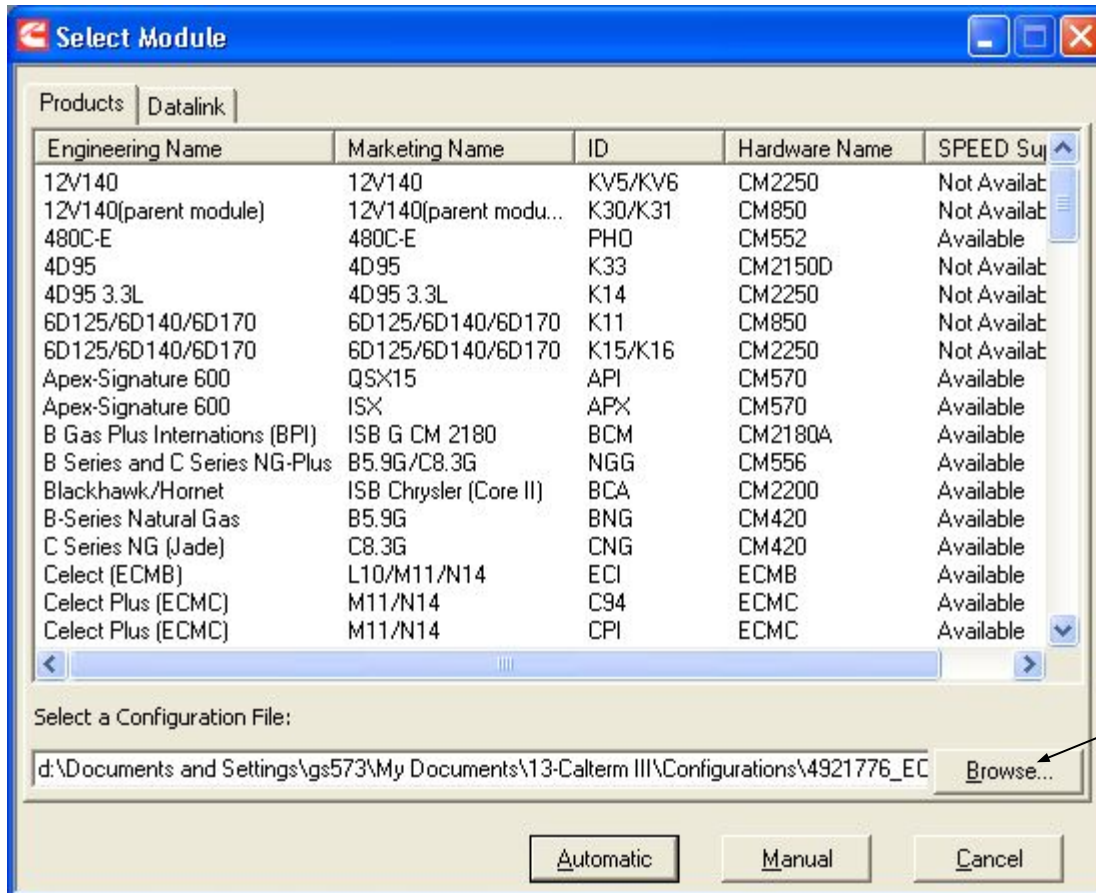


Changing hours on CUMMINS ECM
using:

