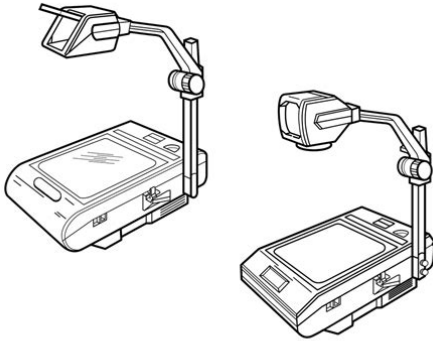


### Model 2100 (4100) Overhead Projector



#### Service Manual

(Order the M2100 Illustrated Parts Breakdown separately - Stock # 78-6970-4936-5)

78-6970-1335-3

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Projector Lamp Assembly with Genuine Original Osram PVIP Bulb Inside. Register a free business account Please try your search again later. If you have any further question, feel free to consult them or just send us messages—we're always here to assist you! 2. This lamp can be easily replaced by average users, in most cases there is no need for highly skilled professionals to step in. 3. For better performance, consider cleaning air filter as well when replacing the lamp. 4. Only qualified, pretested lamps will be shipped. So, if the lamp doesn't come on the minute it's installed, there may be certain other issues with the projector, especially its power supplier. 5. If the colors do not look the way they should be, it may have something wrong with projector's color wheel instead of the lamp. The lamp supplies lights only. 6. Kindly consider sending us a message before leaving a Product Review or Seller Feedback in haste if you encounter some issue. It'll be resolved more efficiently in a prompt fashion if we could work it out together. Thank you! MI Technologies, Inc. Next page Upload your video Video Customer Review Lutema Replacement projector lamps. See full review MI Technologies, Inc. Onsite Associates Program Amazon calculates a product's star ratings based on a machine learned model instead of a raw data average. The model takes into account factors including the age of a rating, whether the ratings are from verified purchasers, and factors that establish reviewer trustworthiness. Click on the list of approved cleaners below Numbers only. eg. 5555555555 I understand that I may unsubscribe at any time using the optout link provided in every electronic message. A representative will contact you shortly. Please try again. Please try again. Used under license in Canada. You can personalize your settings and increase your security with the projector's many modes. You can personalize your settings and increase your security with the projector's many modes.

Security features include PIN code lock, My screen lock, transition detector, and Kensington lock bar Room layout often dictates that images have to be projected at an angle to screen. Keystone, or trapezoidal, image distortions are the result. The vertical keystone correction feature allows you to correct these distortions. Let us know YOUR RECENTLY VIEWED ITEMS Browsing History ON Clear History Not responsible for typographical or illustrative errors. Please check your inbox, and if you can't find it, check your spam folder to make sure it didn't end up there. Please also check your spam folder. We are committed to doing everything we can to ship your package as soon as possible. For more information please visit our FAQ page below. COVID FAQs See specs for product details. Replacement available. Maximum order amount is 0. Warranty and Limited Remedy. This product. This product will be free from defects in material and manufacture for a period of Except where prohibited by law, 3M will not be liable for any loss or damage arising from this All Rights Reserved. All Rights Reserved. For these purposes we created a catalog system, where all documents, that we have, are sorted by device name. The 3M Projector manuals are sorted by popularity among Guidessimo users by the number of downloads and views on our website. These can be purchased from [www.bestwayaftersales.co.uk](http://www.bestwayaftersales.co.uk) If you are still within your warranty period, please contact the After Sales team to process a warranty claim. This is not a manufacturing issue. This is not a manufacturing issue The Splash Frame Pools need to be set on flat and level ground This is normally caused when the pool is not on level ground The pool should be filled to 80% capacity This depends on how often the pool is used, and if a filter pump and chemicals are being used. If the water is being maintained with the correct chemicals and filter system, then the water can last the summer season.

