

JUICE GOOSE™

RT-15 Remote Turn-On Turn-Off Power Center



OWNER'S MANUAL

OCTOBER 2008

**RT-15
REMOTE TURN-ON & TURN-OFF
POWER CENTER**

The RT-15 provides a convenient means to remote control a rack mounted power distribution center. This unit allows switching on and off from the front panel switch or a remote location. Features include fire alarm triggered off, contact closure output and optional AC line conditioning.

SAFETY PRECAUTIONS

The RT-15 is designed to operate on 120 volts, 60 hertz. Operation with any voltage or frequency other than that can damage the equipment and create an unsafe situation.

CAUTION #1: The RT-15 must be grounded. If a power extension cord is required, use a properly insulated and grounded cord. Failure to ground the device could expose user to dangerous electric shock.

CAUTION #2: The RT-15 should be installed and used with only appropriate mounting hardware in a manner described in this document.

CAUTION #3: Do not expose the RT-15 to moisture or salty air. Doing so could cause significant damage and create an unsafe condition.

CAUTION #4: Be sure the RT-15 is disconnected from main power before opening the chassis to make wiring changes per instructions in this manual.

DISCLAIMER

Juice Goose shall under no circumstances be held responsible for any losses, damage, or injury resulting directly or indirectly from the use of the RT-15 in a manner contrary with accepted safe operating methods or any instructions contained in this document. The user should determine prior to use whether this product is adequate, suitable and 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 RT-15 for any generally described application.

**RT-15
DETAIL SPECIFICATIONS**

CHASSIS.....16 Gauge Steel with 11 Gauge Brackets

DIMENSIONS (inches).....1.75H x 19W x 7D

WEIGHT (lbs).....15.0

CIRCUIT BREAKER.....Back Panel, 15A Thermal

POWER INPUT.....7 Foot, 14/3 SJTW with NEMA 5/15P

VOLTAGE INPUT.....120 VAC at 60 Hz

FRONT PANEL INDICATOR LED

Power On.....Green

External Fault (RX Option Only).....Red

Power Protection OK (RX Option Only).....Green

POWER OUTPUT RECEPTACLES

Switched.....Six NEMA 5/15R

Unswitched.....Two NEMA 5/15R

POWER LINE FILTRATION - RX SERIES (Optional)

Transient Energy Absorbtion.....1,020 Joules

Maximum Applied Current.....3,000 Amps @ 6,000 Volts

Maximum Let Through Surge.....10 Volts (Line to Neutral)

