
Does code59 work on 1227808

Posted by Sammy - 09/16/2008 04:13

Hi guys, im not sure if you can help me or not, i've been working on getting the \$59 code working on my car ... bit of a run down ...

its a straight 6 cylinder holden motor which has been converted to run on the delco 1227808 ecu and as far as all that goes its working fine. It uses a reluctor type distributor for the pickup and a single coil and ignition module to talk to the ecu. I plan to run the \$59 code if possible so i can fit a turbo to the car and use all the nice features this code has.

now i have modified the 1227808 by way of a max232 comms board which solders onto the ecu and basically gives me a serial port on the side of the ecu which i can get 8192 baud data from ... the stock setup for this ecu only allows 160 baud

so once i have the ecu to this stage i can get data out of it using the \$12 code which is the same as a 16183082 / 16206305 ecu (which from what i understand is supposed to be the same as my modified 1227808) anyway thats probably beside the point i guess it proves that the interface does work etc

i have installed a 3 bar map sensor, and i have been able to get the engine to start and run for a few seconds with a starter bin modified for my referance angle, idle rpms and after increasing the BPC.

so my question is: does anyone know if the 1227808 will work with the \$59 code using tunerpro rt to log aldl data ?

i understand if you guys can't help me because this is an australian ecu and you may not have heard about it but i thought it can't hurt to ask!

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Re: Does code59 work on 1227808

Posted by turbodig - 09/16/2008 09:04

One way to find out... try it.

Just a key-on test will tell you if you have data or not.

I'd be kinda surprised that it did... this would mean that the hardware layout internally was the same/similar.

Burn a bin, and give it a shot.

Dig

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Re: Does code59 work on 1227808

Posted by spanners - 09/16/2008 16:29

hey sammy when we ran \$58 on the 808 in a vp commodore it didnt like the DIS coilpack ignition and referance angle and would lock the timing and did what your car is doing idle fine untill est temp flag was reached then die but once i hex edited in some funny "max spark advance" and "max spark retard from ref" that i was told to do by someone on thirdgen she fired right up.so im thinking this tune doesnt like the 10degree reference angle that you need to run with the camira ignition module.set your dizzy to 0 degrees and set the tune back to 0referance angle and see what happens leave max advance and max retard stock too might not start to easy with 0 advance but least it ashould not stop if that was the problem

anyone on here ever change the referance angle to suit another car and had this problem and know a work around.

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Re: Does code59 work on 1227808

Posted by turbodig - 09/16/2008 16:48

The "timing lock" problem is fixable, if you get it working that far.

Dig

Re: Does code59 work on 1227808

Posted by Sammy - 09/16/2008 17:55

Originally posted by turbodig

One way to find out... try it.

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I'd be kinda surprised that it did... this would mean that the hardware layout internally was the same/similar.

Burn a bin, and give it a shot.

Dig

i have tried it and i am not getting it to connect to tunerpro ... so does that mean its a wasted cause or what ? i really don't know much about the aldl settings in tunerpro because in the past i didn't know how to use it for that i usually used efilive

Re: Does code59 work on 1227808

Posted by spanners - 09/17/2008 03:25

hey turbodig he changed the spark reference back too zero and set the dizzy to zero advance base setting and it now starts and runs till he turns it off can you help us change the code for the camira ignition module so we can get back to 10 degree initial advance for better start-up or even just let us know how to do it.while your at it some of us want to run it on our V6 holden commodores too I have had it running and to get it to run i had to hex edit the max advance and max retard with some strange settings to get it too work with the coilpack wasted spark ignition with reference angle of 69.96 i think reference angle. could you maybe do a workaround for that too or should we juststick with our hex edited settings seems to work ok like that.internally the ecu is supposidly the same as a 165 ecu just without the comms chip and our vn- vp commodores are wired up just like the 165 running \$58 method I read of somewhere.

Re: Does code59 work on 1227808

Posted by turbodig - 09/17/2008 07:21

I think Paul fixed the reference angle/max retard settings in the last xdf... Paul?

So, just so I'm following you guys....

It starts and runs now, but no ALDL data?

Dig

Re: Does code59 work on 1227808

Posted by spanners - 09/17/2008 09:43

yip starts runs forever timing is off for sure popping/slight backfire out exhaust running rough same as what happened

when i first tried on the dis ignition I could advance the timing in one of the tables on the dis V6 and get it to run smoother havnt bothered with this one cause its the same as when i didnt have dis programmed properly came right when i fixed up the timing settings for v6 ran like a dream.it has a solid check engine light too we will start turning off MALF flags so we can find whats throwing the code once it runs smoother wouldnt be too healthy leaving it running like it is.the V6 had the same thing solid check engine light when it hits a temp to enable setting for something its not in limphome mode either on the v6 cause it runs so good even with the solid CEL no aldl yet it isnt a highspeed ecu but its had a special circuit board added with a max 232 chip on it to convert to highspeed aldl works with \$12 VR bin and efilive for aldl logging sweet as he hasnt verified cable operation in tunerpro yet will be tomorrows task

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Re: Does code59 work on 1227808

Posted by Paul - 09/17/2008 12:23

Let me take a look at it the XDF and see if I fixed it. I need to get the latest one done and all the fixes everyone posted to it and release it. I need to talk to Mark about how TP handles the MSB and LSB with it doing plus or minus. I am pretty sure I have it setup incorrectly.

