trouble shots to rotate the moon dial..... 9Clock doesn't ring at the right time..... 10Clock didn't hit the right time..... 10Clock will not ring or strike..... 10chimes have the wrong tone..... 2Information service.....

WARNING: Make sure the clock is positioned square and solid on the floor so it doesn't fall off. Set up rectifies for maximum stability and correct alignment. Access to clock movement, bells and cables is possible in three possible ways; Through the front doors, through the upper side panels (or the side doors on certain clocks), or through the rear access panel. The upper side panels are held from the inside using duct tape or a plastic clip. You can flip the plastic clip or remove the tape permanently. See the General Information section on page 7 for appropriate instructions on removing and installing leaflet-side panels. Remove the cardboard sleeve, around bell bars and guide pendulum, by holding the cardboard sleeve at points 'A' and 'B' and pulling straight down. Pull straight down and out of the edges of the bell bars and guide the pendulum. (See Figure 1.) Remove the foam pads between the bell hammers and the bell rods. Treatment should be taken to avoid bending the bell hammers. The bell hammers will be free to move. The cardboard sleeve has been removed, allowing for easy removal of the foam pads. Step 1State your watch placement at the bottom of the shipping carton will be a box. This box contains: a) a key to match your clock door, b) a crankshaft that will be used to wind your watch, c) weights that trigger the movement of the clock. Also, inside the shipping cardboard will be the clock pendulum packed in a separate box. Keep plastic bags and small parts away From removing the scr barker cubes over the cable pulleys. This is one of the most critical points in the entire setup operation. Removing the styrofoam blocks at this time can cause cables to overlap and bind the movement. You can remove the Styrofoam blocks after they become loose through normal operation, which usually occurs after eight (8) hours of running time. Place the clock in its final position. After the place, enter your watch cabinet, because the clock doesn't work if it's not level. There are four (4) balances under the cabinet at every corner that can be knocked (top) or out (bottom) to make adjustments. Place a level next to the clock cabinet front to back and side to side, adjusting the stairs to the level. It may be necessary to periodically inspect the cabinet after initial setup, (especially if the watch is on the carpet), as it may settle down after the original peeling. (See Figure 2.) Make sure the clock is located square and solid on the floor so that it does not fall. Illuminated cases: Some clocks have lights that illuminate the inside of the clock case. Make sure that all packaging materials have been removed from the light before turning on the light. Note: To follow these steps we suggest wearing cotton gloves or using a soft cloth when handling parts. Step 2 pendulum the pendulum has colored protective plastic film covering the pendulum disc. Carefully remove this film before hanging the pendulum. To hang the pendulum, locate the pendulum guide through the front door, or any of the back or side access panel locations. When holding the pendulum guide in one hand, slide the pendulum in through the front door with the other. Place the pendulum hook through the slot in the pendulum guide, and lower the pendulum until it hangs safely on the pendulum guide. (See Figure 3.) Step 3 Weights Ings do not remove the Styrofoam blocks until after your watch has been running. You can remove the Styrofoam blocks after they become loose through normal operation, which usually occurs after eight (8) hours of running time. Most clocks use three weights. The bottom of each weight is marked as its correct hanging position as you see your watch from the front. The total weight of each weight is slightly different and each weight must be installed in the correct position for the watch to work properly. Check the weights to make sure they Gathered. Make sure the cables are on the cable wheel. Hang the weights on the pulleys. (See Figure 4.) Step 4SETTING MOON DIAL (available on some models)With your fingertips, apply slight pressure to the front of the moon dial and rotate the moon dial clockwise until the moon is directly below the Moon Day mark #15 (each symbol represents a moon day) on the moon's arc (see Figure 5). If dialing the moon does not rotate, see the Trouble Shooting section.See Almanac or Calendar and set the date of the last full moon. Count the number of days after the last full moon rotate the moon clockwise 1 lunar day for each day beyond the full moon. Example: If the last full moon was 3 days ago, rotate the moon dial clockwise 3 moon days so that the moon is concentrated on moon day 18 on the moon's arc. Dialing the moon is now set and will indicate the correct moon steps as long as the clock is running continuously. If the clock stops dialing the moon will also stop and be reset when the clock is started again. Step 5Devel to move (move your hands)Caution on movements with auto ring sequence: Bell selection lever should not be automatically positioned when moving hands. Moving your hands clockwise or counterclockwise while the automatic bell sequence is in operation can damage the ringing mechanism. Alert for movements with day/night shutdown features: The day/night handle must be at the strike position (all the way up) when moving your hands. To set the time, move only the minute hand counterclockwise (backward) to one hour and one minute hand are at the right time. (See Figure 6.) Do not move the time hand when setting the time. The hand of the hour will move automatically when a thin hand is passed. By moving your hand thinly counterclockwise there is no need to wait for the clock to ring as the thin hand passes every fifteen minutes. (See Figure 6.) The movement has a self-correction feature that synchronizes the bells over time. If, after setting the clock on time, it doesn't ring properly, allow it to run for two hours to repair itself. Step 6Start CLOCK Reach through