

# BD Cool Down Timer 2

# 

Application Chart		
Dodge Cummins (5.9/6.7)	1994-2008	
Ford F Series (6.0/6.4/7.3L)	1994-2008	
GMC/Chevy Duramax	2001-2009	

\*\*\* Please read this manual before starting installation. \*\*\*

#### OWNER'S MANUAL - LEAVE IN GLOVE BOX

Install Manual Part # I1081160 Printed in Canada

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#### Kit Contents

Please check to make sure that you have all the parts listed in this kit before you begin to install this kit.

BD Cool Down Timer 2 (P/N# 1081160)					
1801160	1801161	1801151			
TOWN MALE AND THE AND					
CDT2 Control Module	CDT2 Wiring Harness	Ring Connector			
Qty: 1	Qty: 1	Qty: 2			
1300348	1300349	1300350			
Posi-Lock Connector	Posi-Lock Connector	Posi-Lock Connector			
(18-22ga – Gray in color)	(12-18ga – Black in color)	(10-12ga – Yellow in color)			
Qty: 5	Qty: 2	Qty: 2			

### **Required Tools**

- Wire strippers
- Wire crimpers
- Small Flat Nose Screwdriver
- Pliers (Needle / Flat Nose)
- Soldering Gun (Optional)
- Heat Shrink / Liquid Tape (Optional)

## **Options**

• 1081151 Probe (Thermocouple) Kit

## **Compatibility**

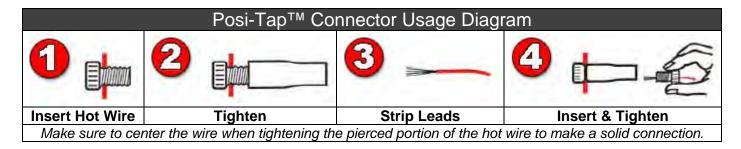
This Cool Down Timer will work with virtually all "K" type of thermocouples offered by companies such as ISSPRO or EGT.

#### Notes On Connectors

The kit includes a number of Posi-Tap™ connectors (Gray or Red/Black/Green or Yellow) to tap onto OEM wiring. It is important to select the correct color of connector so that it matches the gauge of the OEM wire that it is being installed on. Using the incorrect connector could cause an inadequate connection and/or the OEM wire could be severed.

<b>OEM Wire</b>	Posi-Tap™ Color
18-22ga	Gray
12-18ga	Black
10-12ga	Yellow

Though these connectors offer a quicker installation, the best option would be to solder the wires and isolate the joints with heat shrink or liquid electrical tape. Proper soldering techniques should be used to ensure adequate connections.



The ground terminals of the vehicle's batteries should be disconnected before performing any piercing/posi-tapping onto any ECM/PCM wire.

## What Is The Cool Down Timer 2 (CDT2)?

The CDT2 is designed to keep the engine running when the ignition key is turned off and the exhaust temperature is above a set point (between 250-550°F) to prevent turbocharger bearing failure that could occur when the engine is shut down too quickly.

A typical turbocharger can spin in excess of 100,000rpm under load, which will continue spinning when the engine is turned off.

The turbocharger is lubricated and cooled by the engine oil, and when the engine is turned off, that oil supply is cut off. If a turbocharger is still spinning at a high RPM when the oil supply is cut off, the internal bearings will utilize what remaining oil is around them then start to heat up - essentially cooking the oil, which causes premature bearing failure. By allowing the turbocharger to slow down to a safe RPM, this bearing failure can be prevented.

A very efficient means of gauging a safe time to turn the engine off is by the exhaust temperature. The suggested temperature range to go by is below 400°F (with the thermocouple mounted post-turbo). The further away the probe is away from the turbocharger, the lower the shut-off temperature should be. If the thermocouple is mounted pre-turbo, then the shut-off temperature can be higher.

#### How Does The Cool Down Timer 2 Work?

The CDT2 module utilizes the signal from the thermocouple that is measuring the exhaust gas temperature. The thermocouple may already be connected to a gauge or it can be connected to the CDT2 module on its own.

When the key is turned off and the exhaust gas temperature is above the shutdown setting, the CDT2 module will keep power supplied to the ECM/PCM, which in turn will keep the engine running until the temperature falls below the setting.

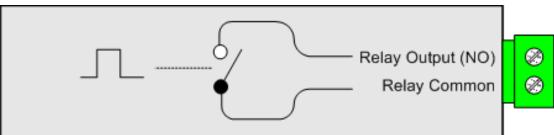
As well a new feature of the CDT2 is to shut the truck down based on an adjustable time. This time is adjustable using the potentiometer on the side of the control unit.

#### **Precautions**

The CDT2 by default will **not** lock the doors or set the alarm. With most vehicles, once you shut the door you can use the keyless remote or key to lock the doors.

Most OEM and aftermarket alarms will have to be activated after the CDT2 has shutdown the engine. Due to the wide variety of the alarms and immobilizers, it is best to test the system(s) thoroughly to ensure proper procedures of activation or use in conjunctions with the CDT2.

The "Relay Output (NO)" and the "Relay Common" terminals can be configured to lock the doors automatically. Depending on the vehicle and the method of locking the doors you can wire either a Ground or 12V source to the "Relay Common" terminal. When the CDT2 shuts down the "Relay Common" terminal will be pulsed out to the "Relay Output (NO) terminal. See the below wiring diagram. Note BD cannot provide support on this option.



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Proper parking procedures should be adhered to before leaving the vehicle including the engagement of the parking brake. Children or animals should not be left unattended in the vehicle while the CDT2 is keeping the vehicle running.

