



## OVERVIEW

PART NUMBER  
D440-16xx-xxx

APPLICATION:  
Various -- see chart below

Congratulations for being selective enough to use a DINANTRONICS Performance Tuner. We have spent many hours developing this system to assure that you will receive maximum performance and durability with minimum difficulty in installation.

Please take the time to read these instructions thoroughly before proceeding. When performing the installation, read the entire numbered instruction before working on the car. If you feel that you do not have the requisite skill, please arrange for a qualified repair facility to perform the installation.

### **\*\* WARNING \*\***

**The DINANTRONICS ECU, harness, and software are designed for use in specific applications as detailed in the chart below. Do not install this product into a vehicle not listed for the specific ECU & software you have. Damage will occur if this kit is misapplied!**

**As indicated in the DINAN product catalog, certain DINANTRONICS software products were designed for use with additional high performance hardware components including, but not limited to, Free-Flow Exhaust systems, cold air intake systems, and intercooler systems. Use of such DINANTRONICS software products without the required associated hardware components voids any and all warranties.**

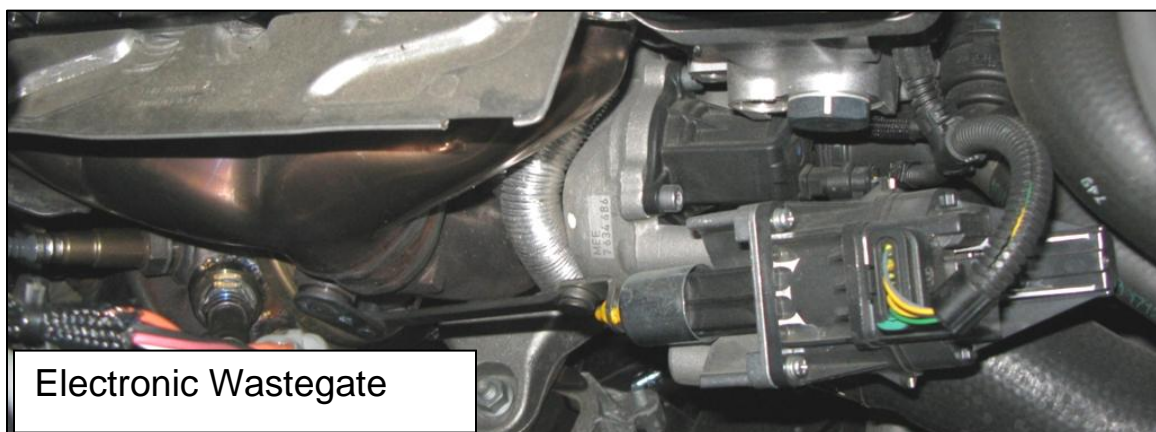
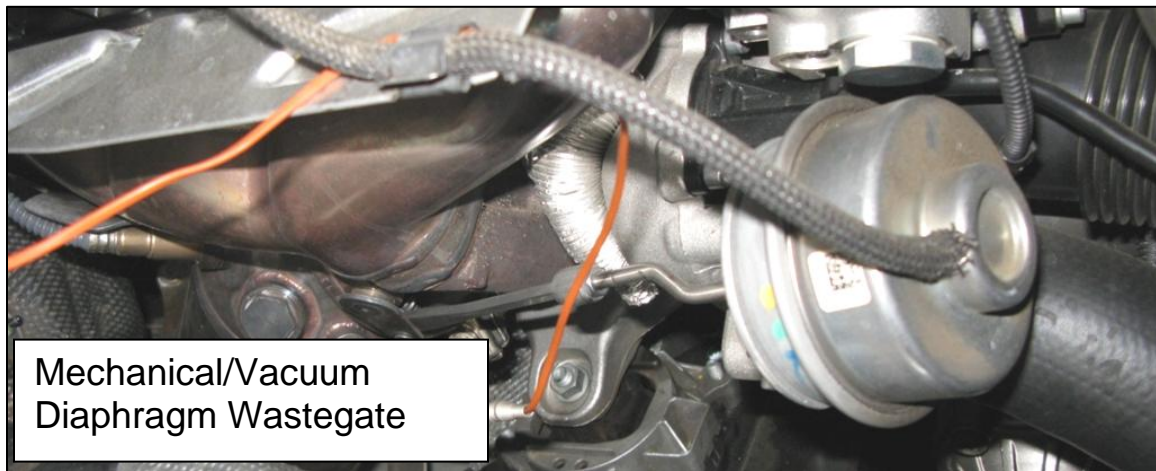
## **\*\* IDENTIFY TYPE OF WASTEGATE \*\***

To ensure you have the correct kit for your vehicle, you must first identify the type of wastegate installed in your car.

Most BMW turbo engines are equipped with two styles of wastegates: mechanical diaphragm vs. electronic. The two wastegates styles require different software. Before installing DINANTRONICS, you must determine the type of wastegate attached to the turbocharger(s) on the vehicle. Use the following illustrations as a guide.

### **Check Wastegate on N20/N26 4-cylinder engines:**

Look at the turbo to determine which type of wastegate is installed on your car. Look for a vacuum hose or electric wire connector.

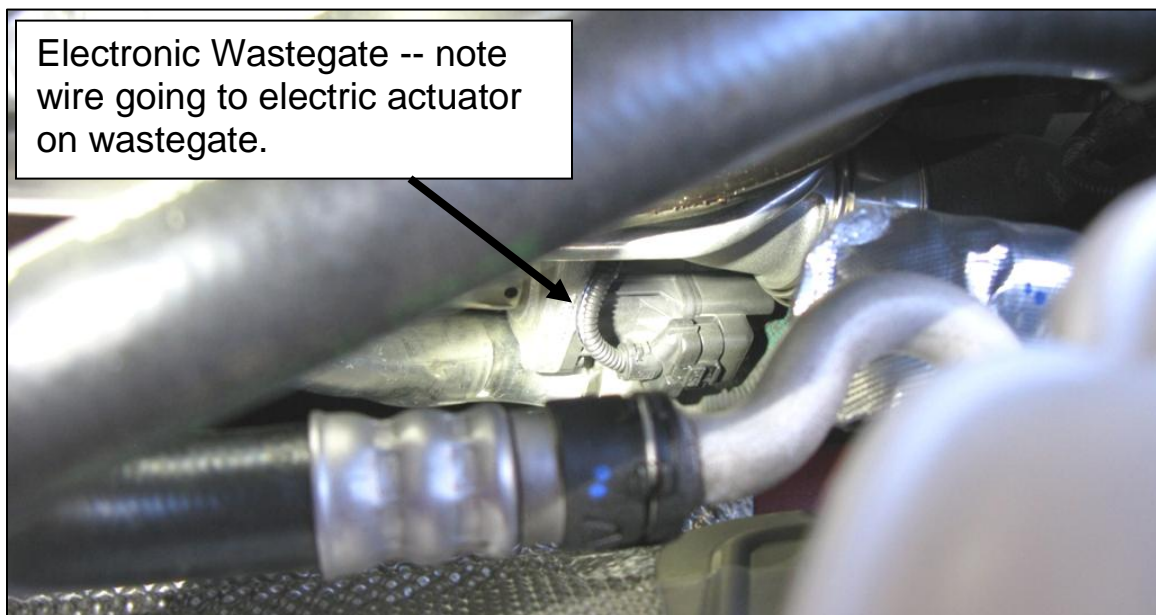
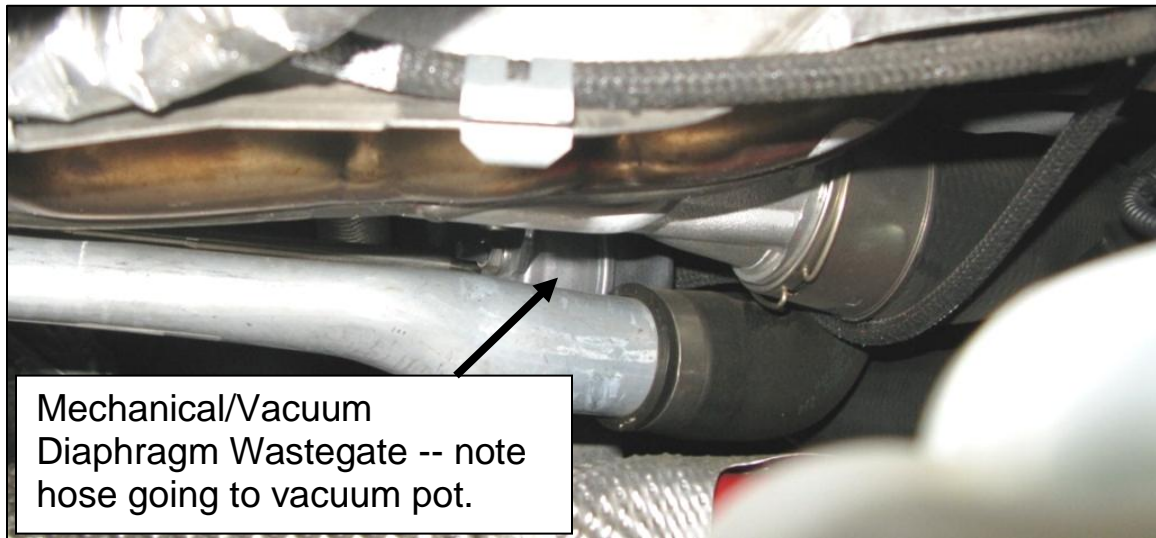


