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## WIRING AND PROGRAMMING FOR THE VERBATIM REMOTE SUPERVISORY CONTROL (RSC) OPTION

This option allows you to turn connected equipment on and off from any remote Touch Tone telephone, or from a non-Touch Tone telephone with the use of a portable tone generator. Option VRSC-4 provides 4 outputs; VRSC-8 provides 8 outputs. The unit's voice guides and confirms your operations. Advanced features such as programmable length momentary activations are included. Control operations may also be performed from the unit's keyboard.

Connections are normally made by means of optically isolated solid state relays housed in a separate Output Relay Enclosure which requires its own 120 VAC power connection. In some situations, the user may choose to make connections directly to the logic level outputs within the main unit.

### **MOUNTING AND WIRING CONNECTIONS :**

- If you are using the separate Output Relay Enclosure normally supplied with this option, mount the enclosure within 3 feet of the VERBATIM autodialer, and make your output connections to the left hand row of terminal strip points within the separate enclosure, as shown in the diagram of the VRSC Output Relay Enclosure.
- Be sure that the correct type of plug-in Opto 22 relays are in place. If you are using DC output relays, follow the +/- polarity note on the diagram on the RSC enclosure. The available types are:

OAC5	12 to 140 VAC, 2 amps
OAC5A	24 to 280 VAC, 2 amps
OAC5A5	120/240 volt AC, Normally Closed
ODC5	5 to 60 VDC, 2 amps
ODC5A	5 to 200 VDC, 2 amps
ODC5R	Reed relay dry contact output, 10VA (100 VDC max, 0.5 amp max)

Unless ordered otherwise, type OAC5 is normally provided from the factory.

- Connect 120 VAC power as shown on this same diagram.
- Route modular “Cable A” through one of the entrance holes on the bottom of the autodialer, and plug it into J301 (the righthand jack on the VCP circuit card; see diagram). The 8-output VRSC-8 option also includes a second modular “Cable B”; connect this to the adjacent jack J302 on the VCP circuit card.
- Avoid routing these cables alongside power wiring, and route them so that the front panel circuit board does not pinch them when the door is closed.

**OPTIONAL DIRECT CONNECTION WITHOUT USE OF OUTPUT RELAY BOX:**

- The outputs on the VCP circuit card are NPN transistor open collectors capable of switching up to 12 volts DC at up to 500 ma, and thus these outputs may in some cases be connected directly to logic inputs of logic controllers, etc, although external pullup resistors may be required. Consult Raco for details.
- The color codes for VRSC cables ‘A’ and ‘B’ are:

CABLE “A”

Common Return	Black
Output # 1	Red
Output # 2	Green
Output # 3	Yellow
Output # 4	Blue

CABLE “B”

Output # 5	Red
Output # 6	Green
Output # 7	Blue
Output # 8	Yellow

**REMOTE SUPERVISORY CONTROL OPERATION:**

- To check the on/off status of output # N, use program code  
     9 5 N ENTER Where N is a 2 DIGIT output number (e.g. 01 for output # 1)
- To turn output # N ON, use program code  
     9 5 N 1 ENTER
- To turn output # N OFF, use program code  
     9 5 N 0 ENTER

- To turn output # N ON for a specific number of seconds, use code  

9 5 N 2 XXXXX ENTER where XXXXX is the desired number of seconds,  
from 1 to 99999
- To turn output # N OFF for a specific number of seconds, use code  

9 5 N 3 XXXXX ENTER
- To pre-establish a pulse time interval in seconds for a given output N (2 digits), use code  

9 5 N 9 XXXXX ENTER where XXXXX is 1 to 99999 seconds
- Alternatively, to pre-establish a pulse time interval in minutes, for individual output N (2 digits), use code  

9 5 N 8 XXXX ENTER where XXXX is 1 to 1666 minutes.
- Then you may use code 9 5 N 2 (or 3) without need to enter the digits. The unit will use the pre-stored value for that output's pulse length.
- To hear a report of the on/off status of ALL outputs in one operation, use program code  

9 5 0 0 ENTER
- To turn ALL outputs OFF in one operation, use code  

9 5 0 0 0 ENTER
- To turn ALL outputs ON in one operation, use code  

9 5 0 0 1 ENTER
- To pre-establish a pulse time interval for ALL outputs in one operation, use code  

9 5 0 0 8 XXXX (XXXX = 1 to 1666 minutes)

or

9 5 0 0 9 XXXXX (XXXXXX = 1 to 99999 seconds)

