

PRODUCT SUPPORT FORM

Class1 excels in providing technical product support. To assist us in diagnosing your application, please perform the following tests, complete this form and fax it to 352-629-2902. Upon receiving this fax, we will review the data and provide you with a recommended course of action. Read and understand this document before performing the required diagnostic tests. The solution to most installation/wiring issues can be realized within minutes.

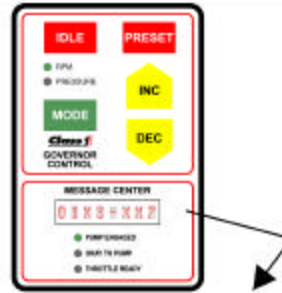
TEST SETUP

The following simple, functional test for the Captain Governor will require approximately 4 minutes. Before the test is performed, please ensure that the apparatus is in the following condition:

- Engine : Running at Idle
- Pump : Not Engaged, no pressure
- Transmission : Neutral
- Park Brake : Set
- Tools Required : Pencil

Once the test mode is entered, the governor will enter a self diagnostic mode and display results on the Message Center of the governor control unit. There will be several user tests that can be performed to either identify a failure or the proper operation of the Class1 Captain Pressure Governor. To exit self test mode, press IDLE and PRESET

NAME _____ PHONE _____ FAX _____
 ENGINE MODEL: CUMMINS CATERPILLAR NAVISTAR DETROIT
 APPARATUS MFG: _____
 TRUCK IS: NEW INSTALLATION IN SERVICE _____ MONTHS



XXXXXXXXXX

POS-0 POS-1 POS-2 POS-3 POS-4 POS-5 POS-6 POS-7

CONN-A	DESCRIPTION
1	SYSTEM POWER
2	SYSTEM GROUND
3	NO WIRE
4	NO WIRE

CONN-B	DESCRIPTION
1	Signal Supply (+5VDC ECM)
2	INTLK: THROTTLE READY (+)
3	HIGH IDLE (+)
4	NO WIRE
5	SENSOR GROUND
6	SENSOR SUPPLY
7	SENSOR SIGNAL
8	CONTROL OUTPUT
9	Signal Ground (ECM)
10	INTLK: PUMP ENGAGED (+)
11	PTO ENABLE INPUT
12	PTO ENABLE OUTPUT

STEP 1: ACTIVATE SELF TEST

Activate the self test by entering this code on the front panel : IDLE-INC-IDLE-INC-IDLE-INC-IDLE-INC. If you mis-enter the code, press the DEC key and then re-enter the code. When the self test mode is activated, the message center will display IDLE REQ and the self test will begin. After a few seconds, the display will indicate type. Either "TYPE=ANA" or "TYPE=PWM" and then the output range will be shown.

Please check TYPE ANA PWM if ANA please enter the voltage range displayed on the message center - RANGE _____ to _____

STEP 2: RELEASE AND THEN SET THE PARK BRAKE

With the vehicle foot brake on, release the park brake, wait a few seconds and then set the park brake once again.

Please look at the display. What is shown in position 0? "0" (successful) "X" (not recognized)

STEP 3: ENGAGE AND THEN DISENGAGE THE PUMP

With the vehicle foot brake on and transmission in neutral position, engage the pump, wait a few seconds and then disengage the pump.

Please look at the display. What is shown in position 1? "1" (successful) "X" (not recognized)

STEP 4: PRESS EACH SWITCH ON THE FRONT PANEL

When each switch is pressed, position 2 of the display will indicate the press, when all switches have been pressed, the display will show "2"

Please look at the display. What is shown in position 2? "2" (successful) Other (please indicate): _____

STEP 5: EXAMINE THE DISPLAY POSITION 3 and 4

The results of the output test are indicated in position 3 (analog) and 4 (pwm).

Please look at the display. What is shown in position 3? "3" (valid signal) "F" (signal failed) "-" (not applicable)

Please look at the display. What is shown in position 4? "4" (valid signal) "F" (signal failed) "-" (not applicable)

STEP 6: EXAMINE THE DISPLAY POSITION 5

The result of the pressure transducer test is indicated in display position 5.

Please look at the display. What is shown in position 5? "5" (valid signal) "F" (fail - low signal) "H" (Fail high signal)

STEP 7: TOGGLE THE HIGH IDLE SWITCH ON THEN OFF.

With the vehicle foot brake on, toggle the high idle switch (if this option is installed) ON, then OFF again.

Please look at the display. What is shown in position 6? "6" (successful) "X" (not recognized)

STEP 8: EXAMINE THE DISPLAY POSITION 7

The results of the internal test are shown in position 7

Please look at the display. What is shown in position 7? "7" (pass) "F" (fail)