

Application Note 51361 (Revision NEW, 6/2009) Original Instructions

EGCP-3 LS 8406-113 Revision R Software 5418-144 Revision M

Explanation of Software Changes Made for the EGCP-3 LS Control



Read this entire manual and all other publications pertaining to the work to be performed before installing, operating, or servicing this equipment.

Practice all plant and safety instructions and precautions.

Failure to follow instructions can cause personal injury and/or property damage.



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Any unauthorized modifications to or use of this equipment outside its specified mechanical, electrical, or other operating limits may cause personal injury and/or property damage, including damage to the equipment. Any such unauthorized modifications: (i) constitute "misuse" and/or "negligence" within the meaning of the product warranty thereby excluding warranty coverage for any resulting damage, and (ii) invalidate product certifications or listings.



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Revisions—Changes in this publication since the last revision are indicated by a black line alongside the text.

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Warnings and Notices

Important Definitions

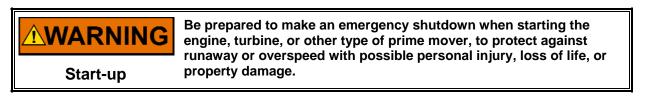


This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

- **DANGER**—Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
- **WARNING**—Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION**—Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE**—Indicates a hazard that could result in property damage only (including damage to the control).
- **IMPORTANT**—Designates an operating tip or maintenance suggestion.

WARNINGThe engine, turbine, or other type of prime mover should be
equipped with an overspeed shutdown device to protect against
runaway or damage to the prime mover with possible personal injury,
loss of life, or property damage.Overspeed /
Overtemperature /
OverpressureThe overspeed shutdown device must be totally independent of the
prime mover control system. An overtemperature or overpressure
shutdown device may also be needed for safety, as appropriate.

WARNING Personal Protective Equipment	 The products described in this publication may present risks that could lead to personal injury, loss of life, or property damage. Always wear the appropriate personal protective equipment (PPE) for the job at hand. Equipment that should be considered includes but is not limited to: Eye Protection Hearing Protection Hard Hat
	 Gloves Safety Boots Respirator Always read the proper Material Safety Data Sheet (MSDS) for any working fluid(s) and comply with recommended safety equipment.



Automotive Applications On- and off-highway Mobile Applications: Unless Woodward's control system totally independent of the prime mover control system that monitors for supervisory control of engine (and takes appropriate action if supervisory control is lost) to protect against loss of engine control with possible personal injury, loss of life, or property damage.

NOTICE

To prevent damage to a control system that uses an alternator or battery-charging device, make sure the charging device is turned off before disconnecting the battery from the system.

Battery Charging Device

Electrostatic Discharge Awareness

NOTICE	Electronic controls contain static-sensitive parts. Observe the following precautions to prevent damage to these parts:
Electrostatic Precautions	 Discharge body static before handling the control (with power to the control turned off, contact a grounded surface and maintain contact while handling the control). Avoid all plastic, vinyl, and Styrofoam (except antistatic versions) around printed circuit boards. Do not touch the components or conductors on a printed circuit board with your hands or with conductive devices. To prevent damage to electronic components caused by improper handling, read and observe the precautions in Woodward manual 82715, Guide for Handling and Protection of Electronic Controls, Printed Circuit Boards, and Modules.

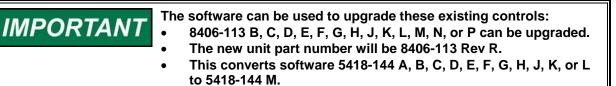
Follow these precautions when working with or near the control.

- 1. Avoid the build-up of static electricity on your body by not wearing clothing made of synthetic materials. Wear cotton or cotton-blend materials as much as possible because these do not store static electric charges as much as synthetics.
- 2. Do not remove the printed circuit board (PCB) from the control cabinet unless absolutely necessary. If you must remove the PCB from the control cabinet, follow these precautions:
 - Do not touch any part of the PCB except the edges.
 - Do not touch the electrical conductors, the connectors, or the components with conductive devices or with your hands.
 - When replacing a PCB, keep the new PCB in the plastic antistatic protective bag it comes in until you are ready to install it. Immediately after removing the old PCB from the control cabinet, place it in the antistatic protective bag.