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Re: Does code59 work on 1227808

Posted by turbodig - 09/17/2008 14:51

Originally posted by spanners

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Paper-clip diag code check should tell you codes... no need to hunt-n-peck.

Temp related - would suspicion an o2 code, or a 44/45.

I need some details on your DIS. I suspect you'll need the same settings that the 2.8/3.1 DIS over here uses. That's just a guess, without details.

Also, if you have a link to the Max-232 mod, that might help.
if I remember right, your Aussie 160 baud had a 12v interface. Our ALDL cables convert from 5v ECM to +/-12, so I'm kinda wondering what you guys are running for cables, and how stuff is hooked up.

I don't see anything that would keep the thing from working. You should see a periodic "heartbeat" on the data line. F0 55 XX, or something similar. If that's happening, I'd suspect the problem lies in the cabling someplace.

It'd be interesting to see if this works, since it would imply that a '165 would be workable, too.

If it's running, we're pretty close. (Unless it were running on backup, but it doesn't sound like it is)

I don't have an '808 handy, or I'd plug it into the bench.

Dig

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Re: Does code59 work on 1227808

Posted by spanners - 09/17/2008 18:03

I was using the settings for us dis in the \$58 and it worked presume they are similar has crank trigger wheel with 2 lots of cutouts one has 3 cutouts on the inside wheel and the outer wheel I cant remember off hand runs a duel groove crank angle sensor for both wheels to pass through.and dfi pack under coils its called dfi ignition here.its wasted spark 2 cylinders per coil 3 coils total.forgot about the old paperclip test to much of using the laptop instead of a paperclip damn technology.ill get a pic of the highspped aldl conversion cable and how its wired into the ecu

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Re: Does code59 work on 1227808

Posted by spanners - 09/17/2008 18:20

Attached Image:

http://www.code59.org/images/attachments/2008917181547_P1010719.JPG

heres one pic of cable

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Re: Does code59 work on 1227808

Posted by spanners - 09/17/2008 18:29

Attached Image:

http://www.code59.org/images/attachments/200891718244_P1010723.JPG

and heres where it attaches to where the missing UART should be.hes all set up running 2 laptops for logging one for the wideband and one for aldl doing it properly hes done well to convert from motronic efi to delco efi and got it running better than the factory efi hes been using \$5D but has just got hold of a turbo to go on his turbo exhaust manifold he made so we would like to run this code for boost.there is a \$5D tune the commodore boys run on a 2bar map sensor its a bit fudged and has lost lots of resolution from using the 2bar so ive been investigating this \$59 as a replacement

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Re: Does code59 work on 1227808

Posted by Sammy - 09/17/2008 19:43

Originally posted by turbodig

Paper-clip diag code check should tell you codes... no need to hunt-n-peck.

Temp related - would suspicion an o2 code, or a 44/45.

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If it's running, we're pretty close. (Unless it were running on backup, but it doesn't sound like it is)

I don't have an '808 handy, or I'd plug it into the bench.

Dig

i did try the paper clip and i got code 12

in the past when i first started tuning the \$5D code i was getting the light on all the time ... was code 13 ... o2 sensor but it seems to have resolved itself since then ... i was thinking maybe it was because my tune was out of whack and it didn't like being so rich for so long.

i don't really know how much i can tell you about the ignition setup ... it uses an electronic dizzy with a reluctor which has had all the advance mechanisms locked and its basically a crank trigger now and the top of it (the cap) is used to distribute the spark to each cylinder as normal.

the pulses from the reluctor get fed into a bosch ignition module which then talks to the ecu with the four wires (dizzy earth, est bypass, dizzy ref input and est output) and then i am assuming the est mode tells the ignition module when to fire the coil.

this file is pretty big (almost 1mb) but it shows you the layout of my setup - its at the bottom of the page
<http://www.oldholdens.com/temp/carstuff/je%20camira/File0001.pdf>

as you can see on that comms board there is an LED, it normally flashes when data is happening, and it never flashes, is just on hard all the time (i think its actually just another CEL)

as far as the link between it and the laptop its merely a normal serial extension cable....

i don't even know if my engine would run on limp home mode seeing how its a v6 memcal im using and it needed a fair amount of changing to get it to work with my motor.