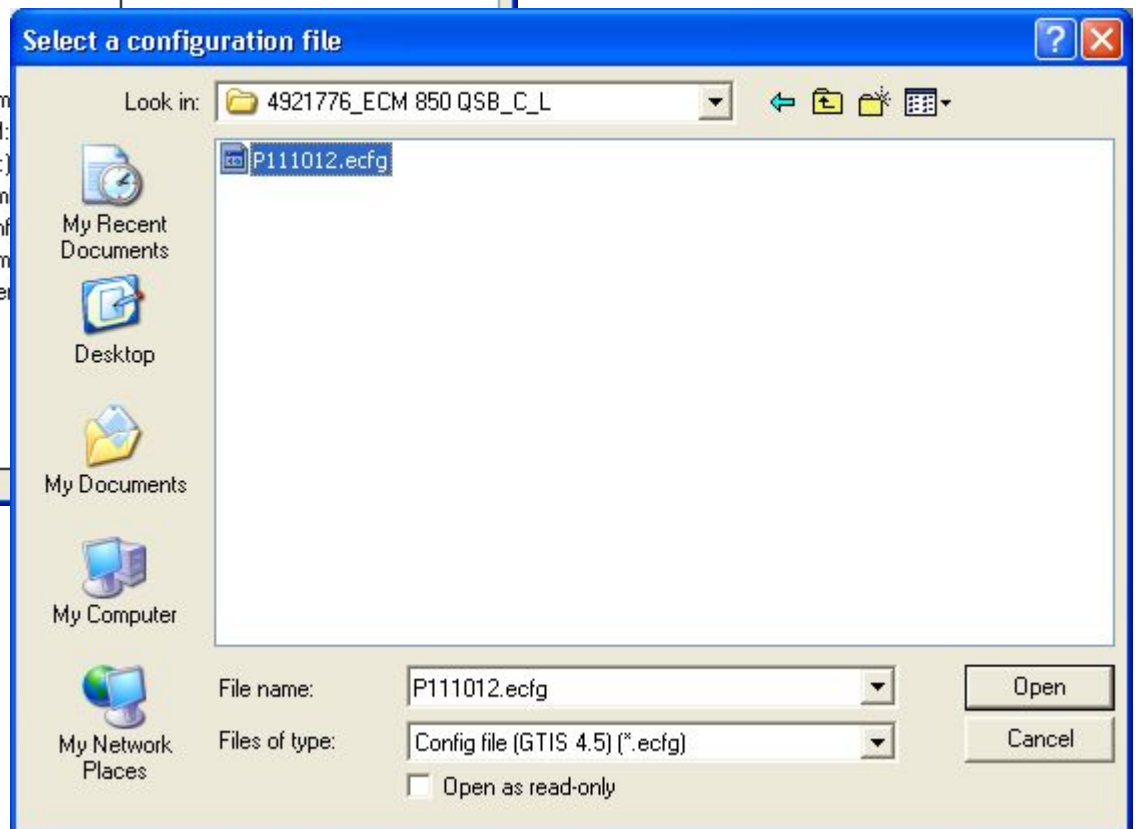
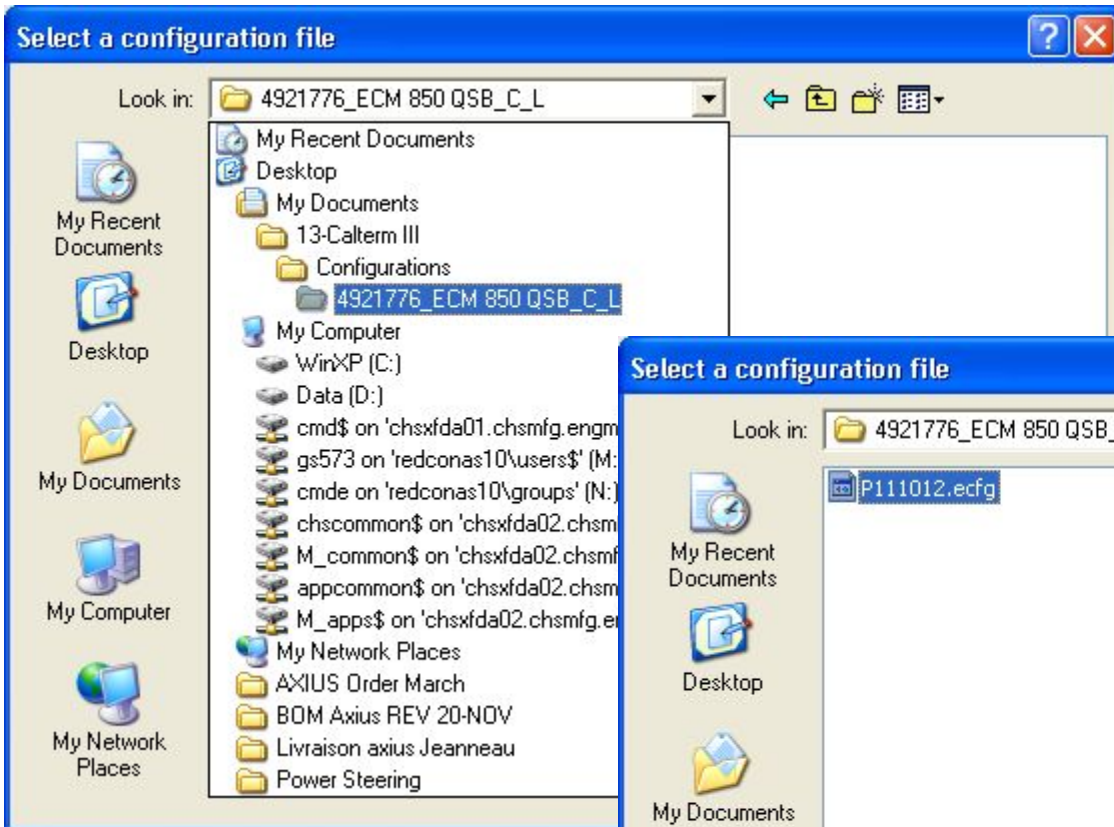
Calterm III