**Wastegate on S55 6-cylinder engines (M3 & M4):**

The S55 engine in the F8x M3 & M4 were only equipped with an electronic wastegates, so no visual identification is necessary.

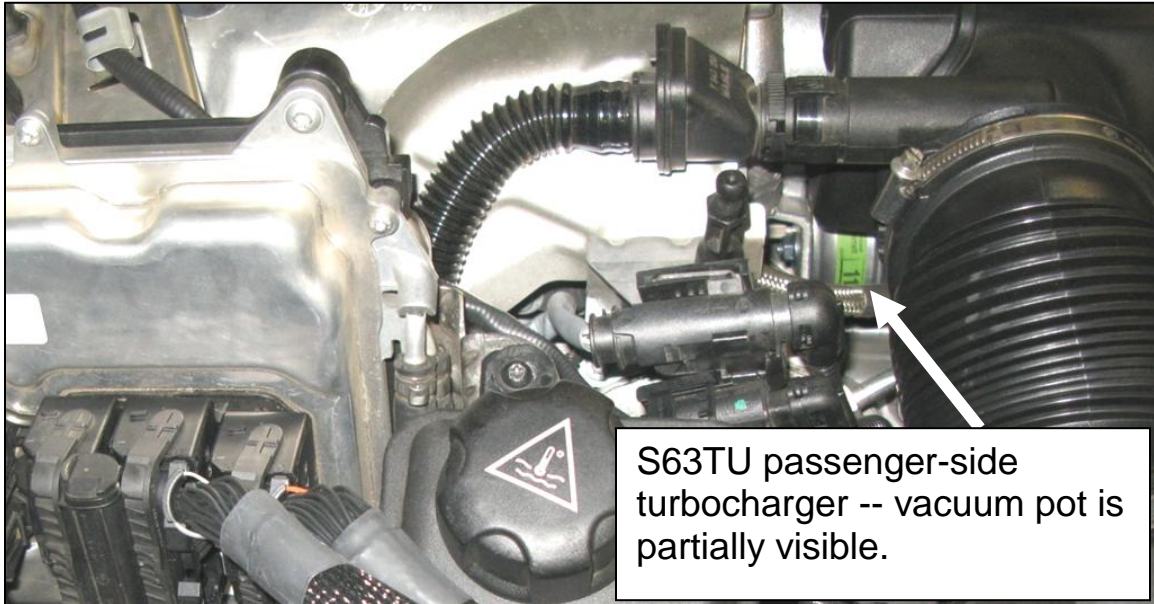
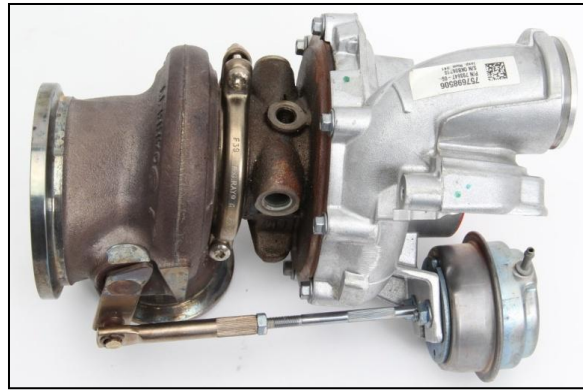
**Check Wastegate on N55 6-cylinder engines:**

Look at the turbo to determine which type of wastegate is installed on your car.  
Look for a vacuum hose or electric wire connector.

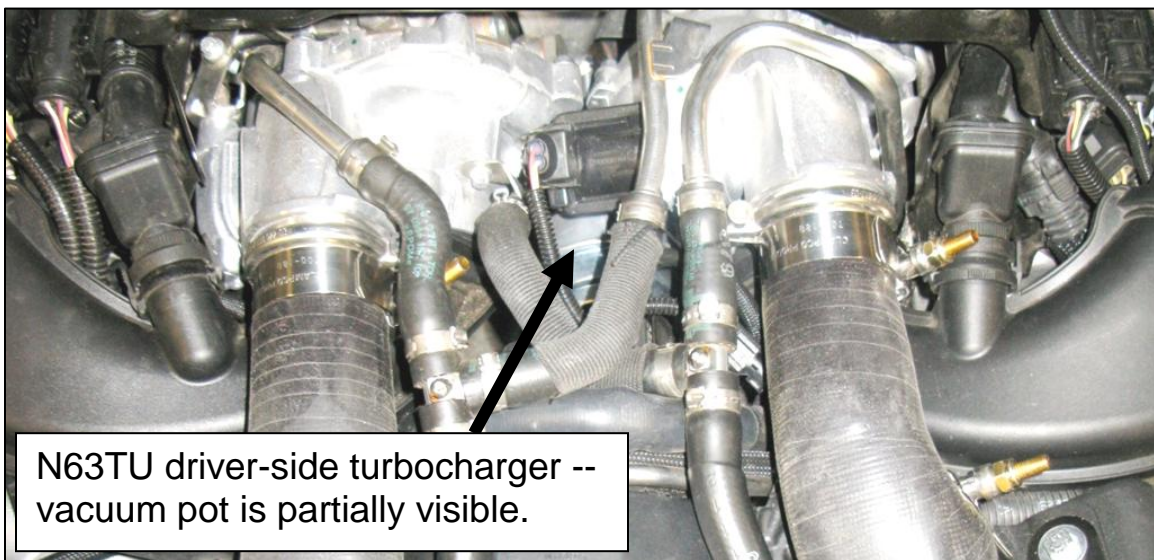


**Check Wastegate on N63TU & S63  
8-cylinder engines:**

In the photos below, a portion of the vacuum pot that actuates the Wastegate is visible. If your turbochargers have electronic wastegates, please stop and contact Dinan.