the front door of the clock and place your hand on the side of the pendulum disc. Move the pendulum to the far left of the center and drop. Let the clock on for a few minutes until the pendulum settles into even wobbly motion. (See Figure 7.) If your watch earns or loses time after 24 (24) hours, see the General Information section to regulate clock time saving. After Styrofoam blocks become loose through normal operation, which usually occurs after eight (8) hours of running time, you can remove the Styrofoam blocks. Remove the Styrofoam blocks by lifting the blocks straight up until they clear the cable roller. Then gently push them back, through the cables. Do not use the blocks removal tool. Don't The cable to cover the drum. Step 1 targets these six steps to set watches that require weights dependent from clocketting your watch located at the bottom of the shipping cardboard and will be boxed. This box contains:a) a key to match your clock door, and ) weights that trigger the clock movement. Also, inside the shipping cardboard will be a pendulum packed in a separate cardboard box.//Warning: Keep plastic bags and small parts away from children. Move the clock close to its final position. WARNING: Make sure the clock is located square and solid on the LU floor so that it does not fall off. Set up rectifies for maximum stability and correct alignment. Access to clock movement, bells and chains was made in three possible ways; Through the front doors through the side or rear access panel. The rear access panel is held in place with plastic clips. Rotate the top clips to remove the back access panel. The side access panels are held from the inside using duct tape or a plastic cartridge. The tape may have been permanently turned upside down or the tape may be removed. See the General information section about how to remove and install side access panels. Remove the plastic braces from the bell bars by carefully tilting and sliding the braces down from the edges of the bell bars. Remove the foam pads between the hammers and the bell rods. Treatment should be taken to avoid bending the bell hammers and bell rods. The chains are already packed for delivery in a bag and located near the clock movement. Pull the bag free and cut the wire with scissors. Let the chains hang. CAUTION: Taps very much not to pull the chains through traffic or the sprockets while removing the plastic plate from the chains. Carefully remove the plastic braces by moving the braces down from the chains. Remove the spring clip from the back of the movement by pulling one end free. (See Figure 8.) Place the clock in its final position. After the place, enter your watch cabinet, because the clock doesn't work if it's not level. There are four (4) balances under the cabinet at every corner that can be knocked (top) or out (bottom) to make adjustments. Place a level next to the clock cabinet front to back and side to side, adjusting the stairs to the level. It may be necessary to periodically inspect the cabinet after initial setup, (especially if the watch is on the carpet), as it may settle down after the original peeling. (See Figure 9.) Make sure the clock is located square and solid on the floor so that it does not fall. Illuminated cases: Some clocks have lights that illuminate the inside of the clock case. Carefully remove the paper sleeve from the light before turning on the light. Note: To follow these steps we suggest wearing cotton gloves or using a soft cloth when handling parts. Step 2 Colored Pendulum Hanging Pendulum Plastic tape covering the pendulum disc. Carefully remove this film before hanging the pendulum. To hang the pendulum, locate the pendulum guide through the front door, or any of the back or side access panel locations. When holding the pendulum guide in one hand, slide the pendulum in through the front door with the other. Place the pendulum hook through the slot in the pendulum guide, and lower the pendulum until it hangs safely on the pendulum guide. (See Figure 10.) Step 3Thas weights The most clocks use three weights. The bottom of each weight is marked as its correct hanging position as you see your watch from the front. The total weight of each weight is slightly different and each weight must be installed in the correct position for the watch to work properly. Check the weights to make sure they are tightly added. CAUTION: Make sure that each link of each chain is positioned correctly on the teeth of the squalation. Hang any weight on a solid hook at the end of the chain, never on the chain links. (See Figure 11.) Step 4SETTING MOON DIAL (available on some models)With your fingertips, apply slight pressure to the front of the moon dial and rotate the moon dial clockwise until the moon is directly below the moon day mark #15 (each symbol represents a moon day) on the moon's arc (see Figure 12). If dialing the moon does not rotate, see the Trouble Shooting section.See Almanac or Calendar and set the date of the last full moon. Count the number of days after the last full moon rotate the moon clockwise 1 lunar day for each day beyond the full moon. Example: If the last full moon was 3 days ago, rotate the moon clockwise 3 moon days so that the moon is concentrated on the 18th lunar day on the moon. Dialing the moon is now set and will indicate the correct moon steps as long as the clock is running continuously. If the clock stops dialing the moon will also stop and be reset when the clock is started again. Step 5Stim the deflecting time (moving your hands)To set the time, move only the hand thinly counterclockwise (backward) to hour and minute hand are at the right time. (See Figure 13.) Do not move the time hand when setting the time. This hand will move automatically when a thin hand is moved. By moving your hand thinly counterclockwise there is no need to wait for the clock to ring as the thin hand passes every fifteen minutes. The movement has a self-correction feature that synchronizes the bells over time. If, after setting the clock on time, it doesn't ring properly, allow it to run for two hours to repair itself. Step 6Start CLOCK Reach through the front door of the clock and place your