



OPERATING MANUAL  
RC-DM2  
REMOTE CONTROL COMBINER

**SAFETY PRECAUTIONS**

**CAUTION:** The unit must be grounded. Failure to ground the unit could expose the user to dangerous electric shock.

**CAUTION:** There are no user serviceable parts inside. If malfunction occurs, do not attempt service yourself. Consult the troubleshooting section of this manual and contact Juice Goose.

**WARNING:** Do not expose the RC-DM2 to rain or moisture, doing so could create a fire or shock hazard.

**DISCLAIMER:** Juice Goose shall under no circumstances be held responsible for any loss, damage, or injury resulting directly or indirectly from the use of the RC-DM2 in a manner inconsistent with safe operating procedures and/or with this documentation. The user should determine prior to use if the RC-DM2 is adequate, suitable or safe for the application intended. Since individual applications can be subject to extreme variation, Juice Goose makes no representation or guarantee as to the suitability of the RC-DM2 for any specific application.

<b>SPECIFICATIONS</b>	
Rack Space.....	One
Dimensions.....	19"W x 1.75"H x 5"D
Weight.....	6 lbs
Input Voltage.....	120 VAC, 60Hz
Signal Line Connections.....	6 wire, RJ12

## OPERATION

The RC-DM2 is a totally automatic accessory which allows control and monitoring of a CQ system from two separate remote control terminals. The RC-DM2 will activate one of two Juice Goose RC-5 remote control terminals depending on which terminal is being used. The last remote control used is the active one. With the RC-DM2 and two RC-5s and audio system can be controlled and monitored from two different locations.

The RC-DM2 is a single rack space device which features two control single input ports and one signal output port. The inputs will accommodate cables leading to RC-5 remote control terminals, Juice Goose CQ Series sequence devices or single pole, double throw switches. The RC-DM2 output is for direct connection to a CQ Series power sequence device or to one of the inputs on another RC-DM2.

The RC-DM2 monitors the status from two switches or remote control terminals attached to it. When a switch position on one unit changes, the RC-DM2 will automatically relay that command changes (i.e. sequence up or sequence down) through its output port to the CQ power sequence system.

After the RC-DM2 is installed and the signal input and output connections are made no additional operation is necessary. The RC-DM2 will perform automatically to select the most recent operational command from one of two CQ signal sources and will relay that signal through its output signal port.

In the event of a brief (less than approximately 1.5 seconds) interruption of power to the RC-DM2, the operational signal output of the unit will be maintained in the state existing prior to the interruption. After interruption of greater duration, the RC-DM2 will automatically revert to a "Pause" signal output, neither sequencing up nor down the CQ system. If a longer term power interruption has affected the RC-DM2 and the connected CQ units the system will require reactivation via the RC5 terminals or other switch device.

## SEQUENCE SIGNAL INPUT AND OUTPUT

There are three female, six wire RJ12 receptacles on the back of the RC-DM2 chassis. Two receptacles are marked for signal input from remote control terminals. One is marked for output to a CQ Series power sequencer or another RC-DM2.

### SEQUENCE SIGNAL LINE CONNECTIONS

Sequence signal communication for the RC-DM2 is accomplished by way of standard 6 wire modular phone cable (RJ-12, connectors and appropriate crimping tools should be readily available at local electrical or electronic supply outlets. Connection of the modular connector to the signal wire can be accomplished with AMP Modular Crimper Model #1-231652-8, or equivalent. If desired, signal cable can be purchased directly from Juice Goose at specified lengths for a nominal charge.

To assemble CQ signal cable: using the proper tools cut the cable to the desired length making sure the ends are cut straight, not diagonally. Strip the outer insulation from the cable exposing approximately 1/4" of the colored wire strands inside the cable. Be careful not to remove or break the colored insulation on the inner conductors.

The exposed wires should then be inserted into the connector so that each of the 6 separate wires fits into an individual terminal position in the connector, is flush with the tip of the plug and touches the gold connector.

**NOTE: Orientation of the wire colors in the cable and connectors conforms with standards for telephone line connection. The orientation should be the same for the connectors at both ends of the cable when they are viewed end to end with the spring clips at the top. It is best to insert the cable into the first connector so that the black wire is on the left. The second connector should be attached so the black wire is on the right when viewed from the same perspective as the first.**

The connector should be crimped to hold the cable firmly to the connector. Once the cable has been attached to the modular connectors, the cable may join the CQ Series units or RC remote accessories.

There is no known distance limit for connecting CQ units by means of this cable system. The CQ Series sequencing signal is not sensitive to voltage changes. It will not cause interference with other signal cable nearby.

## IN CASE OF MALFUNCTION

The Juice Goose RC-DM2 is ruggedly constructed and contains high quality components to give years of performance. Should there be a problem, the following checklist is provided as a diagnostic aid.

### SYMPTOMS AND SOLUTIONS

1. One or more CQ units attached to the RC-DM2 will not operate properly.
  - a. Is the CQ signal cable properly attached between the CQ units? If an RC-5 is being used, check the "System OK" indicator when the key switch is in the "Pause" position.
  - b. Check the breaker on the specific CQ unit in question.
  - c. Refer to the CQ Series Owners Manual.
  
2. If a Sequence Up or Sequence Down is interrupted while in process by a general power failure, reset the RC5 or CQ device that initiated the sequence command to begin the sequence process again.

If the problem cannot be remedied, if the encountered problem does not appear on this list, or particularly if any evidence of severe malfunction is observed, disconnect the RC-DM2 from your system and contact your dealer/contractor or Juice Goose.

### REPAIR

Should your RC-DM2 require repair, contact Juice Goose for assistance and a Return Authorization ("RA") Number. Please note that no returns will be accepted without this authorization number.

## CONTACT JUICE GOOSE AT

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