<http://www.drupalitalia.org/node/68407>

We would recommend using chemicals to maintain the health of your water, this will also mean the water won't have to be changed as often This can be caused by excessive chemical use or overexposure to direct sunlight. If this is the case, this will not be covered under warranty. The pool should be cleaned with a mild soap and water solution, such as washing up liquid or an alternative

nonabrasive cleaner. It is recommended that the pool is stored in a cool dry place during the winter period as the cold weather can damage the PVC walls. Pools should be cleaned and thoroughly dried before being stored. Please ensure the pool is set up on flat and level ground. It operates in 600 volts in dry environments, for applications that require high mechanical strength and resistance to high temperatures. It is specially treated and prepared to provide corrosion-free protection. For use as a coil cover, anchor, banding and core, layer and crossover insulation. This tape is used for heat-stable insulation for furnace and oven controls, motor leads, and switches. With a huge range of versatile and specialist tapes, 3M supports dozens of industries and applications, from heavy-duty construction to DIY around the home. Whatever your needs, 3M supplies an adhesive tape that won't let you down. How can I see products similar to this Model OBH4891.qxp Piping. Drain hose. Air outlet. Drain outlet Power supply. Capacity Rated frequency Min..Max.. Cooling. Heating. Electrical data. Power outlet. Power input 1 Total. Running current 1 Total. Power factor 1 Total Heating. Starting current 1 Total. Coefficient of performance C.O.P 1 Total. Compressor Heating. Model. Output. Current 1 Heating Heating Fan motor. Current 1. Special remarks. Dimensions W/O/H/D. Weight. Dehumidification. Sound level 1. Fan speed regulator. Refrigerant filling capacity R410A. Refrigeration oil Model NOTE Test conditions are based on ISO 5151. Cooling Indoor Drybulb temperature 27. Outdoor Drybulb temperature 35.

<http://www.btrcontrols.com/images/canon-lv-7295-manual.pdf>

Heating Indoor Drybulb temperature 20. Outdoor Drybulb temperature 7. Refrigerant piping length one way 5 m Wetbulb temperature 6 Specifications and rating conditions of main electric parts. Item Fuse Current detecting Relay Heater protector Terminal block OBH4891.qxp OCTAVE BAND SOUND PRESSURE LEVEL, dB re 0.0002 MICRO BAR Test conditions. Cooling Drybulb temperature 35. Heating Drybulb temperature 7 Wetbulb temperature Bolt pitch for Air out Handle OBH4891.qxp Muffler. Stop valve Discharge Outdoor Muffler. Outdoor heat Defrost Strainer. Flared connection. Capillary tube Stop valve Refrigerant flow in cooling. Refrigerant flow in heating. MAX. REFRIGERANT PIPING LENGTH and MAX. Model Max. length. Max. Height difference Liquid Max. Height ADDITIONAL REFRIGERANT CHARGE R410Ag. Refrigerant piping length one way. Outdoor unit Since operating conditions vary according to the areas where these units are installed, the following information has been provided to clarify the Cooling Heating The thermometers must be attached to the position where air Attach at least 2 sets of wet and drybulb thermometers to the outdoor air intake. Cover the thermometers to prevent direct rays of the sun. Check that the air filter is cleaned. Open windows and doors of room. Press the EMERGENCY OPERATION switch once twice to start the EMERGENCY COOL HEAT MODE. When system stabilizes after more than 15 minutes, measure temperature and take an average temperature. Wet and drybulb Indoor air Wetbulb temperature Cooling capacity Dr Capacity correction factor Input correction factor. Indoor air Drybulb temperature Indoor air Drybulb temperature Indoor air Wetbulb temperature OBH4891.qxp Indo Capacity correction factors. Input correction factors. Capacity correction factors Correction of Heating capacity Correction of Cooling capacity The operational frequency of compressor The operational frequency of compressor The operational frequency of compressor The operational frequency of compressor Input correction factors.