- Open Module Ctrl+O
- Open Calibration
- Open Subfile
- Open Export File
- Close
- Save Ctrl+S
- Save As Ctrl+Shift+S
- Save All
- 1ABC: P111012.ecfg
- Exit

Connect to ECM, Open Module



Browse the configuration file for ECM involves on the process





RP1210a : J1939

Screen 0

Filename Screen_000.scr.xml Name Screen 0 Mode Request/Receive Desired 20 ms 103

Addr	Name	Value	Unit
00	_Engine_Run_Time	6000	s
00	Engine_Run_Time	6000	s
* (at bottom)			

Addr	Name	Value	Unit
* (at bottom)			

Product Information Addr 00

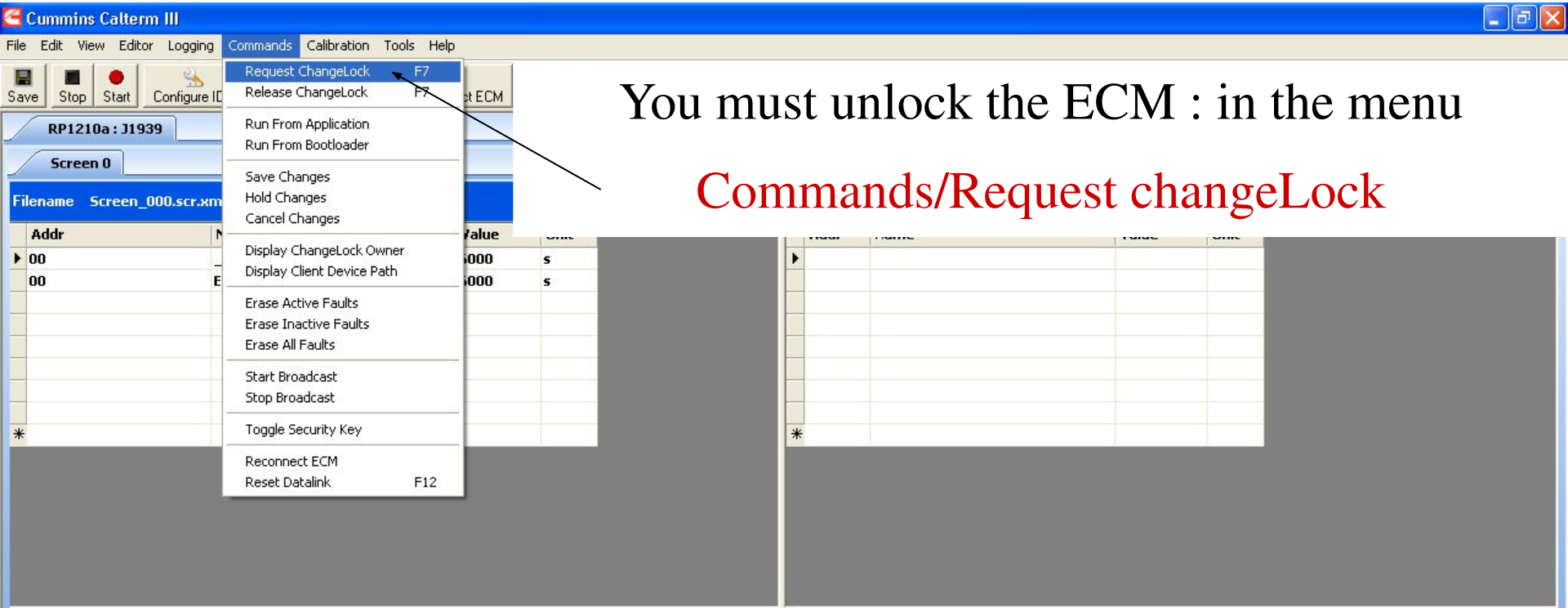
Product_Id-Selected	ABC
Product_Id-Actual	P11
Config File	P111012.ecf
Config Date/Ver.	11.1.0.12
Cal File	Module
Cal Date/Ver	15.1.0.11
DLA Firmware	5.32
DLA Driver Version	1.0/2.0
BootLoader Version	4.7.1.2
Run Location	Application
ECM Part Number	4921776