S63TU passenger-side turbocharger -- vacuum pot is partially visible.



N63TU driver-side turbocharger -- vacuum pot is partially visible.

## **\*\* CONFIRM CORRECT KIT FOR YOUR VEHICLE \*\***

Examine the kit part number shown on the outside of the packaging. See chart at the end of this section and confirm you have the correct kit for your application. Pay particular attention to the type of wastegate (vacuum vs. electric). Do not proceed if you do not have the correct kit for your application! Contact Dinan if you have any questions.

## **\*\* PREPARE VEHICLE FOR INSTALLATION \*\***

During DINANTRONICS installation, the engine computer (ECU) will be disconnected from the vehicle. If the ECU is awake when it is disconnected, faults may be stored and the check engine light could be illuminated after installation. The vehicle may not function properly. To prevent this occurrence, it is essential to prepare the car correctly per the following procedure:

1. Park vehicle at the location where you will be installing DINANTRONICS.
2. Determine the range of the keys.
  - Step away from the vehicle and attempt to lock or unlock the car using the remote.
  - Continue to move away until the car no longer responds to the key. This is the range of the key.
  - During DINANTRONICS installation, ALL keys must be completely outside this range. If a key remains within range of the car, the vehicle may respond to the key and awaken unexpectedly, which could result in a stored fault and check engine light.
3. Unlock the car and open both the hood and trunk.
4. Close all the doors.
5. Move all keys beyond the range of the car.
6. After approximately one minute, you can hear the electronics in the engine compartment power down. This indicates that the electronics have gone to

sleep. If you should miss this event, you can wait five minutes, which ensures that all the electronics are asleep.

7. Disconnect negative terminal of battery.
8. Install the DINANTRONICS harness and ECU per the separate instructions. Note that harness installation in vehicles (such as the X1, X3, X4, X5, X6, and Z4) are covered in a supplement.
9. Reconnect negative battery cable.
10. Enjoy!

\*\* Remember to submit a completed registration form to record your purchase with Dinan!

### **DINANTRONICS PERFORMANCE TUNER KIT APPLICATIONS**

<b>Chassis</b>	<b>Engine</b>	<b>Vehicle</b>	<b>Wastegate</b>	<b>Stage 1 kit</b>	<b>Stage 2 kit</b>	<b>Stage 3 kit</b>
F22	N20	2014-2016 228i Coupe	Electric	D440-1632-ST1		D440-1632-ST3
F22	N20	2015-2016 228i xDrive	Electric	D440-1632-ST1		D440-1632-ST3
F30	N20	2013-16 320i	Electric	D440-1646-ST1		
F30	N20	2013-2016 320i xDrive	Electric	D440-1646-ST1		
F30	N20	2012-2016 328i	Vacuum	D440-1631-ST1		D440-1631-ST3
F30	N20	2012-2016 328i	Electric	D440-1632-ST1		D440-1632-ST3
F30	N20	2013-2016 328i xDrive	Vacuum	D440-1631-ST1		D440-1631-ST3
F30	N20	2013-2016 328i xDrive	Electric	D440-1632-ST1		D440-1632-ST3
F31	N20	2014-2016 328i xDrive Sports Wagon	Electric	D440-1632-ST1		D440-1632-ST3
F34	N20	2014-2016 328i xDrive Gran Turismo	Electric	D440-1632-ST1		D440-1632-ST3
F33	N20	2014-2016 428i Convertible	Electric	D440-1632-ST1		
F32	N20	2014-2016 428i Coupe	Electric	D440-1632-ST1		D440-1632-ST3
F36	N20	2015-2016 428i Gran Coupe	Electric	D440-1632-ST1		D440-1632-ST3
F32	N20	2014-2016 428i xDrive Coupe	Electric	D440-1632-ST1		D440-1632-ST3
F33	N20	2015-2016 428i xDrive Convertible	Electric	D440-1632-ST1		
F36	N20	2015-2016 428i xDrive Gran Coupe	Electric	D440-1632-ST1		D440-1632-ST3
F10	N20	2012-2016 528i	Vacuum	D440-1631-ST1		
F10	N20	2012-2016 528i	Electric	D440-1632-ST1		
F10	N20	2012-2016 528i xDrive	Vacuum	D440-1631-ST1		
F10	N20	2012-2016 528i xDrive	Electric	D440-1632-ST1		
E84	N20	2013-2015 X1 sDrive28i	Electric	D440-1632-ST1		
E84	N20	2013-2015 X1 xDrive28i	Vacuum	D440-1631-ST1		
E84	N20	2013-2015 X1 xDrive28i	Electric	D440-1632-ST1		
F25	N20	2014-2016 X3 sDrive 28i	Electric	D440-1632-ST1		
F25	N20	2013-2016 X3 xDrive 28i	Vacuum	D440-1631-ST1		
F25	N20	2013-2016 X3 xDrive 28i	Electric	D440-1632-ST1		