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Capacity correction factors Correction of Heating capacity Correction of Cooling capacity The operational frequency of compressor The operational frequency of compressor The operational frequency of compressor The operational frequency of compressor Capacity correction factors Correction of Cooling capacity The operational frequency of compressor The operational frequency of compressor The operational frequency of compressor The operational frequency of compressor The operational frequency of compressor COOL operation. Drybulb temperature. Relative humidity % Ambient humidity % Ambient humidity % Ambient humidity % Outdoor unit current Ambient humidity % Ambient humidity % Ambient

humidity%. HEAT operation Indoor. Outdoor Outdoor unit current PERFORMANCE DATA COOL operation at Rated frequency SHC Sensible heat capacity kW. SHF Sensible heat factor. INPUT Total power input WWB Wetbulb temperature. OBH4891.qxp PERFORMANCE DATA COOL operation at Rated frequency SHF Sensible heat factor. SHC Sensible heat capacity kW INPUT Total power input WWB Wetbulb temperature. OBH4891.qxp PERFORMANCE DATA COOL operation at Rated frequency SHC Sensible heat capacity kW. OBH4891.qxp PERFORMANCE DATA COOL operation at Rated frequency SHC Sensible heat capacity kW INPUT Total power input WWB Wetbulb temperature. OBH4891.qxp PERFORMANCE DATA HEAT operation at Rated frequency Heating..... ON. Cooling..... OFF. Dry..... OFF. NOTE The 4way valve reverses for 5 seconds right before startup of the compressor. Compressor Outdoor fan ON Sensor. Purpose. Discharge temperature thermistor. Protection. Compressor. Indoor coil temperature thermistor Cooling Coil frost prevention. Heating High pressure protection. Defrost thermistor. Cooling High pressure protection. Heating Defrosting. Fin temperature thermistor. Ambient temperature thermistor. Cooling Low outside temperature operation. Heating Defrosting Heater. Outdoor heat exchanger temperature thermistor Low outside temperature operation Outdoor Indoor Defrost OBH4891.

qxp Defrost finish temperature . Jumper wire The preheat control prevents this interference. DO NOT pull the lead wires. Housing point. Lead wiring To make sure, check how many times the abnormality indication is flashing on and off before starting service work. Outline of the function. This air conditioner can memorize the abnormal condition which has occurred once. Even though LED indication listed on the troubleshooting check table 113. disappears, the memorized failure details This mode is very useful when the unit needs to be repaired for the abnormality which doesn't recur. Operational procedure. The cause of abnormality cannot be found because the abnormality doesn't recur. Setting up the failure mode recall function. Turn ON the power supply. And release the other two buttons after all LCD in operation display section of the W1. Regardless of normal or abnormal condition, a short No Blinks Either indoor or outdoor unit is abnormal. Beep is emitted at the same timing Indoor unit is normal. But the outdoor unit might be abnormal because there are some Confirm if outdoor unit is abnormal according to the detailed outdoor Yes Before blinking, does POWER lamp stay ON Stays ON for 3 seconds without beep. The outdoor unit is abnormal. Yes. No. The indoor unit is abnormal. Check the blinking pattern, and confirm the abnormal point with the indoor unit Make sure to check at least two consecutive blinking cycles. W2. Check the blinking pattern, and confirm the abnormal point with the Make sure to check at least two consecutive blinking cycles. W3. Releasing the failure mode recall function. Release the failure mode recall function by the following procedures. Turn OFF the power supply and turn it ON again. Press RESET button of the remote controller. Repair the defective parts. Deleting the memorized abnormal condition NOTE 1. Make sure to release the failure mode recall function once it's set up, otherwise the unit cannot operate properly. W2.

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Blinking pattern when the indoor unit is abnormal. Blinking at 0.5/2.5 second OFF second interval. Blinking at 0.5/2.5 second OFF second interval Repeated cycle. Beeps. Repeated cycle. W3. Blinking pattern when the outdoor unit is abnormal. Blinking at 0.5/2.5 second OFF Beeps. Repeated cycle Blinking at 0.5 second interval Repeated cycle. No beep. Repeated cycle Repeated cycle. OBH4891.qxp Operational procedure. The outdoor unit might be abnormal. Confirm if outdoor unit is abnormal according to the following procedures. Confirm that the remote controller is in the failure mode recall With the remote controller headed towards the indoor unit, press TOO COOL or TOO WARM button to adjust the set temperature to 25. W1. Does POWER lamp on the indoor unit blink at the Blinks The outdoor unit is abnormal. Beep is emitted at the same W1. Regardless of normal or