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Re: Does code59 work on 1227808

Posted by Sammy - 09/19/2008 03:41

Well I haven't had much time to work on this thing as I've been helping my brother (did a timing belt in his van and bent some valves) but I have been able to get the tune going a bit better, I got it running just (as above) but with the lappy on the datalogger and it was like 20:1 AFR so I adjusted the tables by 1.5 times and it was pretty close to 14:1 then and it is now running a bit better but the timing is all over the joint and its idling at about 600rpm now so I think theres really not much more I can do till I can get the timing fixed bin file

Either way it sounds like its idling a lot better now other than being about 250-300rpm lower than what it should be :p

So yeah that's about all I've done at the moment :)

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Re: Does code59 work on 1227808

Posted by turbodig - 09/19/2008 09:37

Originally posted by Sammy

Well I haven't had much time to work on this thing as I've been helping my brother (did a timing belt in his van and bent some valves) but I have been able to get the tune going a bit better, I got it running just (as above) but with the lappy on the datalogger and it was like 20:1 AFR so I adjusted the tables by 1.5 times and it was pretty close to 14:1 then and it is now running a bit better but the timing is all over the joint and its idling at about 600rpm now so I think theres really not much more I can do till I can get the timing fixed bin file

Either way it sounds like its idling a lot better now other than being about 250-300rpm lower than what it should be :p

So yeah that's about all I've done at the moment :)

I'll still admit to being a bit confused about setups. From your description, you have a normal distributor setup. This won't need any reference angle/ max/min timing changes at all. The ones from the 6-cyl bins should be fine, unless there's something really funky about the ignition module. Any 6-cyl GM dissy ignition module should work, though.

Can you snap a pic of the reluctor setup in your dissy?

Memcal should be from a 6 cyl as well. SyTy one would be as good as any, although a 2.8/3.1 MEMCAL from a '730 app should probably work too.

The DIS setup spanners has is a different beast. That needs altered timing specs, because of the way the DIS wheel operates.

"Timing all over the place"... measured how?

Also, what part # MAP are you using?

Regarding the ALDL...

Go download a copy of Andy Whittaker's freescan. It has a "Log Coms to disk option"... Set it up for application 610B, hook the cable up, and see if you can get the thing to log anything to disk.

The heartbeat is at fast enough intervals that it might appear solid on an LED.

If you guys happen to have a hac'd assembly of \$5d,\$5a or \$12, that might shed some light on things. The data must work, since it does in your \$12/\$5d. It might be accessed through a different address range internally, since the underlying hardware is a bit different.

Dig

Re: Does code59 work on 1227808

Posted by spanners - 09/19/2008 19:34

dont know if this helps at all but a freind of ours has modified the VR \$12 code so it runs on the camira ignition module cause it calculates spark different than \$5D the \$5D does this to deliver spark correctly .to deliver spark at 30deg BTDC, it gets the 10 deg pulse and waits 70deg to deliver the spark at 30deg BTDC of the next cylinder. This is the way the VN \$5D code works.dont know if it helps at all.

Re: Does code59 work on 1227808

Posted by Sammy - 09/21/2008 05:19

ok few pics for yas...

firstly the reluctor setup inside the dizzy ...

<http://www.oldholdens.com/temp/vnkefi/R0018627.JPG>

camira ignition module on it ... white and green wires connect to the two black wires in the above pic.

<http://www.oldholdens.com/temp/vnkefi/R0018630.JPG>

the bits all connected to the motor this was when i was setting everything up and re-arranging the commodore v6 loom to suit my needs...

<http://www.oldholdens.com/temp/vnkefi/P1000284.JPG>

and this is the engine bay its all in ... not really relevant but i thought some of you might be interested to see what it looks like. (please look past the wiring mess :)

<http://www.oldholdens.com/temp/vnkefi/P1010586.JPG>

when i said timing all over the place that was with the timing light on the timing marks when it was running but i'd say

part of that was because of how rough it was running...

as for the map sensor .. at the moment this is all i got to show you what it is
<http://cgi.ebay.com.au/ws/eBayISAPI.dll?ViewItem&ssPageName=STRK:MEWNX:IT&item=170262014308>

other than that i can tell you it has a different plug to the 1 bar it replaced ... ie. the tabs that allow it to only go in one way are in different spots for each pin.

i'll get this freescan and have a whirl and let you know how i go.

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Re: Does code59 work on 1227808

Posted by kangsta - 09/22/2008 06:08

you might want to host the pics somewhere else, they dont come up for me

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Re: Does code59 work on 1227808

Posted by Sammy - 09/22/2008 06:15

sorry guys, the pics are hosted on my server at home which im currently having some issues with, will try and resolve asap!

EDIT: should be working again now!

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Re: Does code59 work on 1227808

Posted by XR Pilot - 10/01/2008 20:10

I too am interested in the \$59 on '808 project. I'll dig through my notes when I get home, but I did do a comparison at one stage between the 730 schematics and the 1227165 (same as '808 but has 8192 baud ALDL) and there were a few differences in pins, but most of them were there. From memory hardware mods were required to get the fan output working and a couple of other things, as the pin was on the processor but was N/C. Is it possible to reassign output pins in the software and create, say a 165/808 patched code 59, as I know this would benefit a lot of people. There were only about 3 or so pins that needed to be swapped/reassigned in total to avoid any hardware mods on the board. I'm still not sure if ALDL would work though even on a 165, it would require testing.

