

Your VIN Number:

VIN of Truck same year/model that has power fold:

1. For this feature to work, the truck must have power seats and the memory feature.
2. The trailer tow power fold mirrors get there folding power through the DSM drivers seat module.
3. The switches are not wired to the motors, they are wired to the drivers seat module (DSM).
4. The module would need to be programmed with as-built data from the same model and year that came equipped with powerfold.
5. You need a VIN number for a 2013 F150 that has all the options as yours, including powerfold.
6. Then the dealer needs to download as built data from the Ford website for that VIN.
7. Then the as-built data needs to be programmed to the DSM on your vehicle. This will turn on the powerfold capability of the DSM and the mirrors and switches just plug in to the existing harnesses.

1. If they are trying to program the DSM under normal module reprogramming it won't work. Module programming provides calibration file updates to the DSM, it does not change as built data. They also cannot use the automatic as built function in IDS either as it will just reload the original as built from the original vin. They need to accomplish 2 things. (1) get ids to think the module is blank by whatever means necessary. (pull fuse,disconnect module etc..) (2) manually enter as built into the DSM after the IDS thinks it is blank.
2. He should have no problems using the latest IDS release (92.02) and the VCM 2.
3. As it is now a single module part number can cover a wide array of vehicles and then the specific as built data is loaded to make the module unique for that particular vehicle. Its really no different then loading normal as built data into a module, just have to make the IDS think the module is blank and add as-built manually instead of automatically. If he is worried about the module getting corrupted all he has to do is perform a PMI on the DSM and it will restore the original as built data.
4. The FMCdealer PTS website is where he needs to go.
5. Enter the VIN and click on the as - built tab in the oasis dropdown.

The screenshot shows the Ford Professional Technician Society (PTS) website interface. At the top, there is a navigation bar with the Ford logo and the text 'Professional Technician Society'. Below this is a menu bar with various options: Vehicle ID, OASIS, TSBS, Workshop, Wiring, PC/ED, Service Tips, Owner Info, Upgrade/Mods, SLTS, and ToolBox. The OASIS dropdown menu is open, showing options: OASIS Home, As-Built (highlighted with a red arrow), and a 'Report a' button. The main content area displays vehicle information for a 2013 Ford F150, including the VIN, body style (4 DR ZX4 SEDAN - SE/SEL), engine (2.0L D/TEC 16V 160PS), and other specifications. A red arrow points from the 'As-Built' option in the dropdown menu to the text 'THIS IS AN EXAMPLE VIN' in red. At the bottom of the screenshot, there is a link: 'Click Here for Full Warranty History'.

6. [Report a Vehicle Concern](#) | [On-Line 1878](#)
7. They cannot add or change as built data to any of the other modules. Just the DSM. All other module as built data needs to be from the original VIN.

8. Have the tech perform a PMI on the DSM.
9. When asked to turn the key on leave it off and click the tick.
10. It might ask him several times and eventually he should get a message that says the module is blank. Once that message appears the following screens should allow him to enter as built manually. This is forcing as built.

DSM **744-01-01** F840 85

[Inst](#)

DSM **744-02-01** C00E

DSM **744-03-01** 2300 E153

**DSM AS BUILT DATA
FROM YOUR VIN**

DSM **744-04-01** 0050

DSM **744-05-01** 3842 16E1

DSM **744-06-01** 382A 0EC2

DSM **744-07-01** 382A 0EC3

DSM **744-08-01** 382A 0EC4

11. _____
12. 744-01-01 F840 85 should be changed to 744-01-01 FC40 89

Customer Example 1



Ford Mechanic: [Kenny Z.](#)

Hello my name is ***** and thanks for your question.

I'm not so sure I want to get involved in another one of these. But I wanted to at least respond to not leave you hanging. As-built data and module programming are two separate things. If they are trying to program the DSM under normal module reprogramming it won't work. Module programming provides calibration file updates to the DSM, it does not change as built data. They also cannot use the automatic as built function in IDS either as it will just reload the original as built from the original vin. They need to accomplish 2 things. (1) get ids to think the module is blank by whatever means necessary. (pull fuse, disconnect module etc..) (2) manually enter as built into the DSM after the IDS thinks it is blank. I am not able to get screen shots etc...

Thanks Kenny for getting back to me. I hope you don't give up on this and willing to pay extra for your time. I know in the past you stated you are in the west and if you happen to recommend a dealership with a tech that may have as much experience, that would be great as I am in San Jose, Ca.

I will talk to my tech at Frontier Ford at Stevens Creek in San Jose to see if he can follow the steps to fool it into thinking it is blank. Please give me a few days as I have to schedule an appointment with the dealership.