abnormal condition, No The outdoor unit is abnormal. Check the blinking pattern, and confirm the abnormal point with the Make sure to check at least two consecutive blinking cycles. W2. The outdoor unit is normal. Release the failure mode recall function according Repair the defective parts. Deleting the memorized abnormal condition NOTE 1. Make sure to release the failure mode recall function once its set up, otherwise the unit cannot operate properly. W2. Blinking pattern when outdoor unit is abnormal Blinking at 0.5second interval Blinking at 0.5second interval Repeated cycle. Beeps Repeated cycle. OBH4891.qxp POWER lamp Abnormal point. LED indication None Normal Condition. Overcurrent protection stop is Correspondence Discharge temperature thermistor 1time flash every Fin temperature thermistor P.C. board temperature thermistor 4time flash Ambient temperature thermistor 2time flash Overcurrent Thermistor shorts or opens during Outdoor fan motor Outdoor fan has stopped 3 times Compressor synchronous Waveform of compressor current is Discharge temperature Compressor can restart if discharge High pressure.

Temperature indoor coil thermistor Temperature of fin temperature Nonvolatile memory data Discharge temperature Nonvolatile memory data cannot be Temperature of discharge temperature DC voltage Each phase current of compressor 9time flash Overcurrent Stop valve Large current flows into intelligent DC voltage of inverter cannot be Each phase current of compressor Large current flows into intelligent The open phase operation of The interphase short out occurs in the The compressor winding shorts out. NOTE Blinking patterns of this mode differ from the ones of Troubleshooting check table 113.. OBH4891.qxp No. Symptom Correspondence. Condition. Overcurrent protection stop is continuously performed 3 times Discharge temperature thermistor, fin temperature thermistor, Nonvolatile memory data cannot be read properly. Replace inverter P.C. board. Serial signal The communication fails between the indoor and outdoor unit Closed valve is detected by compressor current. Outdoor unit is defective. Overcurrent Large current flows into intelligent power module, or Discharge Temperature of discharge temperature thermistor exceeds Compressor can restart if discharge Fin temperature Temperature of fin temperature thermistor on the heat sink High pressure Indoor coil thermistor exceeds 70 in HEAT mode. Defrost thermistor exceeds 70 in COOL mode. Compressor The waveform of compressor current is distorted. Outdoor fan motor Outdoor fan has stopped 3 times in a row within 30 seconds P.C. board. Each phase Each phase current of compressor cannot be detected DC voltage DC voltage of inverter cannot be detected normally. Frequency drop by Current from power outlet reaches the protection current, and Frequency drop by Frequency drop by Frequency drop by Low discharge PAM protection Amplitude. Modulation Inverter check Temperature of indoor coil thermistor exceeds 55 in HEAT Indoor coil thermistor reads 8 or less in COOL mode, The overcurrent flows into IGBT Insulated Gate Bipolar. This is not malfunction.

The connector of compressor is disconnected, inverter check. Check if the connector of the Inverter P.C. board Parts side. NOTE 1. The location of LED is illustrated at the right figure. Refer to 116.1. The flashing frequency shows the number of times the LED blinks after every 2.5second OFF. The unit is normal, but check the OBH4891.qxp Check method and criterion. Defrost thermistor Ambient temperature Figure. Outdoor heat exchanger Measure the resistance with a tester. Before measurement, hold the thermistor with your hands to warm it up. Fin temperature Measure the resistance between the terminals with a tester. Normal. Compressor MC. Outdoor fan motor MFC Color of the lead wire. Normal Normal. Measure the resistance with a tester. Defrost heater H Normal. Color of the lead wire OBH4891.qxp POWER lamp flashes 5times. Outdoor unit does not operate. Disconnect the connector CN61 Check the voltage Are the voltages See 115.B "Check of open phase". Replace the inverter P.C. board. Check the See 115.C "Check of compressor". B Check of open phase Output voltage 115 V. Start cooling or heating operation by pressing EMERGENCY OPERATION switch on C Check of compressor. Is the compressor normal Replace the compressor. Does the compressor No. Yes OBH4891.qxp D Check of compressor winding NOTE 1. Be sure to zero the ohmmeter before measurement. E Check of compressor