hand on the side of the pendulum disc. Move the pendulum to the far left of the center and drop. Let the clock run for a few minutes until the pendulum settles into a wobbly motion. (See Figure 14.) If your watch earns or Time After 24 hours, see the General Information section to regulate the time of your watch. Global information label Product information label identifies the clock model number and serial number. The clock model number and serial number are essential for obtaining parts or service. The product details label is located in several locations: outside the shipping carton, behind the door, on the back of the watch, at the top of the watch, in the upper rear corner of the watch, or inside the watch above the back of the dial. Check out this label when contacting us or your merchant. For an easy reference in the future, enter a moment to record these numbers in the space provided in the Service Details section (page 12). Attach your sales confirmation to this guide for future reference. LABELMODEL#SERIAL#MOVE YOUR CLOCKCare product information should be taken every time you move the watch to ensure that all parts of the accessory such as the pendulum and weights are removed and properly packaged to prevent damage. Never use cable drive movement without installed weights. How to remove/install the top side panels from your watch may be wood or glass top side panels. When removed, you will have access to the clock movement and bell area. The panels may be held in place during delivery via tape or plastic clip. To remove the board, reach through the front door and make a plastic clip or remove the tape. Then do the following:1. Hold a tree or one with your fingertips. Be careful not to push on the grill cloth or glass as you might separate it from the board on the wooden top side.2. Lift the top panel up. He's resting in the grove at the lower end.3. Push the lower end of the top panel towards the center of the paddock and, at the same time, pull the top edge down and out of the groove at the top of the opening.4 Tilt the top edge of the top panel toward the center of the catchers.5. Remove the top panel from the opening of the frame, bottom edge first. When you install wood or glass side panels that are reversed steps 1 thru 5.STEP 1 step 2 step 3 step 4 step 5GLASS featuresNote because minor character symbols are created by glass-forming processes such as heat bending, cropping, or polishing. These character symbols are visible. They're natural and don't count as flaws. When cleaning glass, use a non-ammonia glass cleaner. Never spray the cleaner directly on the clock. Weightlifting must be lifted every seven (7) days or the clock will stop. CRANKHOLECRANKHOLECRAFIGURE 1FLOOR CLOCK: Cables with pulleys and weights dependent on cables with pulleys must be raised using the provided winch. Do NOTLIFT the weights by hand while cranking. Insert the crankshaft into the archival holes located on the face dial (see Figure 15), and rotate the crankshaft counterclockwise. Lift the weights. Floor Clock: Important Chains: Pull straight down on the chain. Not lifting on the weights like this can cause the weights to come unhooked from the chains. Pull down the loose end of the chain until the weight is about 2f from the bottom of the frame movement assembly board. (See Figure 16.) THMEKEEPING throttlingChange the speed at which time is saved is achieved by moving the pendulum disk up or down. The pendulum disk is moved up or down by making the adjustment nut. To slow down the clock, move the pendulum disk down by turning the adjustment nut to the left. To speed up the clock, move the pendulum disk up by turning the adjustment nut to the left. (See Figure 17.) First day. Select a time of day that allows you to check your watch simultaneously for at least six days.2. Peak time selected..... 3. Check the correct time.4. Redefine the thin hand to the exact right time. Day two, three, four, five, six (if necessary)1. Check the correct time.2. Compare the time shown on the clock at the correct time. Is your watch fast or slow? Activate the matching nut on the pendulum. One whole revolution equals about half (1/2) a minute fast or slow per day. (24 hours). Exact time adjustment varies for each pendulum.4. Check the correct time.5. Redefine the precision minute hand, correct time. Automatic nightime shutdown (available on some models)Some clock models have an option that will automatically mute the ringtone and strike time from 10:15 a.m. to 7:15 a.m. (last ring at 10 p.m. and first ring at 7:15 a.m.). Use the handle on the right side of the dial to select this option. If your watch is silent between 10:15 and 19:15, you must turn back your clock hands for 12 hours. First, take out the night-off movement, then move your hands back 12 hours, rotate your hand thin (only) counterclockwise to the right time. Illuminated cases (available on some models)Some clocks have lights illuminating the inside of the clock case. Carefully remove the paper sleeve from the light before turning on the light. CHIME Selection The bell melody selection is achieved by a clock dial selection lectern. Some models only play the Westminster ringtone, while others give you a choice of three tunes. Some models also have an automatic bell sequence feature. This feature allows the movement to automatically change the selection of bells at any time. The bell sequence feature or one of the three bell tunes is selected with the handle of the switch. If the dial says silent ringing, your watch just has a Westminster ringer. If your clock has a triple ring movement, the ring handle recognizes the melody options. All the clock movements on the floor have the gong of Big Ben's hour, which will count the time, in an hour. DO NOTattempt to move the bell selection While the clock rings. This may damage the bell mechanism. See Figure 18 when it is safe to move the bell selection lectern without damaging the movement. Handling and maintaining your watch requires little care and maintenance. Listed below are steps you can take to maintain the exceptional quality of the watch.• Wind your watch every seven (7) days.• Keep the door locked.