EGCP-3 LS 8406-113 Revision R Explanation of Software Changes Made for the EGCP-3 LS Control

General

Woodward is releasing application software **5418-144M.SCP** for upgrading existing EGCP-3 controls in the field. This application note describes the changes made in the software and the process to upgrade the software in the control.



Date	Description	Control Revision	Software Revision
9 Dec 2002	EGCP-3 LS is introduced	8406-113 Rev New	5418-144 Rev New
7 Apr 2003	Software changes made	8406-113 Rev C	5418-144 Rev C
3 May 2004	Software changes made	8406-113 Rev D	5418-144 Rev D
28 Jul 2004	Software change and Power Sense Board change	8406-113 Rev E	5418-144 Rev E
29 Sep 2004	Software changes made	8406-113 Rev F	5418-144 Rev F
16 Nov 2004	Software changes made	8406-113 Rev G	5418-144 Rev G
20 Jul 2005	Software changes made	8406-113 Rev H	5418-144 Rev H
11 Oct 2005	Display changed from Green to Blue	8406-113 Rev J	5418-144 Rev H
9 May 2006	Software changes made	8406-113 Rev K	5418-144 Rev J
20 Dec 2006	Power Supply Resistor Change	8406-113 Rev L	5418-144 Rev J
10 Jan 2007	Software changes made	8406-113 Rev M	5418-144 Rev K
5 Nov 2007	Software changes made	8406-113 Rev N	5418-144 Rev L
3 Apr 2008	New protective covers added to PT and CT blocks	8406-113 Rev P	5418-144 Rev L
5 Apr 2009	Software changes made	8406-113 Rev R	5418-144 Rev M

Revision History

Description of Software Changes

- 1. Corrected an issue where the voltage bias output could be changing while the unit was either not running, or running in a manual mode. For systems that include an EGCP-3 MC, while the EGCP-3 MC was synchronizing one or more units that were running on the bus, the voltage bias output of the LS units that were not on the bus were being affected. Now the voltage bias correction signal from the MC unit is only used by the LS units that are running on the bus in the load sharing mode.
- 2. Corrected an issue where the Voltage Raise and Lower pulses were not active when the MSLC was synchronizing a unit on the bus with a closed breaker.

For applications where the EGCP-3 LS, Voltage Bias setpoint is set for Discrete Raise Lower, these voltage output signals did not listen to the EGCP-3 MC synchronizer voltage commands, when there was a single unit running on the bus in the Isoch mode. Now the MC voltage commands will cause the output relays to adjust as necessary.

3. Added a new setpoint to compensate for phase angle errors in the voltage PT's.

Some sites had reported small phase errors were being seen on the EGCP-3 display between the generator and bus PT's. The Phase Angle Offset setpoint in the Synchronizer menu, can now be adjusted to correct these errors.

Compatibility with Existing Controls

The new software, 5418-144 M, will operate with all existing EGCP-3 controls. This change is only needed for applications where an EGCP-3 MC is being used.

Download Instructions

This section provides instructions for downloading the 5418144M.SCP software needed to upgrade the 8406-113.

IMPORTANT

Loading the Application software may change some or all of the Configuration set points. These setpoints should be saved to a file before upgrading the unit.



An unsafe condition could occur with improper use of these software tools. Only trained personnel should have access to these tools.

Requirements

- Nine pin DB9 Null Modem cable.
- Woodward Watch Window Professional Software. This program is available on the Woodward website at <u>www.woodward.com/software</u> for a five day trial. A license can be purchased for extended use.

Instructions

Step 1. Establish a ServLink Connection

To run the Watch Window application, first click on the Start toolbar button in Windows desktop, then Programs, Woodward, Watch Window Professional version, and then click on the ServLink server as shown here.

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When you click once on the lcon, this screen will appear on the desktop. This is the Dialog Screen, where the type of communications you are using will be established prior to operation of the Watch Window software.

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The first action to take inside the ServLink screen is to set up a new network definition file. Click once on File, and then on New as shown. The new network definition window will pop up on the computer screen.