Event Log

Date	Description
29/01/2009 11:19	Datalink connection established.
29/01/2009 11:19	CLIP Session opened/established successfully.
29/01/2009 11:19	CLIP Transport session opened.
29/01/2009 11:19	Datalink connection terminated.
29/01/2009 11:19	CLIP Session closed.
29/01/2009 11:19	The transport connection has been closed.
29/01/2009 11:19	Datalink connection established.
29/01/2009 11:19	CLIP Session opened/established successfully.
29/01/2009 11:19	CLIP Transport session opened.
29/01/2009 11:19	Datalink connection terminated.

Faults

00:0123
00:0132
00:0134
00:0141
00:0144
00:0146
00:0153
00:0195
00:0272
00:0285
00:0428
00:0451
00:2265
00:2266



You must unlock the ECM : in the menu
Commands/Request changeLock

Product Information	Addr	00	Event Log	Faults
Product_Id-Selected	ABC			00:0123
Product_Id-Actual	P11		29/01/2009 11:19 Datalink connection established.	00:0132
Config File	P111012.ecf		29/01/2009 11:19 CLIP Session opened/established successfully.	00:0134
Config Date/Ver.	11.1.0.12		29/01/2009 11:19 CLIP Transport session opened.	00:0141
Cal File	Module		29/01/2009 11:19 Datalink connection terminated.	00:0144
Cal Date/Ver	15.1		29/01/2009 11:19 Datalink connection terminated.	00:0146
DLA Firmware	5.32		29/01/2009 11:19 Datalink connection terminated.	00:0153
DLA Driver Version	1.0/2		29/01/2009 11:19 Datalink connection terminated.	00:0195
BootLoader Version	4.7.12		29/01/2009 11:19 Datalink connection terminated.	00:0272
Run Location	Application		29/01/2009 11:19 CLIP Session opened/established successfully.	00:0285
ECM Part Number	4921776		29/01/2009 11:19 CLIP Transport session opened.	00:0428
			29/01/2009 11:19 Datalink connection established.	00:0451
			29/01/2009 11:19 CLIP Transport session opened.	00:2265
			29/01/2009 11:19 Datalink connection terminated.	00:2266

ECM Lock

F1 - Function key list

Cummins Calterm III

File Edit View Editor Logging Commands Calibration Tools Help

Save Stop Start Configure ID

RP1210a : J1939

Screen 0

Filename Screen_000.scr.xml

Addr

00

00

Request ChangeLock F7

Release ChangeLock F7

Run From Application

Run From Bootloader

Save Changes

Hold Changes

Cancel Changes

Display ChangeLock Owner

Display Client Device Path

Erase Active Faults

Erase Inactive Faults

Erase All Faults

Start Broadcast

Stop Broadcast

Toggle Security Key

Reconnect ECM

Reset Datalink F12

Next step, Menu:

Commands/Toggle security Key

Product Information	Addr	00
Product_Id-Selected	ABC	
Product_Id-Actual	P11	
Config File	P111012.ecf	
Config Date/Ver.	11.1.0.12	
Cal File	Module	
Cal Date/Ver	15.1.0.11	
DLA Firmware	5.32	
DLA Driver Version	1.0/2.0	
BootLoader Version	4.7.1.2	
Run Location	Application	
ECM Part Number	4921776	

Event Log		
Date	Description	
29/01/2009 11:19	Datalink connection established.	
29/01/2009 11:19	CLIP Session opened/established successfully.	
29/01/2009 11:19	CLIP Transport session opened.	
29/01/2009 11:19	Datalink connection terminated.	
29/01/2009 11:19	CLIP Session closed.	
29/01/2009 11:19	The transport connection has been closed.	
29/01/2009 11:19	Datalink connection established.	
29/01/2009 11:19	CLIP Session opened/established successfully.	
29/01/2009 11:19	CLIP Transport session opened.	
29/01/2009 11:19	Datalink connection terminated.	

Faults
00:0123
00:0132
00:0134
00:0141
00:0144
00:0146
00:0153
00:0195
00:0272
00:0285
00:0428
00:0451
00:2265
00:2266



RP1210a : J1939

Screen 0

Filename Screen_000.scr.xml Name Screen 0 Mode Request/Receive Desired 20 ms 97

Addr	Name	Value	Unit
00	_Engine_Run_Time	6000	s
00	Engine_Run_Time	6000	s

Addr	Name	Value	Unit

Product Information

Product_Id-Selected	Addr
ABC	00
Product_Id-Actual	P11
Config File	P111012.ecf
Config Date/Ver.	11.1.0.12
Cal File	Model
Cal Date/Ver	15.1
DLA Firmware	5.32
DLA Driver Version	1.0/2
BootLoader Version	4.7.1.2
Run Location	Undefined
ECM Part Number	4921776

Event Log

Date	Description
29/01/2009 11:21	Datalink connection established.
29/01/2009 11:21	CLIP Session opened/established successfully.
29/01/2009 11:21	CLIP Transport session opened.
	... terminated.
	... has been closed.
	... established.
29/01/2009 11:21	CLIP Session opened/established successfully.
29/01/2009 11:21	CLIP Transport session opened.
29/01/2009 11:21	Datalink connection terminated.

Faults

00:0123
00:0132
00:0134
00:0141
00:0144
00:0146
00:0153
00:0195
00:0272
00:0285
00:0428
00:0451
00:2265
00:2266

ECM Unlock

Press F1 to add parameters

Add :

Engine_Run_Time

The screenshot shows the 'ParameterQuery' application window. The 'Query String' field contains 'Engine_Run_Time'. The 'Selection Criteria' is set to 'Show all parameters'. The 'Sort By' options are 'Subfile', 'Group', and 'Parameter', with 'Parameter' selected. The 'Filter File' section has 'Open', 'Save', and 'Clear' buttons. The 'Parameter List' section has 'Show Comment' checked. The 'Collapse' button is visible, and 'Display RAM Parameters' is checked. The main table lists parameters with their names and comments. The 'Engine_Run_Time' parameter is selected and highlighted in blue. An arrow points from the text 'Engine_Run_Time' to this row.

Parameter Name	Comments
<input checked="" type="checkbox"/> Engine_Run_Time	The total amount of time that the engine is
<input type="checkbox"/> Engine_Speed	Engine speed
<input type="checkbox"/> Engine_Startup_Inhibit_N	ENGINE STARTUP INHIBIT [From
<input type="checkbox"/> Engine_Stopped_Speed	[CKSPRP] Engine speed for transition
<input type="checkbox"/> Engine_Torque_Mode	State signal which indicates which engine
<input type="checkbox"/> Engine_Warmup_Prot_Active	Status flag indicating whether engine
<input type="checkbox"/> Engn_Actual_State	The state of the engine:
<input type="checkbox"/> ENGN_CHG_Register_Ctr	Count of registered Charge control
<input type="checkbox"/> Engn_Control_Path_Owner	This value indicates the ID of the "owner"
<input type="checkbox"/> ENGN_EpdKeyOffFlg	This flag indicates to EPD that the
<input type="checkbox"/> ENGN_EpdShtdwnEngine	Status signal which indicates whether or
<input type="checkbox"/> ENGN_EpdShtdwnWarning	Status signal which indicates that engine
<input type="checkbox"/> ENGN_EpdSpdDrtldDurSD	This is the id of the sensor that was
<input type="checkbox"/> ENGN_EpdTimerState	Status signal which indicates the current
<input type="checkbox"/> ENGN_EpdTrqDrtldDurSD	This is the id of the sensor that was
<input type="checkbox"/> ENGN_FS_Register_Ctr	Count of registered FS components