<b>Chassis</b>	<b>Engine</b>	<b>Vehicle</b>	<b>Wastegate</b>	<b>Stage 1 kit</b>	<b>Stage 2 kit</b>	<b>Stage 3 kit</b>
F26	N20	2015-2016 X4 xDrive 28i	Electric	D440-1632-ST1		
E89	N20	2012-2016 Z4 sDrive 28i Roadster	Vacuum	D440-1631-ST1		
E89	N20	2012-2016 Z4 sDrive 28i Roadster	Electric	D440-1632-ST1		
F22	N26	2014-2016 228i Coupe SULEV	Electric	D440-1633-ST1		
F22	N26	2015-2016 228i xDrive Coupe SULEV	Electric	D440-1633-ST1		
F30	N26	2012-2016 328i Sedan SULEV	Electric	D440-1633-ST1		
F30	N26	2013-2016 328i xDrive SULEV	Electric	D440-1633-ST1		
F34	N26	2016 328i xDrive Gran Turismo SULEV	Electric	D440-1633-ST1		
F32	N26	2014-2016 428i Coupe SULEV	Electric	D440-1633-ST1		
F33	N26	2014-2016 428i Convertible SULEV	Electric	D440-1633-ST1		
F36	N26	2015-2016 428i Gran Coupe SULEV	Electric	D440-1633-ST1		
F32	N26	2014-2016 428i xDrive Coupe SULEV	Electric	D440-1633-ST1		
F33	N26	2015-2016 428i xDrive Convertible SULEV	Electric	D440-1633-ST1		
F36	N26	2015-2016 428i xDrive Gran Coupe SULEV	Electric	D440-1633-ST1		
F30	N55	2012-2015 335i Sedan	Vacuum	D440-1638-ST1	D440-1638-ST2	D440-1638-ST3
F30	N55	2012-2015 335i Sedan	Electric	D440-1639-ST1	D440-1639-ST2	D440-1639-ST3
F30	N55	2012-2015 335i Sedan (w/ M-Perf)	Vacuum	D440-1640-ST1	D440-1640-ST2	D440-1640-ST3
F30	N55	2012-2015 335i Sedan (w/ M-Perf)	Electric	D440-1641-ST1	D440-1641-ST2	D440-1641-ST3
F30	N55	2013-2015 335i xDrive Sedan	Vacuum	D440-1638-ST1	D440-1638-ST2	D440-1638-ST3
F30	N55	2013-2015 335i xDrive Sedan	Electric	D440-1639-ST1	D440-1639-ST2	D440-1639-ST3
F30	N55	2013-2015 335i xDrive Sedan (w/ M-Perf)	Vacuum	D440-1640-ST1	D440-1640-ST2	D440-1640-ST3
F30	N55	2013-2015 335i xDrive Sedan (w/ M-Perf)	Electric	D440-1641-ST1	D440-1641-ST2	D440-1641-ST3
F34	N55	2014-2015 335i xDrive Gran Turismo	Electric	D440-1639-ST1	D440-1639-ST2	D440-1639-ST3
F32	N55	2014-2016 435i Coupe	Electric	D440-1639-ST1	D440-1639-ST2	D440-1639-ST3
F32	N55	2014-2016 435i Coupe (w/ M-Perf)	Electric	D440-1641-ST1	D440-1641-ST2	D440-1641-ST3
F33	N55	2014-2016 435i Convertible	Electric	D440-1639-ST1	D440-1639-ST2	D440-1639-ST3
F33	N55	2014-2016 435i Convertible (w/ M-Perf)	Electric	D440-1641-ST1	D440-1641-ST2	D440-1641-ST3
F32	N55	2014-2016 435i xDrive Coupe	Electric	D440-1639-ST1	D440-1639-ST2	D440-1639-ST3
F32	N55	2014-2016 435i xDrive Coupe (w/ M-Perf)	Electric	D440-1641-ST1	D440-1641-ST2	D440-1641-ST3
F33	N55	2014-2016 435i xDrive Convertible	Electric	D440-1639-ST1	D440-1639-ST2	D440-1639-ST3
F33	N55	2014-2016 435i xDrive Convertible (w/ M-Perf)	Electric	D440-1641-ST1	D440-1641-ST2	D440-1641-ST3
F36	N55	2014-2016 435i Gran Coupe	Electric	D440-1639-ST1	D440-1639-ST2	D440-1639-ST3
F36	N55	2014-2016 435i Gran Coupe (w/ M-Perf)	Electric	D440-1641-ST1	D440-1641-ST2	D440-1641-ST3
F36	N55	2015-2016 435i xDrive Gran Coupe	Electric	D440-1639-ST1	D440-1639-ST2	D440-1639-ST3
F36	N55	2015-2016 435i xDrive Gran Coupe (w/ M-Perf)	Electric	D440-1641-ST1	D440-1641-ST2	D440-1641-ST3
F10	N55	2011-2016 535i Sedan	Vacuum	D440-1638-ST1		
F10	N55	2011-2016 535i Sedan	Electric	D440-1639-ST1		
F10	N55	2011-2016 535i Sedan (w/ M-Perf)	Electric	D440-1641-ST1		
F07	N55	2011-2016 535i Gran Turismo	Vacuum	D440-1638-ST1		
F07	N55	2011-2016 535i Gran Turismo	Electric	D440-1639-ST1		
F10	N55	2011-2016 535i xDrive Sedan	Vacuum	D440-1638-ST1		
F10	N55	2011-2016 535i xDrive Sedan	Electric	D440-1639-ST1		
F10	N55	2011-2016 535i xDrive Sedan (w/ M-Perf)	Electric	D440-1641-ST1		

<b>Chassis</b>	<b>Engine</b>	<b>Vehicle</b>	<b>Wastegate</b>	<b>Stage 1 kit</b>	<b>Stage 2 kit</b>	<b>Stage 3 kit</b>
F07	N55	2011-2016 535i xDrive Gran Turismo	Vacuum	D440-1638-ST1		
F07	N55	2011-2016 535i xDrive Gran Turismo	Electric	D440-1639-ST1		
F12	N55	2012-2016 640i Convertible	Vacuum	D440-1642-ST1		
F12	N55	2012-2016 640i Convertible	Electric	D440-1643-ST1		
F13	N55	2012-2016 640i Coupe	Vacuum	D440-1642-ST1		
F13	N55	2012-2016 640i Coupe	Electric	D440-1643-ST1		
F06	N55	2013-2016 640i Gran Coupe	Vacuum	D440-1642-ST1		
F06	N55	2013-2016 640i Gran Coupe	Electric	D440-1643-ST1		
F12	N55	2014-2016 640i xDrive Convertible	Vacuum	D440-1642-ST1		
F12	N55	2014-2016 640i xDrive Convertible	Electric	D440-1643-ST1		
F13	N55	2014-2016 640i xDrive Coupe	Vacuum	D440-1642-ST1		
F13	N55	2014-2016 640i xDrive Coupe	Electric	D440-1643-ST1		
F06	N55	2014-2016 640i xDrive Gran Coupe	Electric	D440-1643-ST1		
F02	N55	2013-2015 740Li	Vacuum	D440-1642-ST1		
F02	N55	2013-2015 740Li	Electric	D440-1643-ST1		
F02	N55	2013-2015 740Li xDrive	Vacuum	D440-1642-ST1		
F02	N55	2013-2015 740Li xDrive	Electric	D440-1643-ST1		
F01	N55	2013-2015 740i	Vacuum	D440-1642-ST1		
F01	N55	2013-2015 740i	Electric	D440-1643-ST1		
F22	N55	2014-2016 M235i Coupe	Electric	D440-1641-ST1	D440-1641-ST2	D440-1641-ST3
F22	N55	2015-2016 M235i xDrive Coupe	Electric	D440-1641-ST1	D440-1641-ST2	D440-1641-ST3
F87	N55	2016 M2 Coupe	Electric	D440-1649-ST1	D440-1649-ST2	
F25	N55	2013-2016 X3 xDrive 35i	Vacuum	D440-1638X-ST1		
F25	N55	2013-2016 X3 xDrive 35i	Electric	D440-1639X-ST1		
F26	N55	2015-2016 X4 xDrive 35i	Vacuum	D440-1638X-ST1		
F26	N55	2015-2016 X4 xDrive 35i	Electric	D440-1639X-ST1		
F15	N55	2015-2016 X5 sDrive 35i	Electric	D440-1639X-ST1		
F15	N55	2015-2016 X5 sDrive 35i (w/ M-Perf)	Electric	D440-1641X-ST1		
F15	N55	2015-2016 X5 xDrive 35i	Electric	D440-1639X-ST1		
F15	N55	2015-2016 X5 xDrive 35i (w/ M-Perf)	Electric	D440-1641X-ST1		
F16	N55	2015-2016 X6 sDrive 35i	Electric	D440-1639X-ST1		
F16	N55	2015-2016 X6 sDrive 35i (w/ M-Perf)	Electric	D440-1641X-ST1		
F16	N55	2015-2016 X6 xDrive 35i	Electric	D440-1639X-ST1		
F16	N55	2015-2016 X6 xDrive 35i (w/ M-Perf)	Electric	D440-1641X-ST1		
F10	N63TU	2014-2016 550i Sedan	Vacuum	D440-1634-ST1	D440-1634-ST2	D440-1634-ST3
F07	N63TU	2013-2016 550i Gran Turismo	Vacuum	D440-1634-ST1	D440-1634-ST2	D440-1634-ST3
F10	N63TU	2014-2016 550i xDrive Sedan	Vacuum	D440-1634-ST1	D440-1634-ST2	D440-1634-ST3
F07	N63TU	2013-2016 550i xDrive Gran Turismo	Vacuum	D440-1634-ST1	D440-1634-ST2	D440-1634-ST3
F12	N63TU	2013-2016 650i Convertible	Vacuum	D440-1634-ST1		D440-1634-ST3
F13	N63TU	2013-2016 650i Coupe	Vacuum	D440-1634-ST1		D440-1634-ST3
F06	N63TU	2013-2016 650i Gran Coupe	Vacuum	D440-1634-ST1		D440-1634-ST3
F12	N63TU	2013-2016 650i xDrive Convertible	Vacuum	D440-1634-ST1		D440-1634-ST3
F13	N63TU	2013-2016 650i xDrive Coupe	Vacuum	D440-1634-ST1		D440-1634-ST3