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Re: Does code59 work on 1227808

Posted by turbodig - 10/02/2008 13:59

The ALDL thing, whether hi vs. lo speed, is primarily a software thing. anything, really, that the '165 does with ALDL, \$59 should be able to as well.

What pins are the ones that don't seem to work, other than fan?
Fan doesn't surprise me, I guess. Temp switches will get around that.

The 165/808 are even more pin-limited than the 730/749, so we might get into situations where we're running out of pins for things.

As you mention, the proc and a lot of the underlying hardware are the same, just not everything is populated.

Dig

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Re: Does code59 work on 1227808

Posted by turbodig - 10/02/2008 14:41

Originally posted by Sammy

ok few pics for yas...

firstly the reluctor setup inside the dizzy ...

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as for the map sensor .. at the moment this is all i got to show you what it is other than that i can tell you it has a different plug to the 1 bar it replaced ... ie. the tabs that allow it to only go in one way are in different spots for each pin.

i'll get this freescan and have a whirl and let you know how i go.

Neat setup. Looks odd to me to see the brake booster on the other side. :)

Anyway, the setup you have should work just the same as our distributor v6, unless there's something really odd with that ignition module.

Timing will move around quite a bit if the idle is unstable.
We really won't know too much more until we get it to read data, though.

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Re: Does code59 work on 1227808

Posted by turbodig - 10/03/2008 09:24

Did you guys try Freescan, to see if you can get data read back?

I'm looking at the BUA code now, which was native to the '165. (\$32)
I haven't seen anything that jumps out at me, that would lead me to believe that the hardware is lots different.

RAM seems adequate as well.

Dig

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Re: Does code59 work on 1227808

Posted by XR Pilot - 10/06/2008 21:01

Hi Dig,

I had a look through some of my notes (albeit briefly) and the biggest difference between the 165 and 730/749 is the 749 appears to have a few extra IO expanders linked through the SPI bus. the 165 is missing the 5154, which has the txenable pin for aldl. I need to double check these, but at a quick glance looking at things from a \$59 perspective:

txenable needs to move from 5154 pin 20 (out0) to main cpu 4980 pin 19 (MUXB)
tcc needs to move from pin 6 on 4980 (F4out) to 5148 pin 4 (E9out)
ac relay needs to move from 5148 pin 3 (F1) to 5148 pin 52 (F5out)
fan needs to move from 5148 pin 51 (fan) to 4980 pin 17 (F8out).

there are a fair few more to come.

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Re: Does code59 work on 1227808

Posted by XR Pilot - 10/06/2008 21:13

From a 165/808 perspective:

use b9 as p/steer idle up if needed.
D12 is wastegate control
D8 will be the wideband input.

another option for the a/c relay is moving C2 to A3 (moving it in software would be better though :D)

please note, I really need to verify these suggestions as I was very tired when I made the preliminary notes....

Edit:

I bought a folder today to organise my notes and went through them. Comparing the 808 to 749, we are missing the 5154, 5153 and 1 4984 ic's.

Things that (should) work as is: TPS, IAT, MAP, CTS, O2, SES (CHK ENG), AC request, park neutral switch, knock sensor.

Things i'm not sure about:

IAC. The controller is the same, but the 808 uses an iacenable pin on the 4993, this is a limp mode pin on 749. this iac pin is used as a MUXA pin on the 749's cpu.

The vss input on the 808 is the same as the 749, but the 749 uses a different circuit normally. Could be a software flag?

ESC pin on 749 is on 5153 expansion ic. this goes to 4988 on 808, on the same pin that the 5153 would connect to on a 749. fault1819 on the 5153 is also a problem, this is used in the injector circuit and connects to main cpu on an 808, pin 3/4/5, used as MUXC, IIIUCS, GLUCS on 749. otherwise the missing 5153 causes no other problem.

Your TCC (F4out) goes to INJA pin on our ecus. So the TCC pins definitely need to be looked at.

I also know this is all going to be very confusing, its much easier to understand with a copy of both the 808 and 749 schematics + generic wiring for each ecu in hand.

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Re: Does code59 work on 1227808

Posted by Sammy - 10/07/2008 05:35

dig - save the image to your pc and mirror it, that will sort the booster out

i haven't tried freescan yet, i will see if i can download it and have a play over the next few days and let you know.

as for all this schematic talk above its made my head spin and im now going to bed

=====

Re: Does code59 work on 1227808

Posted by Sammy - 10/07/2008 05:44

ok just a quick one, looking at freescan, what model car should i select for this or should i just try one at a time ?

=====

Re: Does code59 work on 1227808

Posted by turbodig - 10/07/2008 12:35

Originally posted by Sammy

ok just a quick one, looking at freescan, what model car should i select for this or should i just try one at a time ?