Screens: Screen 0 Apply

Append Clear All Close

RP1210a : J1939 d:\Documents and Settings\gs573\My Docurr

Filename Screen_000.scr.xml Name Screen 0 Mode Request/Receive Desired 20 ms

Addr	Name	Value	Unit	Addr	Name	Value	Unit
00	_Engine_Run_Time	6000	s				
00	Engine_Run_Time	4500	s				

Double click in the value cell
Type desired value in SECONDS
Click enter.

Product Information Addr 00

Product_Id-Selected	ABC
Product_Id-Actual	P11
Config File	P111012.ecd
Config Date/Ver.	11.1.0.12
Cal File	Module
Cal Date/Ver	15.1.0.11
DLA Firmware	5.32
DLA Driver Version	1.0/2.0
BootLoader Version	4.7.1.2
Run Location	Application
ECM Part Number	4921776

Event Log

Date	Description
29/01/2009 11:21	Datalink connection established.
29/01/2009 11:21	CLIP Session opened/established successfully.
29/01/2009 11:21	CLIP Transport session opened.
29/01/2009 11:21	Datalink connection terminated.
29/01/2009 11:21	CLIP Session closed.
29/01/2009 11:21	The transport connection has been closed.
29/01/2009 11:21	Datalink connection established.
29/01/2009 11:21	CLIP Session opened/established successfully.
29/01/2009 11:21	CLIP Transport session opened.
29/01/2009 11:21	Datalink connection terminated.

Faults

00:0123
00:0132
00:0134
00:0141
00:0144
00:0146
00:0153
00:0195
00:0272
00:0285
00:0428
00:0451
00:2265
00:2266

RP1210a : J1939

Screen 0

Addr	Name	Value	Unit
00	_Engine_Run_Time	4500	s
00	Engine_Run_Time	<u>4500</u>	s

Addr	Name	Value	Unit

The new value is underlined in yellow color.