• Wax and polish your watch cabinet as often as you make your other furniture. Use non-silicone liquid or adhesive wax.• Avoid exposing the clock to adjust sunlight and protect against extreme temperatures and moisture changes. Prolonged exposure to direct sunlight can fade while extreme temperature and humidity changes can cause the tree to split or crack.• Check periodically to make sure the clock leans firmly on all four stars. This is especially important in the first few months if the watch is on the carpet. When the watch's feet sit on the carpet, it can be unbalanced. Each of the four levels may need to be adjusted.• Check the weights periodically to make sure they are still tightly assemble.• It is recommended to lubricate the clock movement every two (2) years from the purchase date and thoroughly clean every five (5) to ten (10) years depending on climate conditions. Very dry, humid or salty air, heat or cold may require more frequent service. We do not recommend you to service the clock movement yourself. Contact an authorized service center. (See Service Details section) Move the ringer selection lever only when a thin hand is in a safe time zone and whehrer that all instructions provided with your product have been carefully monitored. These instructions will provide detailed information to answer most questions. Contact our website for a list of frequently asked questions that may conveniently resolve the issue or answer your questions. Difficulty spinning the moon dial if the moon dial does not rotate (as described in operations set to step 4), this may indicate that the gears which automatically promote the moon dial are activated. To correct this situation, turn your hand back 3-1/2 hours as described in step 5 of the setup operation, set the moon dial, and then set the time as described in step 6.If the clock rings more than one minute before or after the appropriate time, remove and adjust the thin hand. CLOCK doesn't ring at the right time: Be careful not to scratch the hand nut, hand, or dial.1 When the clock starts ringing, stop the pendulum and record the time.2. Using a per pincer, carefully remove the small nut that holds the thin hand in place by turning the nut counterclockwise, while holding the hand thin with your fingers next to the small nut.3 Remove the hand from the shaft by holding it Fingers at the point where it connects to the shaft. Pull your hand straight. This hand isn't and needs to come down easily. Thin hand there's a small raised area on the back side directly around the shaft hole, it's the hand cannon. Using a pinch, hold the prostheses tightly by its sides so that it cannot slide in theerring. With the other hand, turn the clock hand forward or backward the distance needed to ring at the right time. (See Figure 19).4 Reconnect your hand to the shaft and rotate the nut finger with your hand firmly. Make sure that the hand indicates the correct location that you recorded in step 1 plus any corrections that you made in step 3. If the hand does not point to the correct symbol, repeat steps 2 and 3.5. Cuddle the nut with the flyer. Don't tighten up more than six. Start pendulum.7. Redefine the time by moving only a thin hand counterclockwise (backward) as described in step 5 of the setup operation. Example: The clock rings at 1:10 but should ring at 1:15.Step 1: When the clock rings at 1:10, stop the pendulum and translate the time of 1:10. Step 2: Carefully remove the little nut. Step 3: Remove the thin hand. Hold the stretches on its sides and turn your hand forward for 5 minutes. Step 4: Reconnect the hand so that it points to 1:15. Connect the finger of the hand nut tight. Step: 5 Curl up with the hand nut. Step 6: Start a pendulum. Step 7: Reset the clock to the current time. The clock does not hit the correct time if after several hours of action your watch does not hit the correct time, grab the only hour hand and move it forward or backward to hang with the correct time on the dial indicated by the number of times the hour strikes. Rotating this hand independently will not damage the clock. If the thin hand (to correct time) must be reset, move the hand clockwise (backward) as described in step 5: Set Time.CLOCK not ringing or STRIKE1. Make sure that the selection lecter is not in quiet mode or halfway between the two ring tune positions?2. Make sure that all packaging material is removed from the transaction domain.3. Make sure the weights depend on the correct position Check the label at the bottom of each weight to ensure the appropriate position.4 For models with nightly mute, make sure the watch is not in a state of nighttime silence. (Browse: See Auto-off option at night in the General Information section.5. Check the hammer fitting and the correct ring tone if necessary.6. Move the bell selection lecter to another tune or to silence.7 Sulkar cubes located above cable pulleys may require the cable. Carefully remove the styrofoam blocks by lifting the blocks straight up until they clear the cable pulley. Then gently push them back through the cables. Do not use the blocks removal tool. Do not allow cables to overlap the drum. The bells have the TONEDO doesn't match bell hammers unless the ring tone is wrong. The sound of bells may be influenced by the comfortable hammers on the bell bars or hitting the rods in the center. Although the hammers were set in the factory, they can come out of a match. For most watches, there will be no need to match bell hammers. There are different types of bells, (rods and tubes), please find yours below. ROD sea hammer arms and bells are made of brass and can be bent safely. If necessary, adjust the hammers so that they do not disturb each other as they move or hit the bell rods. This is achieved by bending the hammer arms slightly in the middle, so that each hammer rests about 1/8 from each rod. (See Figure 20.) Don't bend the bell bars. The ring volume cannot be adjusted on the movement of a bell bar. CHIME tube hammer arms are made of spring steel; Don't bend your hammer arms. The clarity of sound is determined by the distance between the hammer and the bell tube. It's usually 1/16. (See Figure 