GM610B.

=====

Re: Does code59 work on 1227808

Posted by turbodig - 10/07/2008 15:01

Originally posted by XR Pilot

Hi Dig,

I had a look through some of my notes (albeit briefly) and the biggest difference between the 165 and 730/749 is the 749 appears to have a few extra IO expanders linked through the SPI bus. the 165 is missing the 5154, which has the txenable pin for ald. I need to double check these, but at a quick glance looking at things from a \$59 perspective:

txenable needs to move from 5154 pin 20 (out0) to main cpu 4980 pin 19 (MUXB)

there are a fair few more to come.

Aha... the plot thickens, as they say. Thanks for sharing!

Txenable is why it's not working... the only time that UART can TX, is when something was flipping muxB to do A/D. Bad Yams.

We can fix that in the ALDL/transmit routine, but it brings up a problem with that mux... everything on it as far as a signal is pretty much invalid, since the A/D read routines are expecting to get that from the mux'd A/D. Makes me wonder, too if the other A/Ds were being addressed right in the code.

We can fix that, too, but it's a bit more daunting. The upside is that doing so would eliminate a few of the re-pin issues.

This would explain why it would run, but kinda crappy.

How are you with code? This will need some additional programmers to get done, as I'm spread kinda thin right now. I might be able to hack the ALDL stuff in the short term, though.

Dig

=====

Re: Does code59 work on 1227808

Posted by Sammy - 10/07/2008 23:46

code is not my thing at all unfortunately :(

=====

Re: Does code59 work on 1227808

Posted by XR Pilot - 10/08/2008 05:04

Assembly? that's what you do with kit furniture right? :-P

I can help with schematics and hardware testing, but unfortunately I know no assembler. I will however ask for help from a few guys in the aussie 808 scene and see if we can find someone who can help out.

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Re: Does code59 work on 1227808

Posted by turbodig - 10/08/2008 06:16

I looked this over a bit last night... it might not be all that bad.

The only things that need immediate attention are the TX enable, and the ESC line, which hangs off that mux.

I'll see what I can hammer out.

Dig

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Re: Does code59 work on 1227808

Posted by turbodig - 10/08/2008 12:17

Regarding the 1604606 (UART) that you guys don't have...

Which pins are those wires running to, specifically?

Also, if you have a scope/voltmeter handy, can you see what, if any, activity is on that TX enable line?

I can flip that line either way, and fix the ESC line that's messed up, but I'm not entirely sure that's the only issues we'd have.

Dig

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Re: Does code59 work on 1227808

Posted by spanners - 10/08/2008 17:12

you guys have been busy sammy said there had been activity I musnt have email alerts turned on.im only just learning assembler for a little project i have going on so may not be much help still learning brain hurts but ill get the hang of it.as for the wires do you want to know what colour is TX and RX on the max232 pins or at the ecu.anyone know of a replacement uart to suit the 808 board and where to get one.

=====

Re: Does code59 work on 1227808

Posted by turbodig - 10/08/2008 19:00

I'm looking for what pins are wired to on the board.

Also, if one of you guys running it on an 808 can post your bin, I can try a couple quickie things.

Dig

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Re: Does code59 work on 1227808

Posted by VL400 - 10/08/2008 20:02

Originally posted by turbodig

How are you with code? This will need some additional programmers to get done, as I'm spread kinda thin right now. I might be able to hack the ALDL stuff in the short term, though.

Dig

Am happy to help on the coding :) have done a \$5D and \$12 hack that should help ;)

=====

Re: Does code59 work on 1227808

Posted by Sammy - 10/08/2008 21:46

this is the bin i used to get it SORTA running

its basically the starter bin modified to run on my motor, also changed the spark and fuel and so forth to get it idling a bit better

http://www.code59.org/images/attachments/2008108214525_Code59_Starter_V18_1_202spark_fuel_idle_mods.BIN

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Re: Does code59 work on 1227808

Posted by XR Pilot - 10/09/2008 00:28

Dig,

VL400 is the guy I asked if he would be able to help. He knows the \$12 pin mappings pretty well if you need a hand :)

As far as the UART goes, its exactly the same from 165/749 with the exception of the txenable pin. Don't worry about the missing UART on aussie 808s as we have ways around it - some aussie ecus are like surface mount 165s and guys like VL400 make 8192 baud conversion kits.

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Re: Does code59 work on 1227808

Posted by djbrooksy05 - 10/09/2008 02:49

hi all one more oz guy wanting to get the most out of a 808
sorry to say but i cant help much as ma just getting in to it all
but i will keep checking back to see how its all going
keep up the good work

mick

=====

Re: Does code59 work on 1227808

Posted by turbodig - 10/09/2008 06:30

Originally posted by VL400

Originally posted by turbodig

How are you with code? This will need some additional programmers to get done, as I'm spread kinda thin right now. I might be able to hack the ALDL stuff in the short term, though.