<b>Chassis</b>	<b>Engine</b>	<b>Vehicle</b>	<b>Wastegate</b>	<b>Stage 1 kit</b>	<b>Stage 2 kit</b>	<b>Stage 3 kit</b>
F06	N63TU	2013-2016 650i xDrive Gran Coupe	Vacuum	D440-1634-ST1		D440-1634-ST3
F01	N63TU	2013-2015 750i	Vacuum	D440-1634-ST1	D440-1634-ST2	D440-1634-ST3
F02	N63TU	2013-2015 750Li	Vacuum	D440-1634-ST1	D440-1634-ST2	D440-1634-ST3
F01	N63TU	2013-2015 750i xDrive	Vacuum	D440-1634-ST1	D440-1634-ST2	D440-1634-ST3
F02	N63TU	2013-2015 750Li xDrive	Vacuum	D440-1634-ST1	D440-1634-ST2	D440-1634-ST3
F01	N63TU	2013-2015 Alpina B7	Vacuum	D440-1635-ST1	D440-1635-ST2	
F02	N63TU	2013-2015 Alpina B7 LWB	Vacuum	D440-1635-ST1	D440-1635-ST2	
F01	N63TU	2013-2015 Alpina B7 xDrive	Vacuum	D440-1635-ST1	D440-1635-ST2	
F02	N63TU	2013-2015 Alpina B7 xDrive LWB	Vacuum	D440-1635-ST1	D440-1635-ST2	
F06	N63TU	2015-2016 Alpina B6 xDrive Gran Coupe	Vacuum	D440-1635-ST1		
F15	N63TU	2015-2016 X5 xDrive 50i	Vacuum	D440-1634X-ST1		
F85	S63TU	2015-2016 X5 M	Vacuum	D440-1647-ST1	D440-1647-ST2	
F16	N63TU	2015-2016 X6 xDrive 50i	Vacuum	D440-1634X-ST1		
F86	S63TU	2015-2016 X6 M	Vacuum	D440-1647-ST1	D440-1647-ST2	
F80	S55	2015-2016 M3 Sedan	Electric	D440-1644-ST1	D440-1644-ST2	D440-1644-ST3
F80	S55	2015-2016 M3 Sedan Competition	Electric	D440-1644C-ST1	D440-1644C-ST2	D440-1644C-ST3
F82	S55	2015-2016 M4 Coupe	Electric	D440-1644-ST1	D440-1644-ST2	D440-1644-ST3
F82	S55	2015-2016 M4 Coupe Competition	Electric	D440-1644C-ST1	D440-1644C-ST2	D440-1644C-ST3
F83	S55	2015-2016 M4 Convertible	Electric	D440-1644-ST1	D440-1644-ST2	D440-1644-ST3
F83	S55	2015-2016 M4 Convertible Competition	Electric	D440-1644C-ST1	D440-1644C-ST2	D440-1644C-ST3
F10	S63TU	2013-2016 M5	Vacuum	D440-1636-ST1	D440-1636-ST2	
F10	S63TU	2014-2016 M5 Competition	Vacuum	D440-1637-ST1	D440-1637-ST2	
F12	S63TU	2013-2016 M6 Convertible	Vacuum	D440-1636-ST1	D440-1636-ST2	
F12	S63TU	2014-2016 M6 Convertible Competition	Vacuum	D440-1637-ST1	D440-1637-ST2	
F13	S63TU	2013-2016 M6 Coupe	Vacuum	D440-1636-ST1	D440-1636-ST2	
F13	S63TU	2014-2016 M6 Coupe Competition	Vacuum	D440-1637-ST1	D440-1637-ST2	
F06	S63TU	2014-2016 M6 Gran Coupe	Vacuum	D440-1636-ST1	D440-1636-ST2	
F06	S63TU	2014-2016 M6 Gran Coupe Competition	Vacuum	D440-1637-ST1	D440-1637-ST2	
F10	S63TU	2015 M5 30th Anniversary Edition	Vacuum	D440-1636-ST1	D440-1636-ST2	
F22	B58	2017 M240i Coupe	Electric	D440-D830TM1		
F22	B58	2017 M240i xDrive	Electric	D440-D830TM1		
F23	B58	2017 M240i Convertible	Electric	D440-D830TM1		
F23	B58	2017 M240i xDrive Convertible	Electric	D440-D830TM1		
F30	B58	2016-2017 340i Sedan	Electric	D440-D830T1		
F30	B58	2016-2017 340i xDrive Sedan	Electric	D440-D830T1		
F34	B58	2017 340i xDrive Gran Turismo	Electric	D440-D830T1		
F32	B58	2017 440i Coupe	Electric			
F32	B58	2017 440i xDrive Coupe	Electric			
F33	B58	2017 440i Convertible	Electric			
F33	B58	2017 440i xDrive Convertible	Electric			
F36	B58	2017 440i Gran Coupe	Electric			
F36	B58	2017 440i xDrive Gran Coupe	Electric			



The Dinan app for Android or Apple iOS smart phones & tablets allows you to connect to a DINANTronics ECU and easily change between Bypass mode, and any licensed Stage.

To obtain the free DINANTRONICS app, search for 'dinantronics' on either the iTunes or Google Play stores, and download for your specific platform.

**Requirement:**

The app must be used with an Android or Apple device equipped with Bluetooth version 4.0, such as:

- Apple iPhone 4s or newer
- Apple iPad 3 or newer
- Apple iPad Air or newer
- Apple iPad mini or newer
- Samsung Galaxy S3 or newer
- numerous other Android devices



## Harness INSTALLATION INSTRUCTIONS

PART NUMBER  
**D440-0009**

APPLICATION:  
2017 F22/F23 M240i & xDrive  
2016-17 F30/F34 340i & xDrive  
2016-17 F32/F33/F36 440i & xDrive

Congratulations for being selective enough to use a DINANTronics Performance Tuner (DPT). We have spent many hours developing this system to assure that you will receive maximum performance and durability with minimum difficulty in installation.

Please take the time to read these instructions thoroughly before proceeding. When performing the installation, read the entire numbered instruction before working on the car. If you feel that you do not have the requisite skill, please arrange for a qualified repair facility to perform the installation.

### Notes:

- Evaluate and repair all faults stored in the ECU memories before installing any Dinan components.
- The harness must have a **BLUE BAND** near the DPT SENSOR connectors as shown below.



# Warning!

Damage will occur if you do not follow instructions and install harness incorrectly.

Read and follow instructions step-by-step, making sure you plug harness in the correct sensors. Run the wires along the paths shown. The harness can be damaged if it is routed thru the wrong area.