AC Line Noise Filtration.....<60 dB L-N, <80 dB N-G

REMOTE CONTROL CONTACTS - INPUT AND OUTPUT

Two Position Phillips Screw terminals

Maximum Current Rating.....15 Amps

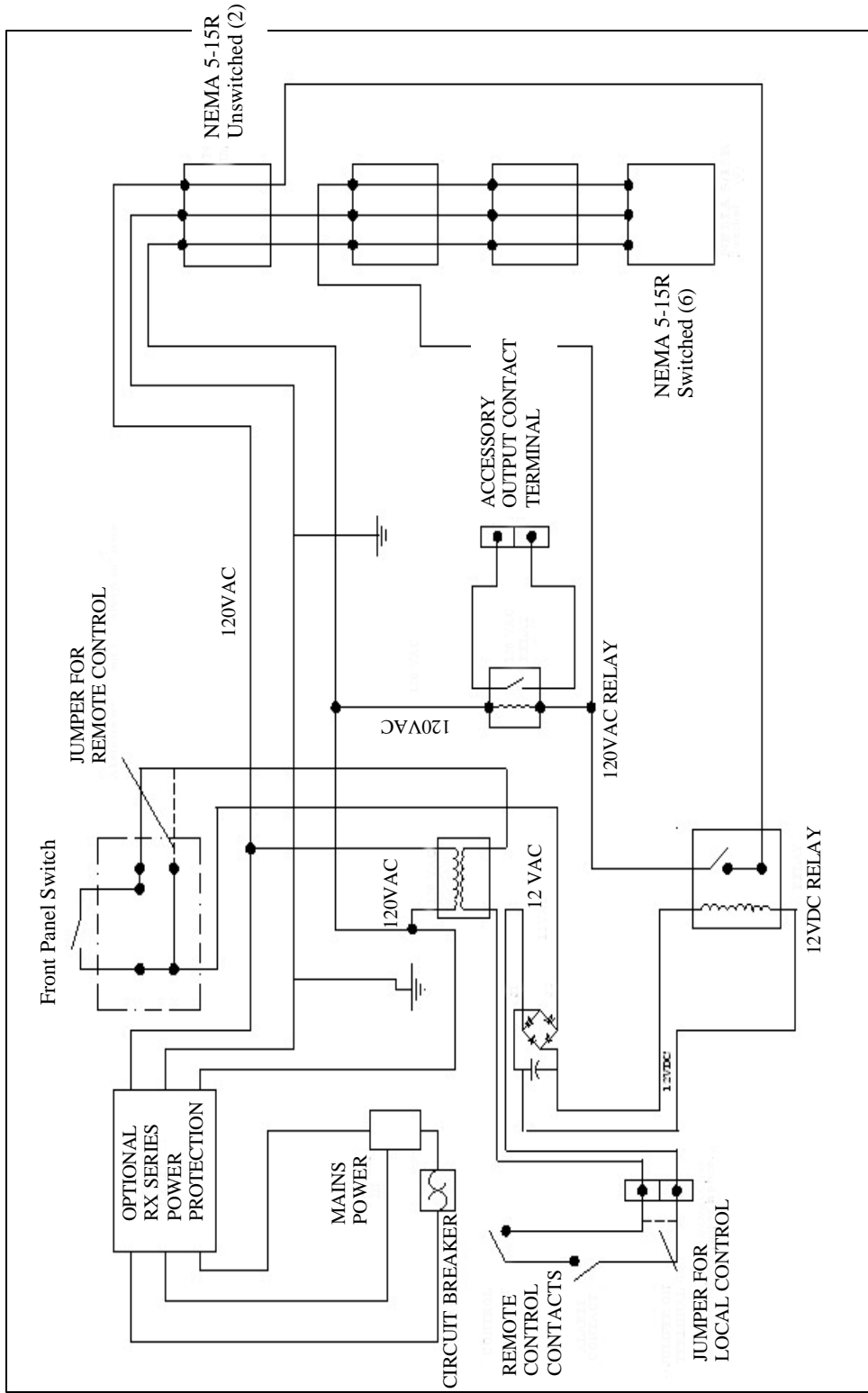
Wire Size.....24 to 12 AWG

OUTPUT RELAY CONTACT RATING (Maximum)

10 Amps @ 380 VAC or 125 VDC

INPUT RELAY COIL RATING

83 mA, 144 Ohms



GENERAL DESCRIPTION

The Juice Goose RT-15 is a 15 amp, rack mounted power distribution module that can be turned on and off locally and by way of remote contact closure. It also features a dry contact closure on power activation as well as optional, high performance AC power filtration and protection.

The device is intended for application where a) only a single remote circuit needs to be controlled, b) emergency alarms systems require an automatic turn on or turn off and/or c) an output contact closure is required to trigger electronic equipment that may be powered but is operating in a stand-by mode.

CHASSIS FRONT FEATURES

Power Switch - As set up at the factory, the power switch on the front controls the turn on and turn off of the RT-15. In this configuration the internal low voltage switch lead is connected to the "Switch" position on the RT-15 circuit board and a wire jumper is attached across the "Input" terminals on the back of the chassis. The switch will function **ONLY** in this configuration.

Power On LED - This light will be illuminated green when the RT-15 has been turned on.

External Fault

(Only with RX Series Line Conditioning Option) - This light will be illuminated red in the event of a wiring fault outside the RT-15. Such faults include open ground, faulty neutral connection and power line voltage in excess of 150 VAC. The RT-15 with optional line conditioning will not turn on under these fault conditions.

Protection OK

(Only with RX Series Line Conditioning Option) - This light will illuminate green when the RT-15 is turned on and there are no line faults. In this condition the RT-15 will be providing AC line surge protection and noise filtration.

AC Power Receptacle - Electric power is available from this outlet whenever the RT-15 is plugged in. (See External Fault)

CHASSIS BACK FEATURES

AC Power Cord - Insulated 14 AWG power cord with 15 amp (NEMA 5-15P) plug

Circuit Breaker - 15 amp Thermal

Switched Receptacles (6) - These NEMA 5-15R duplex receptacles are turned on and off with the local or remote control of the RT-15

Unswitched AC Receptacle - Electric power is available from this outlet whenever the RT-15 is plugged in. (See External Fault)

Remote Control Terminals - Two position terminals allow dry contact closure remote activation and contact closure output.