Dig

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Cool. In your \$5d/\$12, are they bidirectional ALDL, or output only?

BUA (\$32) has a section like this:

```
; Enable SXR Chip
; Par I/O
;
LDAA L4004 ; Get CSR
ORAA #$08 ; Set b3
STAA L4004 ; Wr Back
```

What I'm not entirely sure of, is whether or not your external circuit has an enable like the GM circuitry. Since both TX and RX hang on the same bus, you kinda need to turn off the TX drive (from the ECM's perspective) in order for the scan tool to be able to send the requests to get info back. If your existing \$12/\$5d code is a talk-only app, it would explain why your code can work with the external device, while ours can't.

Not that this would be a game-ending problem, we'd just have to find a more suitable MAX- device, and wire the TXenable to it.

I'll cobble together a \$59-for-808 and we can at least give it a try. I'm not entirely sure running it as it is, is a good thing- the 808/165 has a few of the i/o port pins on the processor wired together, and if the '749 code tried to drive them different directions, it could possibly damage things.

Later,

Dig

=====

Re: Does code59 work on 1227808

Posted by turbodig - 10/09/2008 09:34

Originally posted by Sammy

this is the bin i used to get it SORTA running

its basically the starter bin modified to run on my motor, also changed the spark and fuel and so forth to get it idling a bit better

Try this one... a "shot-in-the-dark" attempt. See if it still runs, and if the data connects.

http://www.code59.org/images/attachments/20081099321_V18A165.BIN

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Re: Does code59 work on 1227808

Posted by turbodig - 10/09/2008 14:51

Ooops... try this one instead.

http://www.code59.org/images/attachments/2008109145356_v18a165_2.zip

=====

Re: Does code59 work on 1227808

Posted by XR Pilot - 10/09/2008 16:33

Not sure if its what your asking, but \$12 is bi-directional. IE in efilive you can turn fuel pumps on and off etc via ALDL as far as I am aware.

VL400 would be the expert on \$12 ALDL, I'll wait for him to chime in.

=====

Re: Does code59 work on 1227808

Posted by VL400 - 10/09/2008 17:09

Originally posted by turbodig

Cool. In your \$5d/\$12, are they bidirectional ALDL, or output only?

BUA (\$32) has a section like this:

```
; Enable SXR Chip
; Par I/O
;
LDAA L4004 ; Get CSR
ORAA #$08 ; Set b3
STAA L4004 ; Wr Back
```

What I'm not entirely sure of, is whether or not your external circuit has an enable like the GM circuitry. Since both TX and RX hang on the same bus, you kinda need to turn off the TX drive (from the ECM's perspective) in order for the scan tool to be able to send the requests to get info back. If your existing \$12/\$5d code is a talk-only app, it would explain why your code can work with the external device, while ours can't.

Not that this would be a game-ending problem, we'd just have to find a more suitable MAX- device, and wire the TXenable to it.

I'll cobble together a \$59-for-808 and we can at least give it a try. I'm not entirely sure running it as it is, is a good thing- the 808/165 has a few of the i/o port pins on the processor wired together, and if the '749 code tried to drive them different directions, it could possibly damage things.

Later,

Dig

It does things the same in regards to Tx enable...

```
Idx #0x4004 ;
bset 0x00,x,#0x08 ; Enable SCI Xmit via SXR
```

In a factory \$12 application with the ALDL chip its a normal single wire interface with half duplex comms. But an 808 is missing that chip so flashes the CEL to get 160baud talk-only ALDL.

My '808 comms board hooks straight into the processor Tx, Rx and Tx enable pins so does not conform to the normal ALDL single wire standard. It uses a regular DB9-DB9 serial cable. The LED on the board only indicates what the Tx enable pin is doing. Am certain the comms board will work with \$59 code.

=====

Re: Does code59 work on 1227808

Posted by spanners - 10/09/2008 19:21

cheers for the help guys sammy's gonna try that tune when he gets home from work.now in regards to the ignition module the camira module when you have a cold start condition triggers the coil at 10 degrees as far as i understand eg no advance from base timing setting or referance angle now your ignition module over there is set at 0 degrees but obviously triggers the spark a bit advanced does it or do you start at 0 degrees advance till it hits the run spark temp setting.sammy's gonna try with the 10 degree ref angle first if he doesnt have any luck like last time he will set the dizzy and tune to 0 again

=====

Re: Does code59 work on 1227808

Posted by Sammy - 10/09/2008 22:47

ok well i tried the second bin there and there was nothing at all on the comms side of things, couldn't get anything to come up hyperterminal either

the engine is starting pretty much the same as it used to and stalling after about 5 seconds so im assuming its the timing thing, i dunno if thats once it gets to a certain kpa range or what but i didn't bother testing much further as it really doesn't matter without data :)

=====

Re: Does code59 work on 1227808

Posted by turbodig - 10/10/2008 09:07

Hmmm... it's kinda making me wonder how much is actually working.