21.) However, this distance can be adjusted by loosening or tightening the thumb screw attached to the hammer spring. (See Figure 22.) Important: If the voltage is too strong or the string is too tight, it may cause the ring to stop during the ringing process. NOTE: The hammer voltage screw is set in the factory, and it is not adjustable. Weights do not drop at the same level when the automatic night shutdown feature is selected, and on some models the silent feature, the central weight will drop at a faster rate than the other weights. CLOCK won't ring (or if you're not allowed to fix your watch, you should check these items before contacting us, your merchant, or an authorized service center. (See Service Details section.) Don't try any adjustment you don't feel confident in execution.1. Has all the packaging material been removed from the traffic area?2? Has the pendulum guide's spring clip been removed from the back of traffic?3. Have you tried rebooting your watch? Being on pace is necessary for your watch to keep running.4. Do the weights depend on the right position? Check each weight bottom for the correct position.5. Does the pendulum damage the weights or the bell rods? If so,

check the level and stability of clock.6. Is the clock level?7. Did the pulley come off the cables or chain up the sprocket?8. Do the hands work undisturbed? Don't let by the hour hit the other hand. If the other hand rubs the dial, take it out a little. If the hand of the hour is rubbed on the back of the thin hand, the hand of the hour should be pushed closer to the dial (put the thumb nails on the central part of the hour and push). PendulumphotophosmbsPeople Citys Hoppies In JapineBulumGUIDE9. Did you check the click spring on the back of the moon dial? Removing Sloker Before they got out of normal course of action? (Usually occurs after eight (8) hours of runtime)11. Did you check the suspension spring? If it is damaged, it must be replaced. (See Figure 23).12 Is the threshold pin positioned correctly in the pendulum guide slot? If not, re place the threshold pin. (See Figure 23).13 Sulkar cubes located above cable pulleys may require the cable. Carefully remove the styrofoam blocks by lifting the blocks straight up until they clear the cable pulley. Then gently push them back through the cables. Do not use the blocks removal tool. Do not allow cables to overlap the drum. This limited product warranty was manufactured only using the best ingredients and thoroughly tested prior to the departure of our manufacturing facility. Howard Miller undertakes to the original consumer/purchaser or recipient that this product will be free of defects in material and work under normal use and service for a period of two years from the date of purchase. Howard Miller's obligation under this warranty will be limited to repairing the product with new or refurbished components, or, according to its possibility, replacing it with a new or refurbished product. This warranty does not include damage to product or components arising from abuse, accident, modification, climatic/environmental conditions, damage beyond normal use, cargo damage, receipts, misuse or unauthorized repair. Howard Miller disclaims any liability for incidental or consequential damages arising out of this breach of liability or any implied liability. An implied warranty for this product shall be valid only for the duration of the express warranty set forth above and thereafter, there will be no warranty, express or implied, (including sepia or competency for any particular purpose), in this product. Some countries do not allow the exclusion or limitation of incidental or consequential damages or the limitation of the implied warranty duration so that the above limitations or exclusions do not apply to you. This warranty gives you specific legal rights, you may also have other rights that vary from country to country. Service information Before service is pursued, make sure that all instructions provided with your product have been carefully monitored. These instructions will provide detailed information to answer most questions. Contact howard miller's website (www.howardmiller.com) for a list of frequently asked questions that may conveniently resolve the issue or answer your questions. In the unlikely event that your watch appears inadequate or requires repair, North AMERICAplease called one of our repair technicians at (616) 772-7277 (#386). Outside North Americanana, call your distributor or agent. If they determine that the problem cannot be easily solved, they will help locate Center in your area. Before connecting, please enable the following information. The model number and serial number can be found in the product information label (see General Information). Model Number: _Serial Number: _Date Purchased: _Where Purchased: _Brief Description of problem:_Please There are either these instructions and the receipt of the sale or other similar proof of the original purchase is available at the time of your call. Most problems can be resolved quickly without returning the clock to service. Procedures for receiving repair service1. Contact the merchant from which you originally purchased the product or authorized service center. No repairs made by an authorized service center will be paid for.2. You will be required to provide a copy of the sale receipt or other similar proof of the original purchase in order to receive warranty service.3. Provide the Merchant/Service Center with the model number and serial number and a complete description of the problem. The Merchant/Service Center will arrange this to service the product and/or order required parts.4 Merchants and service centers do not require prior approval for service and repairs. The Merchant/Service Center will provide the necessary service and will charge the responsible warranty in accordance with the Limited Warranty Guidelines.5. A return confirmation is required for all returns. If you have been granted permission to return the product, you will be given a return authorization number (#RA). Please include this return permission number, above your name, in the address label. Also include a copy (do not send original receipts because they cannot be returned) of receiving the sale or other similar proof of the original purchase. Returns without prior authorization or proof of purchase may be subject to additional charges and delays. If a return is required, please pack the watch in the original packaging. Failure to properly pack the watch may result in damage not covered under warranty. Non-warranty repair service charges will result in repair services if no sales receipt or other similar proof of the original purchase is provided, if no instructions have been made, if the product exceeds the period of limited warranty or otherwise exceeds the scope of the limited warranty. He's the hedding he's the hedding he's the hed he's the hedding he's the hed The hedding service and/or parts for fixing these adjustments are at the consumer's expense.1. Get ready. Setup instructions have been provided with your product.2. Mechanical movement from fast and clock hedding. Movement in the clock is a mechanical mechanism and, therefore, requires periodic oil and cleaning according to climatic and environmental conditions. Under normal conditions traffic requires With high quality watch oil approximately every two years from the purchase date. Please contact a certified clock repair person or service center for this service.3. Replacing the hanging spring. Replacement instructions have been provided with your product. Please return the broken suspension spring to us for proper identification and replacement.4 Pendulum, timing, and bell hammer/strike adjustments. Instructions for these adjustments were provided in this publication. Cargo damages not covered under the responsibility of the freight forwarder's responsibility to claim any loss of transport or damage directly with the carrier. If the carriage indicates signs of visible damage, instruct the driver to indicate the damage to the transport bill. If the tone contains hidden damage, notify the supplier and request in writing within 14 days of receiving a vendor inspection and damage report. Failure to notify the supplier within 14 days of receipt of the product may waive your rights to damages. Important Safety instructions for electrical furnitureRead all instructions before using this product. Caution – In order to reduce the risk of burns, fire, electrocution or injury to persons, basic precautions must always be taken when using electrical furniture, including the following:a) Detach from a sediment before cleaning or pulling parts or taking parts.b) Close supervision is required when this furniture is used by children, disabled or disabled or near them.c) Use this furniture only for its use as intended as its sights. Do not use attachments that were not recommended by the manufacturer.d) Never turn on this furniture if it has a faulty cable or plug, if it is not working properly, if it has been dropped or damaged, or thrown into the water. Return the furniture to a service center for inspection and repair.e) Keep the cable away from heated surfaces.f) Never turn on the furniture with the air vents blocked. Keep air vents without lint, hair, like.g) never drop or insert any object into any opening.h) Do not use outdoors.i) Do not operate where aerosol products (aerosol) are used or where oxygen is administered. c) To disconnect, turn all controls into an off position, then remove outlet.k) plug for grounded products – connect this furniture to a properly grounded socket only.l) for charging – always put heavy items at the bottom rather than near the top to help avoid the possibility of the furniture turning over. Warning – risk of injury to people – Do not use this furniture as a ladder.m) Do not use this furniture for other purposes than the intended use.n) Do not use this furniture in the presence of flammable anesthetic mixtures.o) Do not use this furniture in the presence of pure oxygen.p) Do not use this furniture in the presence of explosive and explosive mixtures. The weight pendulum is the pendulum in this guide, setting up the pendulum to get the right time. Please read this manual carefully before installing and using this product. Keep this manual for the vocal indication of the time at the point (left weight), time (center weight), and melody or carillon (right weight). Without those three weights, the watch wouldn't have worked. Each weight is different and must be properly hung from the mechanism (left, centre and right) to ensure proper action. Weights hang from the mechanism using a cable or chain. Weights must be raised at least once a week, or the clock will stop. Lifting cable-powered weights requires a handle. Raising chain-operated weights is achieved by pulling the free side of the chain. The sounds of the indication from time to point and melody are formed when a series of hammers hit bars of different lengths. Every bar sounds different when you give it the hammer. Specific melodies are achieved by controlling a sequence in which hammers hit bars. IMPORTANT INFORMATION• Use to take a moment to specify the space provided on page 35 of the Service Details section, the model number of the watch, as well as its serial number.• The product information label tells you both the watch model and its serial number. Both (model number and serial number) are essential for refactions or service. This product information label can be found in several places: outside the shipping tag, behind the door, behind the clock, above the clock, or inside the watch above and behind the face. Please refer to this label when contacting us or your merchant.• Add your receipt or invoice to this guide for future reference and write down the product information label information, as specified on page 25.