

505 / 505E Configuration Upload and Download

with the Woodward Control Assistant Program

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The Woodward Control Assistant program can be used with new style 505/505E controls to upload and download program configurations. With the Control Assistant program, once a 505/505E control has been programmed, its configuration can be saved on a computer, then if required uploaded back into the same control for backup purposes, or to other 505/505E controls as needed.

The Control Assistant program's Maintenance Utility allows a user to compare the differences in configurations between two controls, or view what control values have been changed in a control since the last configuration upload.

Requirements:

- New style 505/505E platforms (11"H x 14"W x 4"D [279 x 356 x 102 mm] enclosure size)
- Computer with an RS-232 communications port
- Woodward Control Assistant program installed on computer
- RS-232 Null modem cable (See Figure 1)

To Download and Save a 505/505E's Configuration to a File:

1. Connect an RS-232 based null-modem cable between the computer's "COM" port and the 505's "COM3" port.
2. From the computer's Window Program menu, open the Control Assistant program.
3. From the program's "Option" menu, verify the communications settings are as follows:
 - **General Tab:** –Control: 505
 –Connection: Serial
 - **Serial Tab:** –Port: Com Port Used
 –Baud: 19200
 –Data Bits: 8
 –Parity: None
 –Stop Bits: 1
 - **Network Tab:** –Leave Blank
4. From the program's "Transfer" menu, select the "Receive Tunable List" option. At this point the program will establish communications with the control and download the control's configuration for viewing and/or saving.
5. To save the control's configuration to a file, select the "Save as" option from the program's File menu. When saved, the file will be saved with file extension ".cnf".

To Upload a Program Configuration File into a 505/505E Control:

1. Verify that the 505/505E control is powered-up, and that the turbine is shut down.
2. From the computer's Window Program menu, open the Control Assistant program.
3. Connect an RS-232 based null-modem cable between the computer's "COM" port and the 505's "COM3" port.
4. From the 505/505E control's front service panel:
 - a. Press the "Clear" key twice.
 - b. Press the scroll diamond's down arrow to display "Push < or > for new mode".
 - c. Press one of the scroll diamond's side arrows to display "Push ENTER for SYS_INFO".
 - d. Press the "ENTER" key.

- e. Press one of the scroll diamond's side arrows to display "Download Configuration".
 - f. Press the scroll diamond's down arrow to display "To Load Configuration Enter Password".
 - g. Enter password "1116", then press the "ENTER" key.
 - h. Press the "Yes" key to shutdown the control. At this time the message "Ready for CNF download" is displayed.
5. From the Control Assistant program's "Option" menu, verify the communications settings are as follows:
 - **General Tab:** –Control: 505
–Connection: Serial
 - **Serial Tab:** –Port: Com Port Used
–Baud: 19200
–Data Bits: 8
–Parity: None
–Stop Bits: 1
 - **Network Tab:** –Leave Blank
 6. From the program's "File" menu, select the "Open" option, and select the desired configuration file (*.cnf).
 7. From the program's "Transfer" menu, select the "Send Tunable List" option. At this point the program will establish communications with the control and upload the configuration file into the 505/505E control.
 8. When prompted by the control's front service panel, press the "Clear" key to run the control's Configuration check routine, and enable the control for operation.

Refer to the Control Assistant program's on-line Help for a comprehensive list of the program's capabilities, and step-by-step procedures.

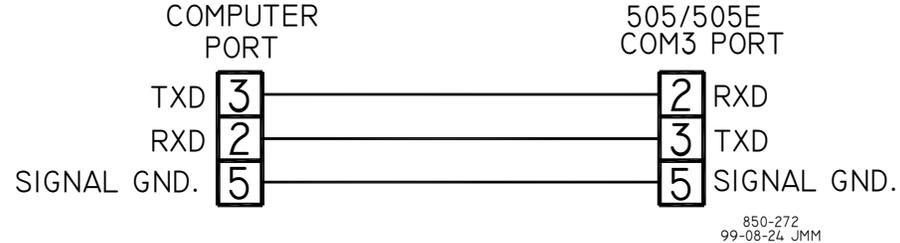


Figure 1. RS-232 Communications Cable

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Please reference publication **26045**.



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