If somebody over there has a scope to look at the TXD line that goes to your converter circuit, I'm curious as to what's happening.

You should see a periodic F0 - 55 - BB

If this is happening, we've probably still got issues with the TX enable. I've got the analyzer hooked up at home, but it's tough to get consistent connections to some of these pins with the goo that the factory put on 'em.

=====

Re: Does code59 work on 1227808

Posted by spanners - 10/10/2008 17:09

ive emailed my mate who has an 808 setup on his test bench and a good scope and stuff to see if he can help out he helped me with the \$58 when i was having a play round with it hes an ex TV repair man so hes got the good stuff.

=====

Re: Does code59 work on 1227808

Posted by blown-vp - 10/12/2008 11:07

im a friend of spanners.tried code59 on 808 ecu.if you short a-b of aldl connector it will flash codes on cel.tried a 10k resistor across a-b aldl no 160 baud data.put scope on pin 46 u8 txd with 10k resistor across aldl conn.5d code looked like a constant data signal.code59 still had a constant signal but different to 5d didnt look like a proper data signal.signal voltage 500mv peak to peak.looks like code59 wont output any data only flash codes on cel.the bin i tried was v18a165-2.hope this helps darren.

Re: Does code59 work on 1227808

Posted by VL400 - 10/12/2008 19:40

turbodig if you email me some source code i will take a look at it for you and also can test the code on the bench.

blownvp - the later code does not need a 10k resistor like \$5D, you must address the ECU with a data frame for it to respond.

=====

Re: Does code59 work on 1227808

Posted by Apples - 10/19/2008 16:00

I have been looking to be able run 20 psi boot on a 808 for some time.
I like to keep my 808 but may have to change to a 730. if unable to get code 59 running on a 808.
I have a VS V6 converted to 808 ecm and about to get two evo 3 turbos.
t700r4 trans about to go in a gemini coupe.

Apples

=====

Re: Does code59 work on 1227808

Posted by Sammy - 10/20/2008 23:10

twin turbo v6 in a gemini ... that should be a handful :) then again i can't talk, im putting a supercharged straight 6 in a gemini :)

=====

Re: Does code59 work on 1227808

Posted by djbrooksy05 - 10/21/2008 03:58

hey apples have are you a member of www.ozgemini.com if not check it out

=====

Re: Does code59 work on 1227808

Posted by antus - 11/20/2008 01:46

Hi guys,

Im another aussie who just found this site. I have a gemini running a twincam 2L under kalmaker on an '808 + max232. I have been hacking at assembler for about 15 years, mostly x86 but am also interested in the '808 and various radios that use hc11 processor boards. It sounds like code59 can do everything kalmaker can, and i'd be interested in swapping to it if it was working on an '808 / '165 ecu. I'd also be interested in helping code and debug. I do have prom burners, and a 150ms samples per second CRO. My kalmaker ECU is an '808 with the max232 mod, as well as one extra pin thats normally N/C but is connected to the SRAM board.

Ive picked up a compatible exhaust side flange for my engine, and intend to go 2 bar map and boost it up in 2009.

Now Ive read this thread i'll have to spend some time reading the rest of the forums and coming up to speed.

=====

Re: Does code59 work on 1227808

Posted by FishSoup2003 - 01/17/2009 15:27

I'm also another interested observer located in Aus. Any progress guys? Please update us all on any progress or thoughts to keep this important thread moving. :blink:

=====

Re:Does code59 work on 1227808

Posted by Apples - 01/18/2009 14:27

I was thinking of sending over one of my spare 1227808 but if they have a 1227165 to use for testing then I don't have to send them one.

I may have to send over a memcal for testing.

If it will run on a 1227165 and data logs ok then I can test it with a 1227808 with serial port.

I Like the idea of 8000 rpm mapping.

Apples.

=====

Re:Does code59 work on 1227808

Posted by turbodig - 01/18/2009 15:07

I've got some of the stuff kinda figured out, but I really need hardware to test against. It would help to have an '808, if somebody has one they can spare.

I can also send somebody over there a copy of the source, if someone is interested in working on it.

=====

Re:Does code59 work on 1227808

Posted by Apples - 01/19/2009 17:01

Turbodig if you can get your hands on a 165 which is the same as a 808 other than the high speed baud rate and different case style.

I know you can use a 808 in place of a 165 using the 165 memcal but don't get any high speed baud output.

The 808 with serial port gives you high speed baud output.

I have a spare 808 but would have to get a serial port kit fitted for it to be any good.

If you can get it working on a 165 it should work on a 808 with serial port.

I would love to help out if I can but have no idea of source code.

Apples.

=====

Re:Does code59 work on 1227808

Posted by j91z28d1n2o - 01/20/2009 14:05

just a thought, if dig doesn't have a 165 ecm and would like to. i just saw one for sale on the 3rd gen board for 30\$ with a v8 chip. someone could paypal him the 30\$ and have it shipped to dig for prob less than just shipping on a 808 over the pond.