• Save the original packaging items used to ship your watch station. FONCTIONNEMENT de BASE D'UNE HORLOGE de parquetle mouvement est au cruer de toute horloge de parquet. Il wasn't Co-Ky-Becker Le Sonnery de Heurs and Le Caryon and Compet du Temps. La Padula and La Puydes Sonnet de Composts Essential do Mumant de Benn. La Pendrola's la possibilities de constant et de regler le mouvement. Comme le decrivent ces instructions, les differents reglages du pendule permettant d'get compte precis sont easy to effect. Les trois poids fournissent l'alimentation a la sonnerie (opioid gauche), l'heure (central poids) et au carillon (droit poot). Suns Oaks, Can't work. Each is different and must be properly suspended (left, center, and right) with a cable or container to ensure proper operation. They must be raised at least every seven days to prevent the clock from stopping. Raising the entrames weights using a cable is done with the help of crankshaft. The weight of entrames per came is done by pulling the free limbs downwards. The sound of the ringing and the ringing is produced by a series of hammers protruding stems of a different length. They each have a special sound. The melodies are greeted by controlling the strike sequence. Important RENSEIGNENTS - Take a moment to record the model number and serial number of the space clock provided for this effect in the information section for depannage, page 36. These are absolutely necessary to obtain pieces or repair. The etiquette can be found in various places: outside the shipping board, behind the door, at the back of the clock, at the top of the clock, in the upper corner of the bottom of the clock or in it, above the back of the dial. Make this badge by contacting us or your constituent. WIE EINE STANDUHR FUNKTIONIERTDas Herzstuck jeder Standuhr ist das Uhrwerk. Das Urwark at the best of Dan Stoneschlag, died Zeitamsong and Dan Wirtelschlag. Das Pendle died Gewichte sind wichtige Bestandteile Fur das exakte Funktionieren des Uhrwerks.Das Pendel macht das Regulieren and Einstellen der Zeitmessung moglich. In 2015, after Netanyahu established our home, in an interview with Economist 1222, in 2015, Nam Gantz Zetzel. Die drei Gewichte treiben den Stundenschlag (Gewicht Links), Die Zeit (Mittelgewicht) and die Melody de Gong (Rechtes Gewicht) W. On Dia Gwicht Ward dies Ober Nicht Funktiinert. Jed Gwich ist verschieden and muS zum exakten Laufen der Uhr a dem Uhrwerk richtig aufgehangt werden (links, bed, rechts). Die Gwichet Sindo Antweed Mit Ein Derhatsyle Ausser Einar Kath and Dem O'Erwark Iyengangt. Di Gwichta Mohsen Mindestens to 7 Tega Nach Oban Gesen Warden, Demmit die Uhr nicht stehenbleibt. Gwichta Mit Silzog Warden Mitt Ainer Corbell, D.H. Blood Opzschlossel Nach Oban Gogan. Gwichit Mitt Katantnantarih Warden Nach Oban Gazogen, Housing Man Das Fry Enda der Kat Nach. Dr. Tonden-and Der Wirtelstundschlag Warden von Ayner Reya von Hameren erzeugt, Die Gongstabe Long shot. Each of the sticks sets a different tone when hit by a hammer. Special gong melodies are created by establishing an order in which each hammer attacks the appropriate rods. Important Information• Please enter the clock's model and serial number in the Service Details section of page 38.• The product information label displays the model and serial number of the watch. These numbers are especially important for the service and maintenance of spare parts. The product information label may be placed in different places: on the shipping carton, at the back of the column, on the back of the watch, at the top of the watch, in the upper rear corner of the watch or inside the watch on the back of the dial. Please refer to this label when contacting us or your handler.• See this guide for further reference and enter the information from the product information label as specified on page 26.• Please save the original packaging of the watch. Espanyol Francais de MATIERESCONTENIDORELOJ DE PI: cableholrge : Cable content stand: DRAHTSEILInformacion important..... 15Pase Armer Sue Relo..... 17Para Kolocar Las Pesce.....

..... 19Signed are important
..... 20Reglage de 15Lasting your watch..... 18 hanging pendulum
..... 18 weights attached..... 20Stiget Moon..... 22 Start the clock..... 23Para Ajtar al Muiminto de la Luna
..... 22Spension du pendule
..... 24Reglage de l'heure..... 24Stating your watch..... 22 weights Einstan, 7m sorry. 24Die Uhr starten..... 25 Para Trasladar Sue Reloj
..... 25Caracteristic as Del Vidrieo..... 27Opsione by Silenciador Nocturno Auto . 27Seleccion de Melodia o Carillon
..... 29EN CASO of what exists MASSI problem3 does not chalk up to Movimiento de la Luna..... 29Si Sue Reloj No Soana Cuando Debe ..... 31Si Sue Reloj No Indica la Hora Correcta ..... 31Si Su Reloj No Indica la Hora Audiblemente ..... 31 Para Ajustar Los Marillos..... 33Si Sue Reloj no funciona..... 33 Grantia Borderada..... 35 Information de Cervicio ..... 35 tilts of product information. . 26Watch location..... 26 Containing and removing later of people breastfeeding..... The 32 weights don't fall with 34th the clock doesn't work..... 26Ihre Uhr beim Umzug..... 26Das Installieren /Entfernen der oberen..... Sainthorne... 26glass market..... 28 Zeitamsong Regoliern ..... 28Abastlan automatis of tons of Nacht house. isn't ringing at the right time. . 32 The ringtone or the ringtone doesn't work..... 32Hammer Fur Dan Gong justieren..... 34 Aupet Nicht..... 34 Garretti..... 36SERVICE..... 28Melodienauswahl..... 30Pflege und Wartung..... 30PROBLEME LOSENMondziffernblatt Lasst sich nicht drehen . . 30Gong Schlegt Nicht Tzur Richtigan Olive ..... 32 Melody and Tonschlag Funkinnirich..... 32Hammer Fur Dan Gong justieren..... 34 Aupet Nicht..... 34 Garretti..... 37Servic information..... 