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3 egcp2u3.N	ET		
4 egcp_all3.M	NET		
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, Create a new ne	twork definitio	n file	

This will open up the Network Options screen. This screen allows the user to configure the ServLink connection for serial com port, or modem. When a serial port is selected, the left side menus will be active and the right side menus will be grayed out.

Network Options		×
Use this port Port: Communications Port (COM1)	From this location Location: hotel 9	OK Cancel <u>H</u> elp
In this mode Mode: Point-to-Point At this baud rate Baud Rate: 115200	Using this phone number Country Code: United States of America (1) Area Code: 303 Phone Number: Number Being Dialed:	

Application Note 51361

The "Use This Port" box of this screen is used to select which communication port (COM) or modem will be used to communicate using RS-232 protocol to the control. Clicking on the drop down box will tell the ServLink software to scan the computer and list any communications ports, which are not being used by other applications that may be used for serial communications. If the port that is desired does not appear, most likely it is being used by some other application on the computer. Another port should be selected, or the application that was using the port should be stopped.

The next block down, "In this mode", is used to select either multidrop or point-topoint communications over the serial port. Point-to-point communications assumes that the computer will be communicating with only one control at the other end of the network. Point-to-point communications should be used only when the communications between the computer and the control are made in a direct fashion, (a null modem cable connected directly to the control).

The advantage of using the point-to-point communications mode option is speed. Since the communications are only between the PC and one control, the ServLink software will scan for only one unit on the network. This takes less time than a multidrop communications mode, which scans for multiple controls on the network, regardless of how many units are actually connected to it.

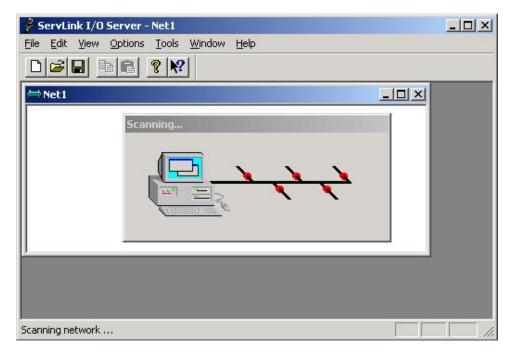
Use the multidrop communications option any time there are two or more controls that require monitoring from the computer on the same network. This will require an RS-422 or RS-485 network configuration. For RS-232 only point-to-point is allowed. When downloading a new software application only one unit can be connected to the computer at a time.

The next box down is the "At this baud rate" box. Different controls will operate at different baud rates. Please see the control manual to determine where the control baud rate is set. For example, EGCP-2 is 9600 (only), 2301 D is 38,400 (selectable), and EGCP-3 is 115,200 (selectable). For the EGCP-3 this setting can be found in the Communications Menu as Port 3 Baud Rate.

The boxes on the right hand side of the ServLink New File setup screen are normally turned "off" when the "Use This Port" box is configured for the COM ports of the computer. These boxes are used when the Modem option is selected in the "Use This Port" box.

EGCP-3 LS Explanation of Software Changes

When all the various communications options are selected in the ServLink screen, press the OK button. ServLink will automatically scan the network for active controls. This may take several minutes, depending on network configuration. Here is what the screen of the computer looks like when it is scanning the network for active controls:



When communications are established with the control network, the scanning screen will change to display that the ServLink software is reading the control information. That screen will look like this:

🖗 ServLink I/O Server - Net1	
Eile Edit View Options Tools Window Help	
⇔Net1	
Reading control information	
Building network definition file	11.

Once communications are established, and the data is read from the control network, the ServLink software will show each control it is communicating on the network by that control's network address. Here is a typical ServLink network definition screen for an EGCP-3.



If your network configuration is constant (neither the number of controls on the network nor the PC attached to the network will change), you may want to save the Network Definition File you have created for ServLink. To do this, click on the File button in the upper left hand window of ServLink. Select "Save As". A dialog window will pop up and ask you to name the new network definition file you have created. Typically, this file will be stored in the directory on the hard drive of the computer ServLink is operating from. The file name given to the network definition file will be given a ".net" extension. Once you have selected a file name, click on the OK button in the dialog box. This saves the network definition file you created.