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## **Product Information.**

The DINANTronics performance tuner box is not sealed. The electronics board inside of the box is. It is coated with a special material to waterproof it.

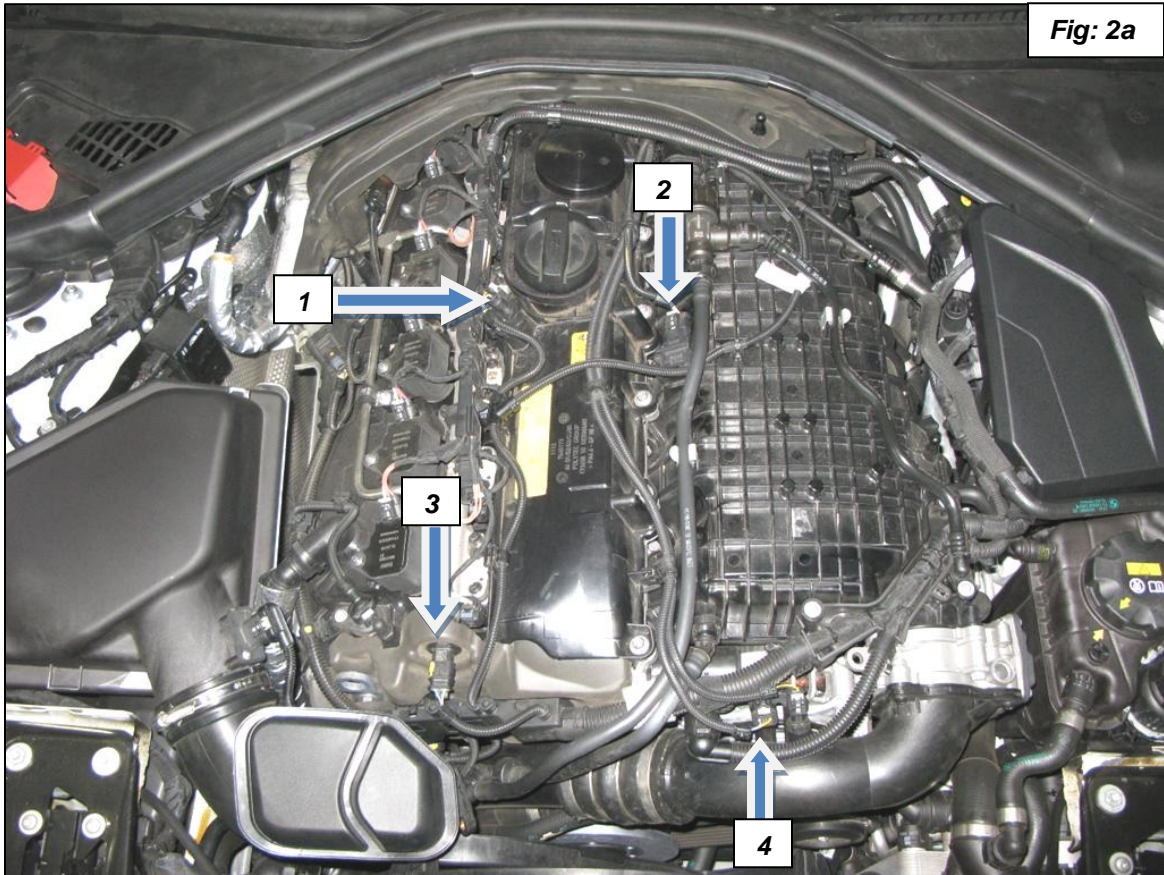
**Installation: Photos for M240i, 340i and 440i are on pages 3-8.**

1. Disconnect the negative battery lead in the trunk.
2. All sensor connections for the DINANTronics B58 harness are located underneath the engine cover. Remove the engine cover by simply lifting up on the front of the cover and the 4 rubber grommets will release. The cover will come detached. Place this cover aside until the installation procedure is complete.
3. Remove right side cover in engine compartment. Turn locks 90° counterclockwise. Unlock catch and pull cover up and outward. The cover is shown in the top left corner of figure 1.

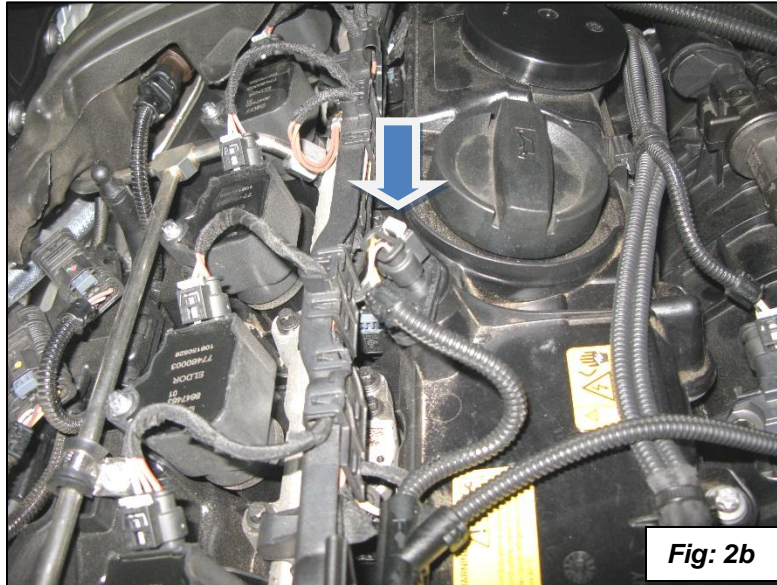


4. Shown in figure 2a is the location of the sensors which the DINANTronics Elite harness plugs into. The sensors are as follows:

- (1) = Intake Camshaft Position Sensor
- (2) = Manifold Pressure Sensor
- (3) = Charge Pipe Pressure Sensor
- (4) = Fuel Rail Pressure Sensor