Product Information

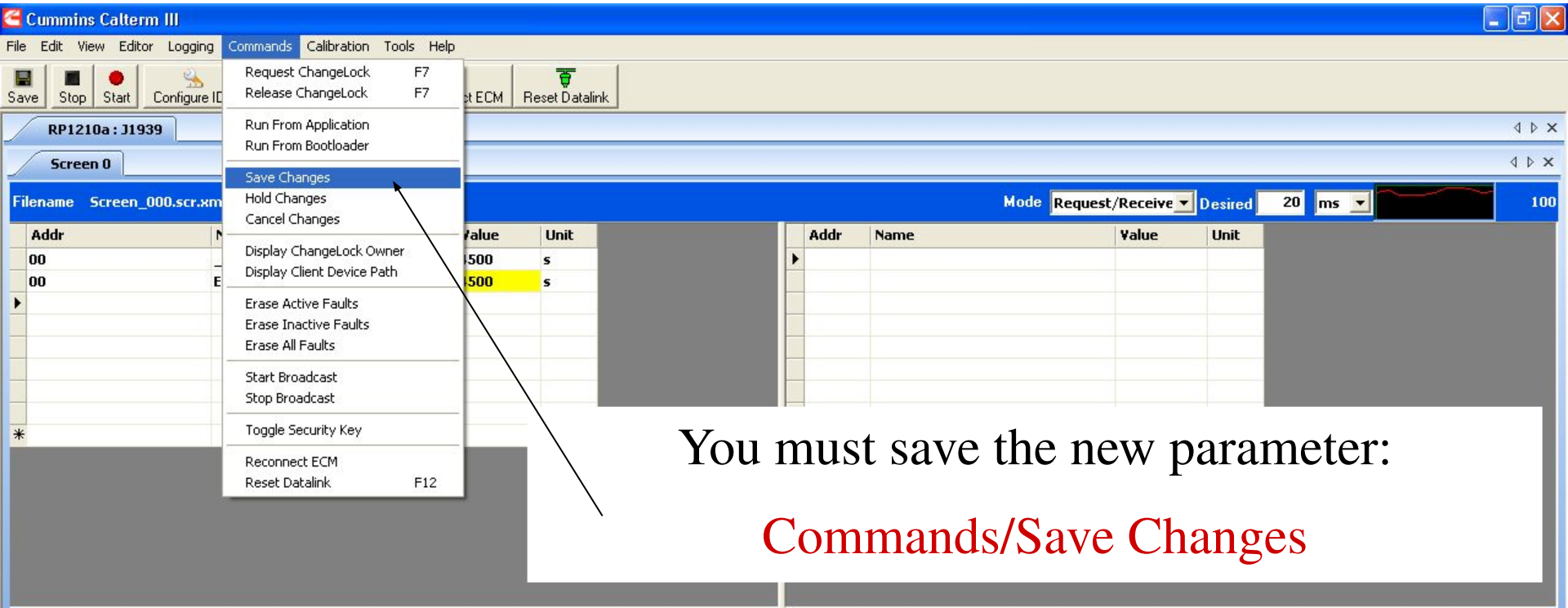
Product_Id-Selected	ABC
Product_Id-Actual	P11
Config File	P111012.ecf
Config Date/Ver.	11.1.0.12
Cal File	Module
Cal Date/Ver	15.1.0.11
DLA Firmware	5.32
DLA Driver Version	1.0/2.0
BootLoader Version	4.7.1.2
Run Location	Application
ECM Part Number	4921776

Event Log

Date	Description
29/01/2009 11:21	Datalink connection established.
29/01/2009 11:21	CLIP Session opened/established successfully.
29/01/2009 11:21	CLIP Transport session opened.
29/01/2009 11:21	Datalink connection terminated.
29/01/2009 11:21	CLIP Session closed.
29/01/2009 11:21	The transport connection has been closed.
29/01/2009 11:21	Datalink connection established.
29/01/2009 11:21	CLIP Session opened/established successfully.
29/01/2009 11:21	CLIP Transport session opened.
29/01/2009 11:21	Datalink connection terminated.

Faults

00:0123
00:0132
00:0134
00:0141
00:0144
00:0146
00:0153
00:0195
00:0272
00:0285
00:0428
00:0451
00:2265
00:2266



You must save the new parameter:
Commands/Save Changes

Product Information	Addr	00	Event Log	Faults
Product_Id-Selected	ABC			00:0123
Product_Id-Actual	P11			00:0132
Config File	P111012.ecf			00:0134
Config Date/Ver.	11.1.0.12			00:0141
Cal File	Module			00:0144
Cal Date/Ver	15.1.0.11			00:0146
DLA Firmware	5.32			00:0153
DLA Driver Version	1.0/2.0			00:0195
BootLoader Version	4.7.1.2			00:0272
Run Location	Application			00:0285
ECM Part Number	4921776			00:0428
				00:0451
				00:2265
				00:2266

Now you must re-lock the ECM through menu:

Commands/toggle Security Key

- Request ChangeLock F7
- Release ChangeLock F7
- Run From Application
- Run From Bootloader
- Save Changes
- Hold Changes
- Cancel Changes
- Display ChangeLock Owner
- Display Client Device Path
- Erase Active Faults
- Erase Inactive Faults
- Erase All Faults
- Start Broadcast
- Stop Broadcast
- Toggle Security Key**
- Reconnect ECM
- Reset Datalink F12