Once you have created and saved the network definition file for ServLink, all you have to do in the future to run the definition file is open ServLink from the Programs Menu, and select File, and then Open. When Open is selected, a list will appear containing the network definition file you created. Select the desired network definition file, and ServLink will automatically select the necessary communications options defined by the file and establish a communications link with the control network.

Now that ServLink has established a network connection, you may want to "minimize" the ServLink window by clicking on the Minimize button in the upper right hand of the ServLink Window. When you minimize an application, the software continues running, but the window is reduced to a button on the desktop toolbar. You can restore the application window to full size at any time by clicking on the reduced toolbar button for that software with the left mouse button.

IMPORTANT

Terminating ServLink will result in loss of communications with the network. The ServLink Network Definition file will have to be executed again to re-establish this link.

Step 2. Start the Watch Window Software

The Watch Window software adds the ability to monitor data from a computer. It also allows a user to save the control set points to a Tab delimited text file. The text file can then be printed, edited, and transferred into another control.

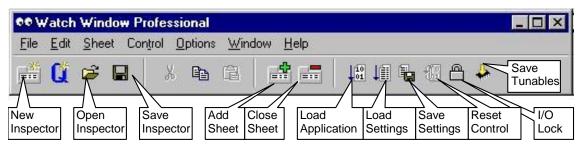
The Watch Window Software will not run unless the computer is communicating with at least one control. Once the ServLink Communication has been established, start the Watch Window program from the Windows toolbar Start button.

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The Watch Window Professional software is comprised of three separate windows, each with a different function.

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The Application Control window (1) is the main window for the software. It is used to manage the Explorer window (2) and the Inspector window (3). A tool bar is provided with icons to Open, close, and save Inspectors, and to upload and download the tunable setpoints.



Step 3. Save the Control Setpoint File

After all of the setpoints have been entered, these settings can be saved to a file using the Watch Window Professional software.



Click on the Save Application Settings icon in the Application Control window. A Windows Explorer box will appear to name the file and select a location for it. Then a status bar will appear updating the file transfer progress.

The format of this file is tab de-limited. Using a program like Microsoft Excel, this setpoint file can be sorted and edited. Two columns will be formed, one with the variable name and the other with the variable value.

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26 P PROC PID.INT GAIN X.IN 2 10	
27 MNS PR.VARS.WRN DO DLY 0.110001	+
28 MNS PR.OVR VLT W.IN 550	+
29 MNS PR.FREQ.WRN DO DLY 0.110001	
30 MESSAGE.RMTFLT 1S.IN REMOTE FAULT 1	
31 L DO CTL.FREQ DB.DB 1	+-
32 LOAD ALMS.LDLIM DLY.IN 5	+
33 IO 3.SER2TMOUT.NO 0	+-
34 IO 3.BUS A.NO 0	+
35 IO 1.SPEED BIAS.NO -9999	+
36 IO 1.DO 03.NO 0	+
37 IO 1.DI 10.NO 0	+
38 GEN PR OVP ERO W IN 65	
Ready	- II

EGCP-3 LS Explanation of Software Changes

This list can be sorted by clicking on the Data menu item; choose sort list by Configuration ID in ascending order. This list will show all of the adjustable variables of the control. There are two categories of variables that are important to the user. Many of these other variables are only needed for things like factory testing of the controls. The Service items and Configure items are the setpoints that would be described in the product manual.