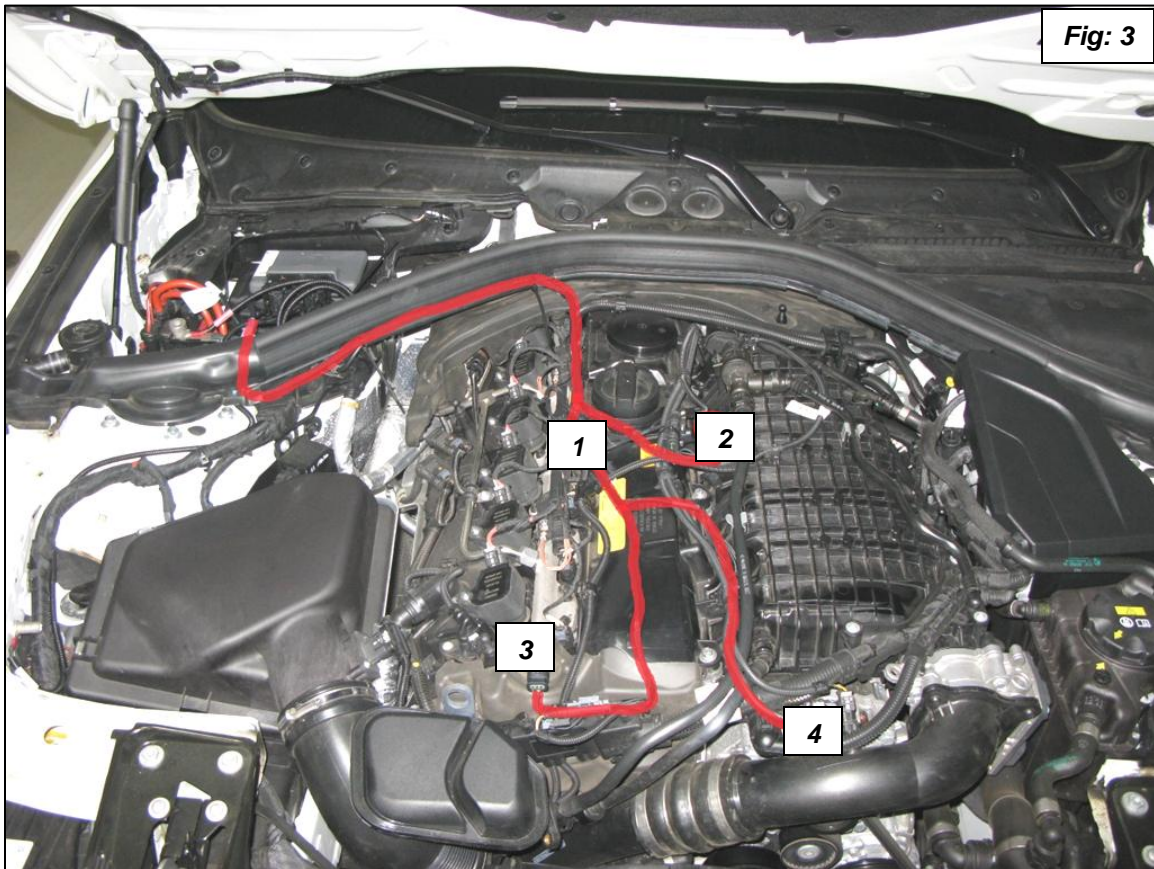


- To separate each connector, simply slide/pull the grey tab back until it clicks, then push down on the grey tab and detach the connector from the sensor.



**Fig: 2b**

- Now lay the harness as shown in Figure 3, so you can identify where each connector goes, and plug them into their correct locations.



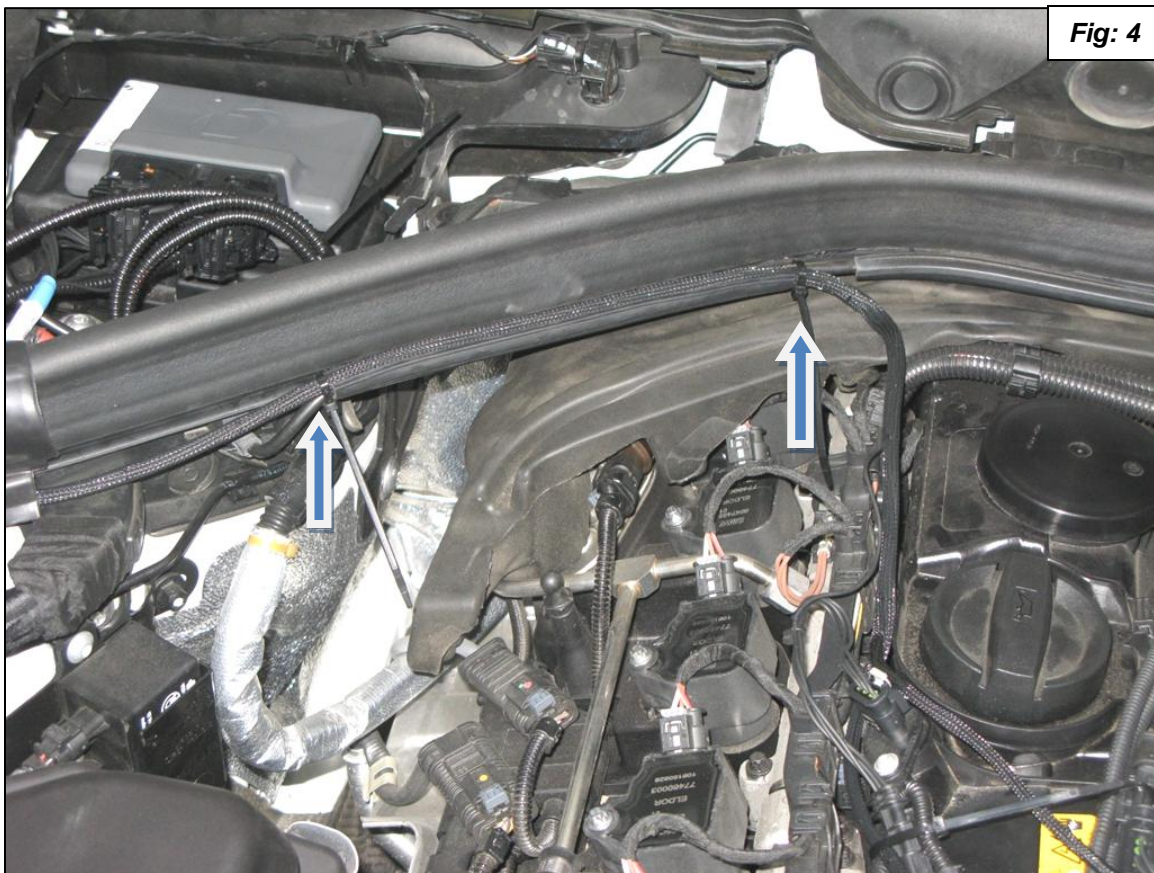
**Fig: 3**

7. Now we will start by plugging the DINANTronics harness connector set for the **Camshaft Position Sensor** into the sensor and the car harness side into the other side of the DINANTronics harness. This 3-pin connector pigtail has 1 wire that breaks off from the set and goes to the big connectors located where the DINANTronics connectors plug into the Dinan ECU.
8. Next, we will attach the 4-pin pigtail for the **Manifold Pressure Sensor**. First plug the connector from the DINANTronics harness into the sensor, then plug the stock connector from the car harness into the other lead on the DINANTronics harness.
9. Next, we will plug in the 3-pin connector for the **Fuel Rail Pressure Sensor**. This connector looks similar to the sensor set for the Charge Pipe Pressure sensor, but the connector is keyed differently and will only plug into the Fuel Rail Pressure Sensor. The receptacle for the car harness side is grey in color compared to that of the Charge Pipe Pressure sensor that has a black receptacle. First plug the DINANTronics harness into the sensor and then plug the factory car harness into the other lead on the DINANTronics harness.
10. Last, we will plug in the 3-pin connector for the **Charge Pipe Pressure Sensor**. This one has a black receptacle for the car harness side. Plug the DINANTronics harness connector into the Charge Pipe Pressure sensor first, then the car harness into the black receptacle for the DINANTronics harness.





11. Once all connectors on the engine have been plugged in, we will now place multiple zip-ties throughout to secure the DINANTronics harness to the vehicle. In your kit are 10 zip-ties, use one for each set of connectors to secure them to a car harness near the sensor. This will prevent them from moving around, getting caught, and stretched. It will also help when you reinstall the engine cover. Also, secure the harness in other places along the path so it looks factory and is completely hidden when the engine cover is in place. Trim excess material on the zip-ties for a clean install.
12. Next secure the harness to the rubber engine compartment seal as shown. You can pull back the rubber flap and push the harness in behind it. It will help hold it in and then you can zip-tie the harness to the rubber hose as shown in figure 4. Once these have been secured, trim excess material on the zip-ties.