Ford Mechanic: [Kenny Z.](#)

Unfortunately I don't know any techs in that area. See if they can get it to show blank. Hopefully there is a tech there that can think on his feet and make it happen. It is definitely possible as you can see in the post you referenced, that customer found a tech that was able to change the as built data in the DSM successfully.

Hi Kenny, thanks for your advice so far. I printed out your suggestions to him in your original reply and spoke to the tech again. He understands everything you want him to do and will try it again on the vehicle. He originally didn't want to go beyond what the regular procedures were in using "As Built" as he didn't want to be responsible if the DSM starts "failing" all of a sudden for doing non Ford "approved" things. One question he had was, does it matter whether what version of VCM he has or not and software version? He said there is the software version and the v1 and v2 for VCM. He stated sometimes Ford removes features to do things while adding features. He will be working on it tomorrow. Will let you know of the update. Thanks again.



Ford Mechanic: [Kenny Z.](#)

He should have no problems using the latest IDS release (92.02) and the VCM 2. Even though Ford changes things all the time so long as their modules remain generic and have as built data for year and model / option content then they will always remain programmable, I doubt that will ever change otherwise they would need to make specific modules for each and every build level out there. As it is now a single module part number can cover a wide array of vehicles and then the specific as built data is loaded to make the module unique for that particular vehicle. Its really no different then loading normal as built data into a module, just have to make the IDS think the module is blank and add as-built manually instead of automatically. If he is worried about the module getting corrupted all he has to do is perform a PMI on the DSM and it will restore the original as built data. No other part of the module software can be affected as the IDS cannot access it and it is stored in rom memory.

Hi Kenny, thanks again for your insight. The tech unplugged the fuse and harness after connecting the PMI.. and it seems the newer software version complains that it cannot connect to the DSM and to check power, etc... and asks him to check other things as opposed to seeing it as a blank. Out of desperation, i bought another DSM module today for my model year and he is going to attempt to connect it and re-program it with another VIN to see if he can get it going. If you are around or checking this website, hopefully, I can ping you for any additional advice. Thanks for bearing through this.



Ford Mechanic: [Kenny Z.](#)

I hope he knew to leave the key off also when IDS prompted him to turn the key on after the pmi procedure. Usually if you leave the key off and keep hitting the tick the IDS will say it has found a fault and then get you to the page where it asks to manually enter as built. Let me know how the new DSM install goes.

Hi Kenny, really weird... so we plugged in the new DSM module and did nothing. Started the car and the mirrors worked right away. No programming or anything. I know wiring harness is pre-wired, and new the old DSM module didn't have the feature. I ordered part FMCBB5Z14C708A. Going to try driving it a couple days to make sure all my power seats, mirrors, and everything else is working.



Ford Mechanic: [Kenny Z.](#)

That is strange, I wonder if the old dsm actually had an issue. Was the module ordered under the vehicle VIN or the one you were trying to force the as built from?

The tech and I walked to the parts department, just told him:

1. 2011

2. F-150 with seat memory

He pulled up the seat memory choices. He asked for a VIN, but the tech said to pull up all the parts available for the DSM for 2011. There were 3.

1. Less Memory

2. Memory and something about level 3

3. Memory and something about level 4

Option #2 and #3 had the same part number, so it didn't really matter. Parts and the tech had no clue about what level 3 and 4 were.

What I didn't understand is, how these options be enabled by default w/o programming anything. The tech didn't want to hook it up against the computer afraid that the system would complain about a module not programmed with the same VIN, etc.... He didn't want to muck with it further since it was working.

The AC seats work, mirrors fold, the mirror glass moves and can be adjusted... Just have to test it by moving the seat and mirrors around to see if it restores back to the same position. Will test that later tonight.



The memory feature on the service replacement modules has to come with the powerfold functionality preprogrammed, thats the only explanation for that. Being able to force as built into a module that does not have the powerfold functionality programmed is what saves the expense of having to replace the module. Service replacement modules do not have the exact functionality programmed as the modules being installed on the assembly line using as built data.

Hi Kenny, I think everything is still working. I move the mirrors and seat and they return back to the original position. When removing the key from the ignition, the seat slides back still for easy exit and entry. I tested the heated and cooled seats and it seems to work too. Are there any additional things the DSM is tied too?



Ford Mechanic: [Kenny Z.](#)

Sounds like everything is working that the DSM controls.

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Customer Example 2



Ford Mechanic: [Kenny Z.](#)

He is wrong. The FMCdealer PTS website is where he needs to go. Enter the VIN and click on the as - built tab in the oasis dropdown. Ask to speak to a tech and bypass the advisor, most of them are not technically savvy - thats why their service advisors. Click on screen shot below, this is proof it can be done as long as you have a VIN.