37SIGA ESTOS SEIS PASOS PARA ARMAR RELOJES As required pasas suspend Om Cable Paso 1ESPONJASCOUSSINETS Moss's SCHAUMGUMMIEINLAGENMARTILLOS CARILLON GONGHAMMERCAJA CARDBOARD CARDBOARD SLEEVE PROTECTORHULLEBARRAS CARILLATION TIGS OF CARASTOTECHNIC CABLE CABLES STYROMOUSSE Sponge STYROPORBLOCKE Arm your watch at the bottom of the shipping cardboard is a box. This box contains: a) a key to your clock door, b) a handle with which to activate the clock, and c) weights that activate the three mechanisms. In addition to these items, inside the pendulum box you will find the pendulum guide. NOTE: Make sure the watch is in a solid part of the floor, so you don't risk going downhill. Adjust the rectifies for maximum stability and alignment. Access to the clock mechanism, clothes and carillon panels can be in three ways: through the front doors, through the rear access door. The upper panels are held inside by duct tape, which can be removed from there permanently. See the General Information section on page 25 for instructions on installing the top panels. Remove the cardboard lining, which surrounds the repique rods and pendulum guide, so that you grab the lining by points 'A' and 'B' and pull it down by holding it straight. Remove until the talking rods and pendulum guide are complete. (See Figure 1.) Figure 1 Figure 1 ABBILDUNG 1 We have lifted the foam shields between the hammers and lift the repitle rods. Avoid carefully bending the repitle hammers. After removing the cardboard lining, the repique hammers can move freely, allowing foam shields to be easily removed. VERINS LEVELER DE CALAGE JUSTIERSCHRAUBENO Remove the ESPONJA packages that are over the pulleys. This is one of the critical points when putting your watch together. Removing sponge packaging can now cause cables to become entangle and stop traffic. You can remove the blocks of Scruffer after they become loose by normal operation, which usually occurs after eight (8) hours of time. Figure 2 Figure 2 ABBILDUNG 2 Places the clock at its final destination. Already in place, the cabinet should be strained, because there is a possibility that the clock won't work if it's not level. There are four (4) balances under the closet, one at each corner. These can be screwed inward (climb) or outward (go down), allowing for the necessary adjustment. Position horizontal and vertical level and adjust the stairs to the level. It may be necessary to check the exfoliation periodically (especially if the watch is on a carpet), as it may be settled after The original level. (Arrears 2). Asgurza da Ca El reloj se encuentre firmemente posicionado sobre el piso, para que not se caiga. Cajas iluminadas: Algonus relojes tienen los que iluminan face de la caja del reloj. Di Con Cuido el Papale de la Bombilla ANTES de usar la luz. Note: Para los siguientes passos, recomendamos que utilice guantes de algodon, o una tela de mild-mannered material, el tocar las diferentes piezas. PASO 2PARA Collagar to PENDULOAlgunos pendulos tienen una capa protectora de plastico que culren el disco del pendulo. Tanga Cuidado To Removes Este Plastico antes de Colgar el Pendulo. Para Colgar El Pendulo, encuentre la guia del pendulo a traves de cualquiera de los paneles de acceso. Minatras Sostien La Guaya del Pendulo Con Una Mano, Cuelgue el Pendulo Sobre la Guia Para Mana. Kolok Ei Gando Ne Pendulo, Anchimata del Pasador, or Transves de la Ranoa de la Goya, Baja Island El Pendello Haste Cawood Colgando de la Guaya del Pendulo. (Arrears 3). Follow these six catchers Mots. Notes: Do not boys are not suspended with us for Follow step, Hazzles DIESE SECHS SCHRITTE ZUM AUFSTELLEN von Ohran Mitt Gwichten, Die Zillerollen and DRAHTSEIL AUFGEHANGT SIND SCHD SCHRITT 1DAS AUFSTELLEN IHRER UHRTherE is a bofte at the bottom of the shipping board. This bofte contains: a) key for the clock door; b) Crankshaft to lift it; c) Weights for activating movement. You will also find the pendulum packed in a separate cardboard box. Place the clock near its defining position. Warning: Make sure the clock is securely held up on the floor to prevent it from turning over. Align the stay to give maximum stability and ADEQUAT alignment. There are three fagons to access the movement, ringing and cables of the clock: through the front doors; by pressed panels (or doors pressed in certain clocks); Or by the back access panel. The super-boards that are borne are held from the inside using duct tape or plastic hardened. It can be rotated; You can remove the tape from the permanent impersonation. See the Generalites section on page 26 to familiarize yourself with the instructions for installing and removing these signs. Remove the cardboard sleeve surrounding the bell stalks and pendulum guide, hold the sleeve at points A and B, and then pull straight. Pull completely up to the stems and the guide are completely degages (see Figure 1). Remove the foam pads between the hammers and the bell rods. Be careful not to bend the bell hammers. The latter can move freely Because the cardboard sleeve is removed, making it easier to remove mousse.NE not STYROMOUSSE blocks above the pulleys. This is an essential point for editing. The cables can overlap and block traffic if polystyrene foam blocks are now removed. You can remove polystyrene blocks after they are cut off by normal operation, which usually happens after eight (8) hours of running time. Place the watch in the right place, take care to balance the crate. If not, the clock might not work. The four (4) calibration fraternities can be knocked or designed under the four-corner box to make this adjustment. Place a level along the crate, forward to back, and side to side by adjusting the venom. It may be necessary to check the box peeling periodically after the initial installation (especially if the watch is on a carpet or carpet) since it can sit (Fig. 2). Make sure the watch is stuck securely on the floor to prevent it from turning over. Some clocks have lights inside their bavati. Carefully remove the paper sleeve from the lamp before activating. Note: To take the following steps we suggest wearing cotton gloves or using soft fabric while manipulating parts. PENDULESSSOMES ETAPE 2SUSPENSION is covered with protective colored plastic film. Remove it before suspending the pendulum, the case. To hang the pendulum, look for the pendulum hanger in one of the two sides of the case. Place the pendulum hook over the pin or cut the rod and lower it so that it is suspended tightly (Fig. 3). Of Blood Boden de Vermeckenen finds Si Ayn Shechtel. Dista Shechtel enthalt: a) Einen Slossel Fur Ihre Uhrenturm, b) eine Kurbel zum Aufziehen Ihrer Uhr und c) Gewichte, die Das Uhrwerk antreiben. In dem Versandkarton befindet sich eberfalls das Uhrpendel in einem separated karton verpackt. Rucken sie die Uhr in die bevorzugte Position. Warnung: Stellen sie sicher das die Uhr auf einer festen Oberflache steht, um ein Umkippen zu vermeiden. Richten sie die Stutzen aus, um Halt zu geben und Stabilitat zu erreichen. Der Pendelschlag ist in einer