**NOTES:**

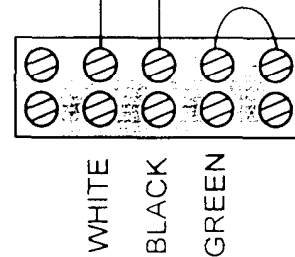
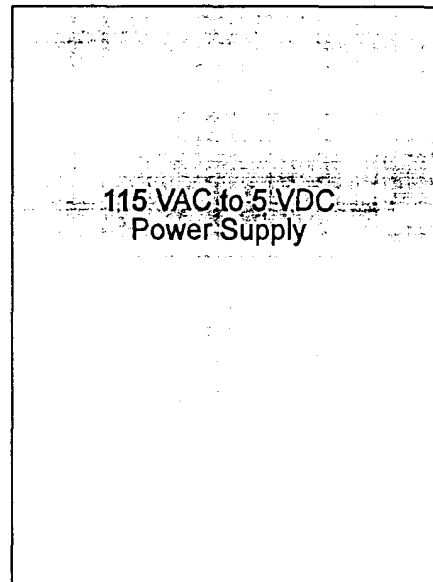
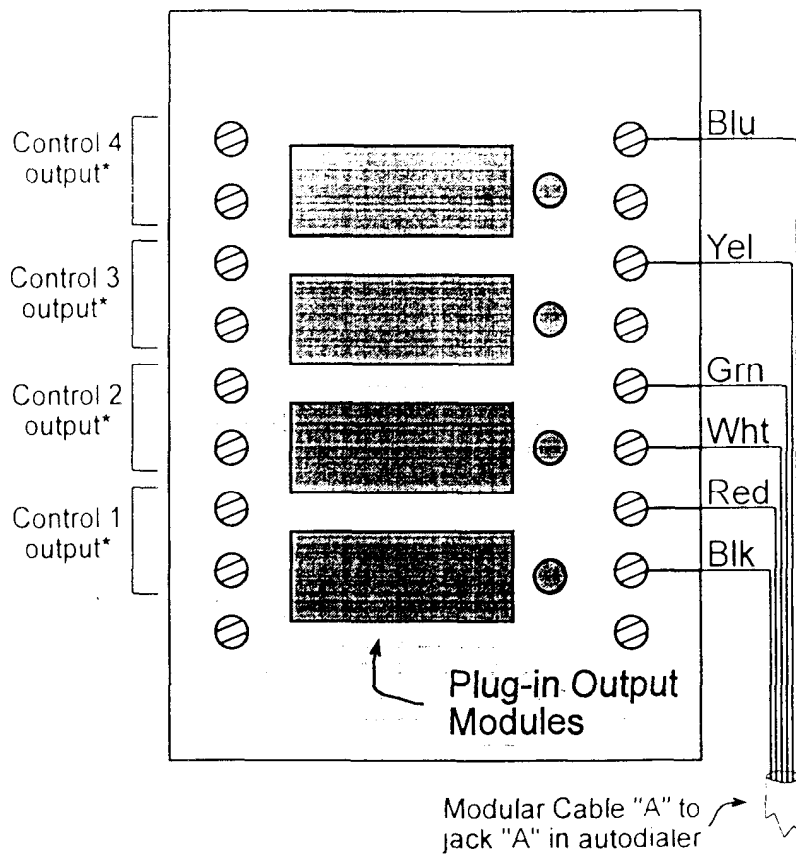
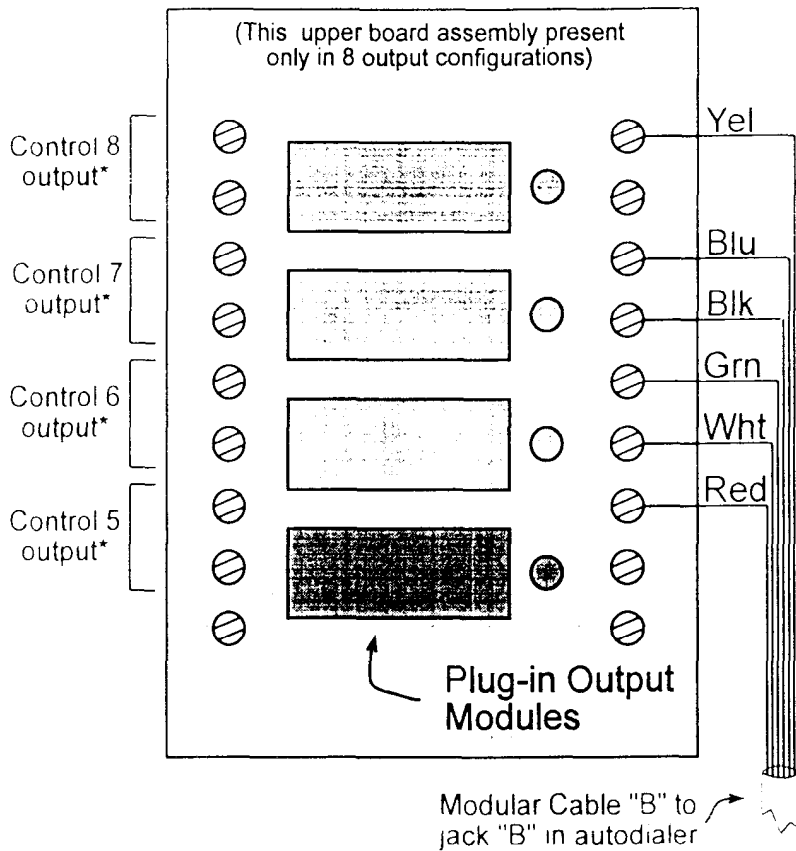
- Because the devices under control would not normally be operational during AC power failures, the Output Relay Enclosure does not include battery backup for the output relays during AC power failures. Upon restoration of AC power, the outputs will return to the state dictated by the autodialer.
- When the autodialer itself is first turned on, and at certain other times when a microprocessor reset occurs, all the outputs will be turned ON for a fraction of a second, before assuming the state dictated by the autodialer. In some installations this could cause problems, and in such cases external time delay relays or other measures may be required, to prevent unwanted momentary activation of controlled devices.
- If you have questions, call Raco Customer Support at 800-449-4539. The Customer Support Department will be available from 8:00am to 4:30pm PST, Monday through Friday (excluding holidays).

# RSC Supervisory Remote Control Output Box

## OUTPUT MODULE TYPES:

OAC5	12 to 140 VAC, 2 amps
OAC5A	24 to 280 VAC, 2 amps
ODC5	5 to 60 VDC, 2 amps
ODC5A	5 to 200 VDC, 0.67 amps
ORR5	Reed Relay Output

\* If DC output modules are used, the lower terminal is the positive terminal, for each control output.



Connect 120VAC here