The screenshot shows the Professional Technician Society (PTS) website interface. The navigation bar includes tabs for Vehicle ID, OASIS, TSBS, Workshop, Wiring, PC/ED, Service Tips, Owner Info, Upgrade/Mods, SLTS, and ToolBox. The OASIS dropdown menu is open, showing options like OASIS Home, As-Built, and various diagnostic tools. The main content area displays vehicle details for a 2012 Ford, including body style (4 DR ZX4 SEDAN - SE/SEL), engine (2.0L D/TEC 16V 160PS), and transmission (6 HVBoM). A red arrow points to the 'As-Built' tab in the OASIS dropdown. A red text overlay reads 'THIS IS AN EXAMPLE VIN'.

I finally got the dealer to try to load a different VIN in to the dsm- They said that when they did that all of the lights on the dash lit up. Is there anything I can tell them to try?



Ford Mechanic: [Kenny Z.](#)

Was this during the programming or were they lit up permanently after the programming? They cannot add or change as built data to any of the other modules. Just the DSM. All other module as built data needs to be from the original VIN. Are they getting any VID block error codes or mismatch when they run continuous self test on all modules at once?

So they wanted to confirm that this should be loaded in to the dsm rather than the bcm.
And if so, I should ask them to only load the data for the dsm?



Ford Mechanic: [Kenny Z.](#)
Thats correct, just the DSM.

So I just got off the phone with the service tech- and he now tells me that my truck does not have a dsm. Is that possible? He says that I only have 2 of the 3 modules under the seat.

My VIN is 1FTFW1E67BFA29801



Ford Mechanic: [Kenny Z.](#)
He shouldn't even need to look under the seat, it will show up on the IDS network test.
Here is the bill of material for your VIN with the DSM shown.

Kenny- I am standing in the shop with these guys and they have the computer plugged in to the car. When they go to as built the dsm does not show up in the menu. Any thoughts?



Ford Mechanic: [Kenny Z.](#)
If they run the network test does the DSM show pass or fail, or is it listed as an optional module? Sorry for the delay I am very buried at work today

When they ran the test everything passed. But it was not listed in the "as built" tab.

When we compared what you printed for dsm specifaications and what they downloaded from the example vin there is one line that is different which I think needs to be loaded, we just cant get to that screen.



Ford Mechanic: [Kenny Z.](#)

Was the DSM listed in the modules that passed?

Have the tech perform a PMI on the DSM. When asked to turn the key on leave it off and click the tick. It might ask him several times and eventually he should get a message that says the module is blank. Once that message appears the following screens should allow him to enter as built manually. This is forcing as built. The tech should really know this stuff.....no offense but these questions are showing a lack of experience

They tried this a couple of times and it does not come up as "blank" He says that it goes to a screen that says successfully loaded.

Please advise.

Thanks



Ford Mechanic: [Kenny Z.](#)

With the key off? Not possible.

I am going to go there again tomorrow and go through the motions with them. If we can not get it to go- Do you have any recommendations for dealers in central New Jersey? Are you close by?

Thanks again for all of the advice so far.



Ford Mechanic: [Kenny Z.](#)

Sorry no, I am on the west coast. If you are calling around ask if they have a tech that is very skilled in module programming, network diagnosis and network communication issues.

So I went one last time and did the procedure with the tech, like you suggested and it did reprogram automatically with the key in the off position. Again- I was only observing- but that is what it looked like. It did not give the possibility to force the as built data.

Now before I go to the next dealer I was wondering if you could confirm the line in the dsm that needs changing-

The example vin has the following code difference (in line 1) in the DSM-

Mine is 744-01-01 F840 85

Example 744-01-01 FC40 89

All of the other lines are the same.

Do you think that will be the one that will control the mirrors?

Thanks

I will start calling other dealerships and asking for the programming tech.

Paul



Ford Mechanic: [Kenny Z.](#)

Ford does not let us know what line controls what functions, but I am certain that is the difference. It makes no sense that the scanner can reprogram the module with the key off. The scanner should not be able to access the module with it powered down, Maybe the module is on the accessory delay circuit and needs time to power down. worst case the module can be disconnected at the point of performing the PMI, which should certainly make the scanner think the module is blank, at which point the as built data should be able to be manually entered. Again, any good programming tech should be able to do all of this and think on their feet to get this to work.

Kenny-

It worked! I went to another dealer and they were able to get it programmed. The mirrors are now folding in and out.

Thanks for all of your help on this.



Ford Mechanic: [Kenny Z.](#)

Your welcome. I knew it could be done just needed the right tech.

Have a nice weekend.

Kenny

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