SET-UP & INSTALLATION

LOCAL CONTROL

The RT-15 is configured at the factory to allow power turn on and off control with the switch on the front of the unit. This local control is possible because of two default set up features. First, there is a factory installed jumper across the remote control "Input" terminal on the back of the chassis. Second, inside the chassis a low voltage lead is attached to the RT-15 circuit board in a position labeled, "SWITCHED".

REMOTE CONTROL

For remote activation the low voltage lead on the RT-15 board must be moved from the "SWITCHED" to the "ON" position. (Failure to make this change will allow the switch on the front of the chassis to turn the RT-15 off when it otherwise would be on via remote control.)

Be sure the RT-15 is unplugged before opening the chassis for any reason. To remove the chassis top remove the three screws from each side of the chassis that hold the chassis top in place. Carefully pull the chassis top up from the main chassis assembly. Move the wire connected to the SWITCHED position (J8) on the circuit board to the ON position (J6). This will disconnect the switch from the power control circuit and directly wire that portion of the circuit. Replace the chassis top and secure with the six screws.

Remove the factory installed jumper across the REMOTE INPUT terminal. This terminal should then be connected to a latching switch at the desired remote location. This remote switch should provide only a dry contact closure, without voltage.

The RT-15 contains a 12VDC power supply inside the chassis to provide coil latching power for the control relay. No external power supplies are needed other than any required to operate remote control or alarm contacts.

In this configuration the remote contact closure will cause the RT-15 to turn on. Opening this contact will cause the RT-15 to turn off. (NOTE: The Unswitched outlets on the front and back will be live whenever the RT-15 is plugged in and will NOT turn off with either the local or remote switch.)

FIRE ALARM SHUTDOWN

Should it be desired that the RT-15 be forced off in the event of a fire or other similar alarm, in either a local or remote control configuration, the INPUT contact terminal should be connected to a relay that is held closed in non-alarm conditions. When this contact opens the RT-15 will turn off regardless of the position of either the local or remote switch.

ACCESSORY CONTACT OUTPUT

A second terminal on the back of the RT-15 chassis provides a dry contact closure (i.e. no voltage) when the unit is turned on. This terminal is attached to a normally open relay inside the chassis. It can be used to activate powered equipment which may be in "stand-by" mode. It can also be used to turn on another RT-15.

OPTIONAL POWER CONDITIONING

As an optional feature, the RT-15 may contain the Juice Goose RX Series Hybrid AC Filter. This protection circuit provides 60dB to 80dB of line noise reduction in addition to AC surge protection on both normal (line — neutral) and common (neutral — ground) modes. Surge protection reduces strikes of up to 6,000 volts to no more than 10 volts. RX Series protection also provides over voltage shutdown and protection against wiring faults.

The front of the RT-15 chassis contains one status light (LED) on models that do not include the RX Series protection. Models with the protection circuit have three status lights.

TROUBLE SHOOTING

The RT-15 is ruggedly constructed from high quality components to give years of dependable power for your equipment. In the unlikely event of poor performance, however, the following checklist is included to aid diagnosing a problem.

UNIT WILL NOT TURN ON

- For local operation: Check that the jumper on the Input terminal is in place. Also, unplug the RT-15 and remove the top. Check that the low voltage lead is connected to either the Switch or the On positions on the RT-15 circuit board. Replace the top before plugging in.

- For remote control: Check that the low voltage lead is in the On position on the RT-15 circuit board. If this lead is in the Switch position the switch on the front of the RT-15 chassis can turn the unit off.

- Only for models with the RX Series protection circuit: Check the indicator lights on the front of the chassis. If the External Fault light is red this indicates either ground or neutral fault or excessive line voltage. The RT-15 will not turn on under these circumstances. Unplug the unit and consult a professional regarding the facility's wiring problems.

- Check that the unit is plugged in and turned on.

- Check the circuit breaker on the back. In cases of malfunction or current overload the circuit breaker will open. After a brief period, the circuit breaker can be reset by pushing in the breaker button. If this problem repeats check that the current requirement of the equipment plugged into the 120 VAC outlets is not greater than 15 amps.

SERVICE

Should your unit require service, contact Juice Goose to receive a service authorization number. This number will allow us to track your returned unit. Please note that no returns will be accepted without such a number.

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