operation time Then measure the Start heating or cooling operation by pressing EMERGENCY OPERATION switch on the indoor unit. Measure the time from the start of compressor to the stop of compressor. For reference Compressor starts. Abnormal Abnormal Abnormal Abnormal Normal. F Check of compressor start failure Does the compressor run for 10 seconds Yes. Check the refrigerant circuit. Check the stop valve. After the compressor is heated with a drier, No. Compressor start failure. Activate preheat control. Heat the compressor with Do not recover refrigerant Heating part POWER lamp flashes 6 time. The thermistors in the outdoor unit are abnormal.

G Check of outdoor thermistors. Disconnect the connector of thermistor in the outdoor P.C. board see below table, Is the thermistor normal Refer to 116.1.. Replace the thermistor except RT64. When RT64 is abnormal, replace the inverter P.C. board. Reconnect the connector of thermistor. Turn ON the power supply and press EMERGENCY OPERATION switch. Does the unit operate for 10 minutes or more without No. Replace the inverter P.C. board. Yes Thermistor. Defrost. Discharge temperature. Fin temperature. Ambient temperature. Outdoor heat exchanger temperature. Board Between CN641 pin3 and pin4. Between CN642 pin1 and pin2. Between CN643 pin1 and pin2. Between CN644 pin1 and pin3. Inverter P.C. board. H Check of R.V. coil Refer to 114. Check if CN721 is connected. Unit operates COOL mode even if it is set to HEAT mode. Disconnect connector CN61 between Turn ON the power supply and press. EMERGENCY OPERATION switch Is there 230 VAC between CN7211 and No. Replace the inverter. P.C. board. Replace the 4way valve. Unit operates HEAT mode even if it is set to COOL mode. EMERGENCY OPERATION switch once Is there 230 VAC between CN7211 and No. Replace the 4way valve. Outdoor fan motor does not operate. I Check of outdoor fan motor. Disconnect CN932 from the inverter P.C. board, Is the outdoor fan motor No. Replace the outdoor fan Yes. Inverter does not operate. J Check of power supply. Disconnect the connector Turn ON power supply and press Yes. Does POWER lamp on the Yes. Is there voltage No. Check the electric No. Is there voltage 230 VAC P.C. board light up or No. Replace the indoor P.C. board. P.C. board. If light up, ok. If flash, refer to K Check of LEV Expansion valve. Turn ON the power supply. And release the other two buttons after all LCD W1. Regardless of normal or abnormal condition, Expansion valve operates in Do you hear the expansion. Do you feel the expansion Yes Is LEV properly fixed to the No. Properly fix the LEV to the Yes. Does the resistance of LEV No. Replace the LEV.

Measure each voltage between connector pins NOTE Measure the voltage by an analog tester. NOTE After check of LEV, do the undermentioned operations. Replace the inverter P.C. board. OBH4892.qxp Outdoor fan motor does not operate, or stops immediately after starting up. L Check of inverter P.C. board. Check the outdoor fan motor. Is the fuse F901 blown on Yes. Check the connection of the connector If the connection is poor, make it correct. Inverter P.C. board Does the LED flash 10 time Check the corresponding parts Yes Replace the inverter P.C. board. Indoor unit does not operate. Outdoor unit doesn't operate. M How to check miswiring and serial signal error when outdoor unit does not work. Turn OFF the power supply. Is there rated voltage in Check the power No. Turn ON the power supply. Is there rated voltage between No. Press EMERGENCY OPERATION switch once. Does AREAL lamp light up Yes. Is serial signal error indicated 6 minutes later Is there any miswiring, Yes. Correct them. No B connecting wire is not miswiring. Shortcircuit outdoor terminal block S2 and Does the LED on the inverter P.C. board Yes Is serial signal Yes No Turn OFF the power supply. Remove the shortcircuit between Turn ON the power supply. Is there amplitude of 10 to 20 VDC W1. Miswiring may damage indoor electronic control. P.C. board during the operation. Be sure to confirm the wiring is correct before the W3. Be sure to check this within 3 minutes after turning.