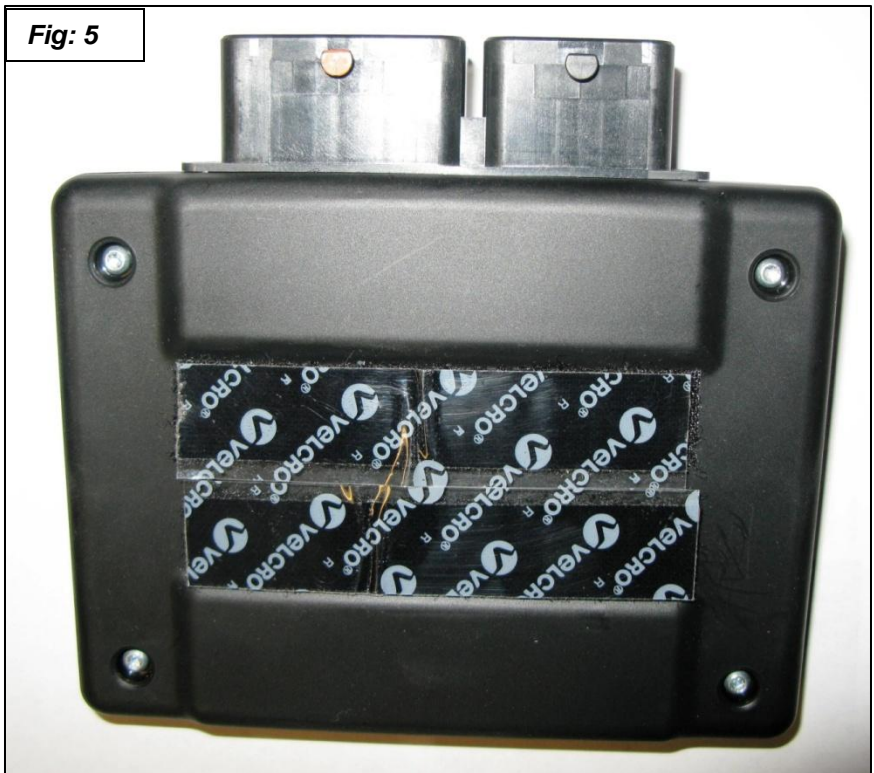
13. Route the rest of the DINANTronics harness into the compartment that has been exposed by removing the lower window trim. This will be where the DINANTronics ECU will be located and the power and ground wires will extend from. You can route the DINANTronics harness between the engine compartment rubber seal and the rubber cover for the shock tower. There is a little area that the harness can go and look very clean.

14. Clean the underside surface of the Dinan ECU. As shown in figure 5, you will attach Velcro strips.

15. Attach the connectors to the Dinan ECU starting with the large one first.

16. See figure 3 for mounting location. Clean the Lid of the Power Distribution Box so the Velcro double stick tape will adhere. Peel the cover off the Velcro and adhere the Dinan ECU to the Lid. Connect the power wire to the positive battery lug in the same compartment where the Dinan ECU is located. Coil the excess wire and secure with a zip tie.

17. Now you will need to install your ground wire. This wire will go next to the intake airbox on the passenger side of the vehicle as shown in figure 6. Route the wire as shown and secure the cable to the factory harness with a zip tie.



18. Reinstall the lower windshield cowl and lock down the 3 locks by turning them 90° until the arrows align. See figure 7.



19. Reinstall the engine cover.
20. Reinstall the negative terminal on the battery and tighten down.

#### **Steps for All Cars Before starting**

21. If necessary, program the DPT ECU following the instructions supplied with it. **Make sure you install the correct program per your specific vehicle.**
22. Check & clear faults before starting engine:
  - Turn the ignition on without starting by pressing start button without stepping on brake or clutch pedals.
  - Check for faults.
  - Clear any faults found.
  - Repeat process as necessary until no faults are found.
  - The engine may be started once the fault memory remains clear.



## INSTALLATION INSTRUCTIONS

### PART NUMBER

Various -- see chart below

### APPLICATION:

Various -- see chart below

Congratulations for being selective enough to use a DINANTRONICS Performance Tuner. We have spent many hours developing this system to assure that you will receive maximum performance and durability with minimum difficulty in installation.

Please take the time to read these instructions thoroughly before proceeding. When performing the installation, read the entire numbered instruction before working on the car. If you feel that you do not have the requisite skill, please arrange for a qualified repair facility to perform the installation.

### **\*\* WARNING \*\***

**This DINANTRONICS ECU and software is designed for use in specific applications as detailed in the chart below. Do not install this product into a vehicle not listed for the specific ECU & software you have. Damage will occur if this kit is misapplied!**

**As indicated in the DINAN product catalog, certain DINANTRONICS software products were designed for use with additional high performance hardware components including, but not limited to, Free-Flow Exhaust systems, cold air intake systems, and intercooler systems. Use of such DINANTRONICS software products without the required associated hardware components voids any and all warranties.**

## **ECU Part Numbers & Applications:**

Examine the kit part number shown on the packaging. See chart below and confirm you have the correct ECU & software for your application. Do not proceed if you do not have the correct ECU & software for your application! Contact Dinan if you have any questions.

<b><u>Chassis</u></b>	<b><u>Engine</u></b>	<b><u>Vehicle</u></b>	<b><u>Wastegate</u></b>	<b><u>Stage 1 ECU</u></b>	<b><u>Stage 2 ECU</u></b>	<b><u>Stage 3 ECU</u></b>
F22	B58	2017 M240i Coupe	Electric	D440-D830TM1		
F22	B58	2017 M240i xDrive	Electric	D440-D830TM1		
F23	B58	2017 M240i Convertible	Electric	D440-D830TM1		
F23	B58	2017 M240i xDrive Convertible	Electric	D440-D830TM1		
F30	B58	2016-2017 340i Sedan	Electric	D440-D830T1		
F30	B58	2016-2017 340i xDrive Sedan	Electric	D440-D830T1		
F34	B58	2017 340i xDrive Gran Turismo	Electric	D440-D830T1		
F32	B58	2017 440i Coupe	Electric			
F32	B58	2017 440i xDrive Coupe	Electric			
F33	B58	2017 440i Convertible	Electric			
F33	B58	2017 440i xDrive Convertible	Electric			
F36	B58	2017 440i Gran Coupe	Electric			
F36	B58	2017 440i xDrive Gran Coupe	Electric			

## **Installation:**

1. **Important:**
  - **Evaluate and repair all faults stored in the ECU memories before installing any Dinan components.**
  - **Do not install this product on a vehicle that is not running properly!**
2. On the DINANTRONICS ECU is a white identification label which displays the MAC address of this ECU. The MAC address is a series of 16 letters & numbers (see below). Verify that the MAC address on the ECU matches the address shown on identical stickers shipped loose in the package.
3. Install ECU per instructions included with the Dinan wiring harness for your specific vehicle. **Do note the harness serial number which is on a sticker near the ECU plugs.**
4. Affix a loose sticker to the driver's door jamb near the VIN sticker. This allows easy identification of the MAC address of the DINANTRONICS ECU, after installation.  
  
TIP: Scanning the QR code (on the ECU itself, or on the door jamb) with a QR reader on a smartphone will open a web page which shows what software was loaded & activated in this ECU.
5. Affix the final loose sticker onto the DINANTRONICS Product Registration page at the end of this section.
6. Completely fill out the remainder of the registration page.
7. This ECU has been preloaded with software for this car. No further action is needed.