M	icrosoft Excel - cat.CFG		<u>- 🗆 ×</u>
	Eile <u>E</u> dit <u>V</u> iew Insert F <u>o</u> rmat <u>T</u> ools <u>D</u> ata <u>W</u> indow <u>H</u> elp		
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_	A1 = CONFIGURATION ID	1	
	Α	вс	-
1	CONFIGURATION ID	Dflt Config ID	
2	A01 332CPU.A0 01.GAIN	1	
3	A01_332CPU.A0_01.0FFSET	0	
4	A01_332CPU.A0_02.GAIN	1	
	A01_332CPU.A0_02.0FFSET	0	
6	A01_332CPU.A0_03.GAIN	1	
	A01 332CPU.A0 03.0FFSET	0	
	A01 332CPU.A0 04.GAIN	1	
	A01 332CPU.A0 04.0FFSET	0	
	A01_332CPU.CLOCK.SEC_IN	0	
	A01_332CPU.COMM_01.BITS	2	
	A01_332CPU.COMM_01.ECH0	1	
	A01_332CPU.COMM_01.ENDLINE	1	
	A01 332CPU.COMM 01.FLOW	1	
	A01 332CPU.COMM 01.IGNCR	1	
	A01 332CPU.COMM 01.MODE	1	
	A01 332CPU.COMM 01.PARITY	1	
	A01 332CPU.COMM 01.STOP	1	
	A01_332CPU.COMM_02.BITS	2	
	A01 332CPU.COMM 02.ECHO	1	
	A01 332CPU.COMM 02.ENDLINE	1	
22	A01_332CPU.COMM_02.FLOW	1	
	A01 332CPU.COMM 02.IGNCR	1	
	A01 332CPU.COMM 02.MODE	1	
	A01 332CPU.COMM 02.P FLUSH	0	
	A01 332CPU.COMM 02.PARITY	1	
	A01_332CPU.COMM_02.STOP	1	
	A01 332CPU.COMM 03.BITS	2	
	A01 332CPU.COMM 03.ECHO	1	
	A01 332CPU.COMM 03.ENDLINE	1	
	A01_332CPU.COMM_03.FLOW	1	
	A01 332CPU.COMM 03.IGNCR	1	
	A01 332CPU.COMM 03.MODE	1	
	A01 332CPU.COMM 03.PARITY	1	
	A01_332CPU.COMM_03.STOP	1	
	A01_332CPU.PORT1_MUX.SEL_2	0	
37	A01_332CPU RST LD CTRI	1	
38		0	
Rea			

It is also possible to edit this file and transmit the edited settings into a control. When editing this file, only edit the second column of values. Do not change the Configuration ID column. ServLink and Watch Window software will only pass numeric values between the PC and the control. So, many text items such as the alarm setting will be expressed as a number 5, instead of the text Hard Shutdown.

Download the New Application Software

 Click on the Load Application icon in the Application Control window. A Windows Explorer box will appear and prompt the user for the file to load into the control. The 5418144L.SCP file should be selected.

Open		?	×
Look in: 🗀	5418-144 M	- 🖬 🖆 💶	
5418144G			
File <u>n</u> ame:	5418144Mscp	<u>O</u> pen]
Files of <u>type</u> :	Application Script Files (*.scp)	▼ Cancel	

After the Open button is pressed a warning box will appear that tells the user that the control inputs and outputs will be locked during the download. Hit the Yes button to continue. Then a status bar will appear updating the file transfer progress.

👭 Download	×
Download File: C:\Program Files\Woodward\Watch Window Professional\5418144M.scp	
Product ID: SmartCore Control	
Bytes Downloaded: 19520	
Cancel	
Downloading File	

When the download is complete, another warning box will appear that tells the user, the ServLink Network Definition file will no longer be valid.

Informa	ition
٩	The application has changed in the control and the connection may not be valid. The Watch Window will be closed and you may need to create a new Network Definition file in the Server.
	ОК

EGCP-3 LS Explanation of Software Changes

The new software is now loaded in the control. The EGCP-3 should go through a re-boot phase and after about 60 seconds, the screen should show valid data. The software can be verified by going to the password screen of the EGCP-3. On the bottom line of this display the software version is displayed. The software should now be 5418144M.

Step 4. Build a New Network Definition file with ServLink

The next step is to close both the Watch Window Professional application and the ServLink application.

Then re-open the ServLink application and repeat the process of building a Network Definition file that was described earlier in the Step 1 Establish a ServLink Connection section. This section of the procedure should be repeated.

After this new file has been loaded from the EGCP-3, this file can be saved.

Step 5. Download the Previously Saved Application Settings



To load a setpoint file into a control, click on the Load Application Settings icon in the Application Control window. A warning box will appear that tells the user that the control inputs and outputs will be locked during the download. Hit the Yes button to go on.

Next a Windows Explorer box will appear to find the setpoint file that is to be transferred.