\$30 165 ECU with 88 350 chip

<http://www.thirdgen.org/techboard/engine-drivetrain-parts-sale/507772-autoprom-ecus-fi-intakes.html>

=====

Re:Does code59 work on 1227808

Posted by Paul - 01/20/2009 15:45

Dig do you want me to pick up that 165 from that Thirdgen post?

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Re:Does code59 work on 1227808

Posted by turbodig - 01/21/2009 07:41

Already on it...

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Re:Does code59 work on 1227808

Posted by Paul - 01/21/2009 08:47

Let me know how much you pay for it and I will paypal you the money from the Code59 account.

=====

Re:Does code59 work on 1227808

Posted by turbodig - 01/21/2009 12:16

Waiting on how much the shipping is, then I'll have you Paypal the guy direct. No sense in paying the 3% twice.

=====

Re:Does code59 work on 1227808

Posted by fivetodrive - 01/22/2009 08:04

What were the ecm's I sent you dig? I thought I sent you a 7807 and a 7808... I get the dang numbers mixed up though...

=====

Re:Does code59 work on 1227808

Posted by turbodig - 01/22/2009 08:21

'707/708.

They are much different creatures from what I expected them to be. Maybe we'll learn something from the '165 that makes sense on those as well.

I'm really curious now about he Quad-4 cars... whether or not you could plug \$59 in and have it work.

=====

Re:Does code59 work on 1227808

Posted by j91z28d1n2o - 01/22/2009 09:25

what ecm does a quad 4 car have?

I was thinking it used 749's but sounds like I'm wrong lol.

what ecm's are you looking for? I'm about to hit a local junkyard for some random stuff this weekend. if you have a list of ecms you want and maybe what cars they are in. I can take a look around.

=====

Re:Does code59 work on 1227808

Posted by Paul - 01/22/2009 13:30

Here is what I found for the Berettas using as an ECM

2.2 liter.....'90-91...1227748
 '92-93...16134847
 '94-95...16191947
 '96.....16215830
2.3 liter.....'90-91...16198267
 '92-93...16146450
 '94.....16191947

I know the 2.3 is Quad 4.... I can't find what the OLDS 442 with Quad4 ran.....

Re:Does code59 work on 1227808

Posted by j91z28d1n2o - 01/22/2009 14:05

hmmm so any idea which one of those ecm's dig is looking for?

Re:Does code59 work on 1227808

Posted by Apples - 01/23/2009 03:02

I have uploaded a 808 VN V6 wiring zip file.
I have added a USA plug version as Holden used a non std ALDL plug.
It shows all the 808 pins used by Holden.
If I can help with other info please let me know.
Apples.
http://www.code59.org/images/fbfiles/files/808_VN_V6_Wiring.zip

Re:Does code59 work on 1227808

Posted by turbodig - 01/23/2009 17:59

j91z28d1n2o wrote:
hmmm so any idea which one of those ecm's dig is looking for?

I think that once I get the '165, I'll be good for a while.... until somebody comes up with something else. :) I've got 165 on the way.

'92-'93 diesel pickup/suburban/van trans control ecus are good pick-ups, if you find 'em. Sort of a factory-issue 4I60e/4I80e trans controller.

AUJP Memcals are valuable, so if you find 'em, grab 'em.

Big-block TBI units are popular, too.

Re:Does code59 work on 1227808

Posted by Sammy - 03/03/2009 03:34

wow i've missed alot since my last post :)

good to see you guys are still going hard at it!!

wish i could be more help with all this!

=====

Re:Does code59 work on 1227808

Posted by antus - 03/15/2009 04:12

Im still lurking, very interested in any progress made here :)

=====

Re:Does code59 work on 1227808

Posted by Apples - 04/14/2009 14:41

Im still lurking to, Interested in any progress made so far.:)

=====

Re:Does code59 work on 1227808

Posted by Apples - 05/14/2009 22:43

Hi guys just curious as to the progress of code 59 running on a 808/165
If I can help with anything please ask.

=====

Re:Does code59 work on 1227808

Posted by Paul - 05/15/2009 12:40

Dunno, I haven't heard anything from Dig. Hopefully he can chime in and let us know what is going on.

=====

Re:Does code59 work on 1227808

Posted by turbodig - 05/20/2009 07:48

The '165 I got doesn't appear to be working. Haven't really had much time to mess with it, as other things are taking priority.

Later,

Dig

=====

Re:Does code59 work on 1227808

Posted by antus - 12/29/2009 21:38

Just a heads up for anyone reading this thread that VL400 from www.delcohacking.net has created and released OSE12P. Its similar in features (and dare I say quality?) to code59, but is for Aussie Delco '808s.

<http://delcohacking.net/forums/viewtopic.php?f=27&t=356>

Thanks in advance to our brothers at code59 for letting me post this here.

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