Confirmation changes have been saved

Product Information	Addr	00
Product_Id-Selected	ABC	
Product_Id-Actual	P11	
Config File	P111012.ecf	
Config Date/Ver.	11.1.0.12	
Cal File	Module	
Cal Date/Ver	15.1.0.11	
DLA Firmware	5.32	
DLA Driver Version	1.0/2.0	
BootLoader Version	4.7.1.2	
Run Location	Application	
ECM Part Number	4921776	

Event Log		
Date	Description	
29/01/2009 11:24	Command SaveChanges executed successfully on device address 0x00	
29/01/2009 11:21	Datalink connection established.	
29/01/2009 11:21	CLIP Session opened/established successfully.	
29/01/2009 11:21	CLIP Transport session opened.	
29/01/2009 11:21	Datalink connection terminated.	
29/01/2009 11:21	CLIP Session closed.	
29/01/2009 11:21	The transport connection has been closed.	
29/01/2009 11:21	Datalink connection established.	
29/01/2009 11:21	CLIP Session opened/established successfully.	
29/01/2009 11:21	CLIP Transport session opened.	

Faults
00:0123
00:0132
00:0134
00:0141
00:0144
00:0146
00:0153
00:0195
00:0272
00:0285
00:0428
00:0451
00:2265
00:2266

Addr	Name	Value	Unit
00	_Engine_Run_Time	4500	s
00	Engine_Run_Time	4500	s

Now you must key-off the ECM power supply 30 seconds

Reconnect ECM power supply to be sure parameter has been changed

Product Information

Product Id-Selected	Product Id-Actual	Config File	Config Date/Ver.	Cal File	Cal Date/Ver	DLA Firmware	DLA Driver Version	BootLoader Version	Run Location	ECM Part Number
ABC	P11	P111012.ecf	11.1.0.12	Module	15.1.0.11	5.32	1.0/2	4.7.1	Application	4921776

Event Log

Date	Description
29/01/2009 11:25	Datalink connection established.
29/01/2009 11:25	CLIP Session opened/established successfully.
29/01/2009 11:25	CLIP Transport session opened.
29/01/2009 11:25	Datalink connection terminated.
29/01/2009 11:25	CLIP Session closed.
29/01/2009 11:25	Connection has been closed.
29/01/2009 11:25	Connection established.
29/01/2009 11:25	CLIP Session opened/established successfully.
29/01/2009 11:25	CLIP Transport session opened.
29/01/2009 11:25	CLIP Session closed.

Faults

00:0123
00:0132
00:0134
00:0141
00:0144
00:0146
00:0153
00:0195
00:0272
00:0285
00:0428
00:0451
00:2265
00:2266

ECM re-Lock

You could check as well with Insite the new value

The screenshot shows the Insite software interface for an engine. The main window displays a list of parameters with their current values and units. The 'Engine Hours' parameter is highlighted in blue, and its value '1:15:00' is circled in red. A red arrow points from the text above to this value.

Parameter	Value	Units
Accelerator Control Base Enable	Enable	
Accelerator Pedal or Lever Indicator	Primary Accelerator Pedal or	
Accelerator Pedal or Lever Position Sensor Signal Voltage	0.00	V
Accelerator Pedal or Lever Position Sensor Supply Voltage	4.85	V
Amber Warning Lamp Status	On	
Anti Theft Status	Unlocked	
Battery Voltage	10.7	V
Calibration Software Phase	0 F01000B	
Diagnostic Test Mode Switch	Off	
Dual Output Driver A	Off	
Dual Output Driver B	Off	
ECM Time(Key On Time)	98:01:00	HH:MM:SS
EFC Actuator Valve Commanded Current	0.00	A
EFC Actuator Valve Duty Cycle	0	Percent
EFC Actuator Valve Measured Current	0.00	A
EFC Actuator Valve Position	Open	
Electric Fuel Lift Pump Current	0.1	A
Electric Fuel Lift Pump Duty Cycle	0	Percent
Electric Fuel Lift Pump Position	Off	
Engine Coolant Level	Normal	
Engine Coolant Temperature	10.0	C
Engine Coolant Temperature Sensor Signal Voltage	0.10	V
Engine Hours	1:15:00	HH:MM:SS
Engine Oil Pressure	0.0	kPa
Engine Oil Pressure Sensor Signal Voltage	0.00	V