Open				? ×
Look <u>i</u> n: 🔁	egcp3	🗢 🔁	r 📰 🕈	
🔊 egcp3 unit 1	CFG			
File <u>n</u> ame:	egcp3 unit 1.CFG		<u>(</u>	<u>D</u> pen
Files of type:	Configuration Files (*.cfg)	•	0	ancel

Then a status bar will appear updating the file transfer progress.

During the transfer some setpoint errors may occur. A message such as this will appear:

Warning	g 💌
	Configuration Error: A.A.CTRL does not exist or the value being loaded is invalid. Continue loading?
	Yes <u>N</u> o Yes to <u>A</u> ll

Application Note 51361

EGCP-3 LS Explanation of Software Changes

These configuration errors are the results of software changes in the control. The variables that were saved in the setpoint file of the previous version either no longer exist or have a different name in the new revision. Most of these are not important, however a few may be. For example the Deadbus Closure setting from the Synchronizer menu as well as the Port 3 Communication items which are no longer adjustable.

Warning	g 🗙
⚠	Configuration Error: SERVICE: F_SYNCHRONIZER.22 DEADBUS CLOSURE does not exist or the value being loaded is invalid. Continue loading?
	Yes <u>N</u> o Yes to <u>A</u> ll

Depending on which revision was originally in the control, there may be several of these variables that can not be found. They can be verified one at a time by clicking the Yes button or all of them can be verified by clicking the Yes to All button. When the transfer is complete click on the Yes button to reset the control. Setpoint files can only be transferred when the unit is shut down.

After the transfer is complete, **verify that the correct values have been entered into the control**. Because the software settings have changed between the revisions some settings may not have been entered correctly. Here are some suggestions for this.

- 1. The Synchronizer gain setting was changed, so if you are upgrading from an earlier revision, the synchronizer gain setting should be increased by a factor of 10 for Rev J and increased by a factor of 5 for Rev H and earlier, to have the same value. i.e. Rev J Sync Gain was 0.024 new setting should be 0.24. Rev E sync gain was 0.024 new setting should be 0.12.
- 2. The Engine Control menu. A new setting was added in Revision J, 20 Gen KW Hours (Ones). So all settings greater than 20 should be verified.
- 3. The Reactive Load Menu. A new setting was added in Revision J, 21 Volt Trim Deadband. So all settings greater than 21 should be verified.
- 4. The Sequencing menu. Two new settings were added in Revision J, 31 LS Tie Sync Freq Gain and 32 LS Tie Sync Volt Gain. So all settings greater than 31 should be verified.

Once the settings have been confirmed the unit should now be ready for operation.

Step 6. Notify Woodward with the Control Serial Number for Record Keeping

We would appreciate to know when a control was upgraded in the field. Woodward keeps a history log of every control that is produced, by the serial number. Please record the serial number/s and send this information in an email from the Woodward website

(www.woodward.com/support/support/techsupport/contact.cfm).

Technical Support for North America/Central America/Caribbean - Microsoft Internet Explorer provided by Woodv	vard <mark>- 🗆 ×</mark>
File Edit View Fevorites Tools Help	18
💠 Back 🔻 🔿 🔻 🙆 😭 🎲 🥝 Search 👔 Favorites 🛞 Media 🧭 🎒 📕 🗐	
Address 🗃 http://www.woodward.com/support/ic/techsupport1.cfm	∂Go Links≫
PROFILE PRODUCTS/SERVICES NEWS INVESTOR INFORMATION CAREERS E-BUSINESS	*
WOODWARD	
Industrial Customer Support Sales Support Product Training Technical Support for North America/Central America/Caribbean To request technical assistance, please fill out this form completely. A Woodward technical support engineer will contact you. Use this form if you are located in North America, Central America, or the Caribbean.	
Company Name Street Address Street Address City, State/Province Postal/ZIP Code 55555	
Country USA Telephone Number Your Name Joe Smith Your E-mail Address Joe@abc.com	
Subject of Engine Controls	
Submit Request Reset Form	tranet

We appreciate your comments about the content of our publications.

Send comments to: icinfo@woodward.com

Please reference publication 51361.



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