#### Safety Features

The CDT2 module has a few safety features built-in that the driver should be aware of. If for some reason the exhaust gas temperature does not fall below the shutdown setting within five (5) minutes from the key being turned off, the CDT2 will automatically shutdown the engine.

As well if the engine starts to initiate a REGEN cycle causing the EGT's to rise the CDT2 will shut the truck off.

The CDT2 module is also designed to monitor the vehicle's hydraulic brakes when it is connected to the brake pedal switch via the Brake Pedal terminal on the module. While the CDT2 module is keeping the engine alive (ignition key turned off and exhaust gas temperature above the shutdown setting), if the brake pedal is depressed the CDT2 will shutdown the engine. This was implemented to protect the vehicle from being stolen when the engine is in cool down mode; eventually the brake pedal would have to be pressed which will shutdown the engine preventing the thief from easily driving away with the vehicle. This is also useful in situations where the engine needs to be shutdown immediately or is desired to be shutdown sooner.

### Vehicle Wiring

Using the following diagrams applicable to your vehicle, tap onto the vehicles wires using the appropriate sized Posi-Tap™ connector (not necessary if soldering the connections). All the vehicle wires are located under the dash where the module will be located.

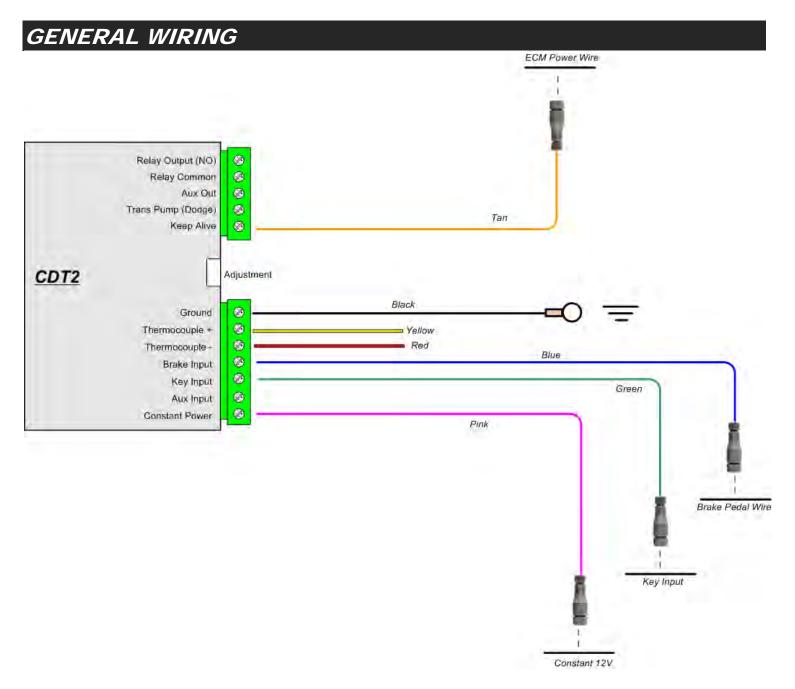
Excess wire can be trimmed but please keep in mind that the module may have to be accessed to adjust the shutdown temperature so we suggest leaving enough slack to perform this function.

Connect to the appropriate terminals as per the charts and diagrams. Tighten each terminal by turning the terminal screws clockwise until the wire is secure.

When connecting the wires to the module, leave enough slack to so that the module can be accessed to temperature adjustments.

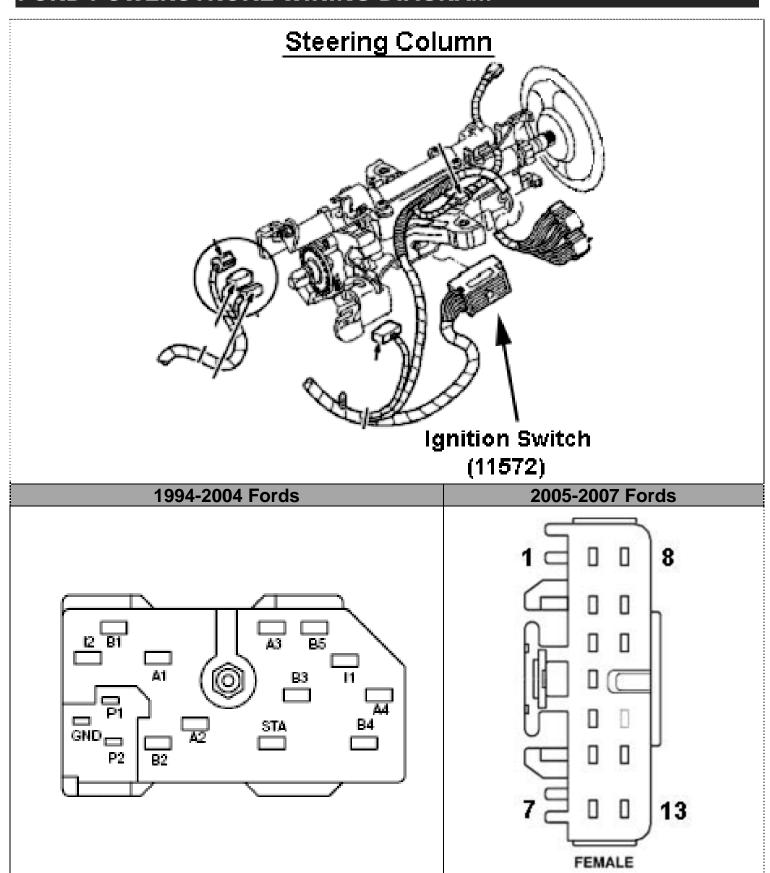
## NOTES

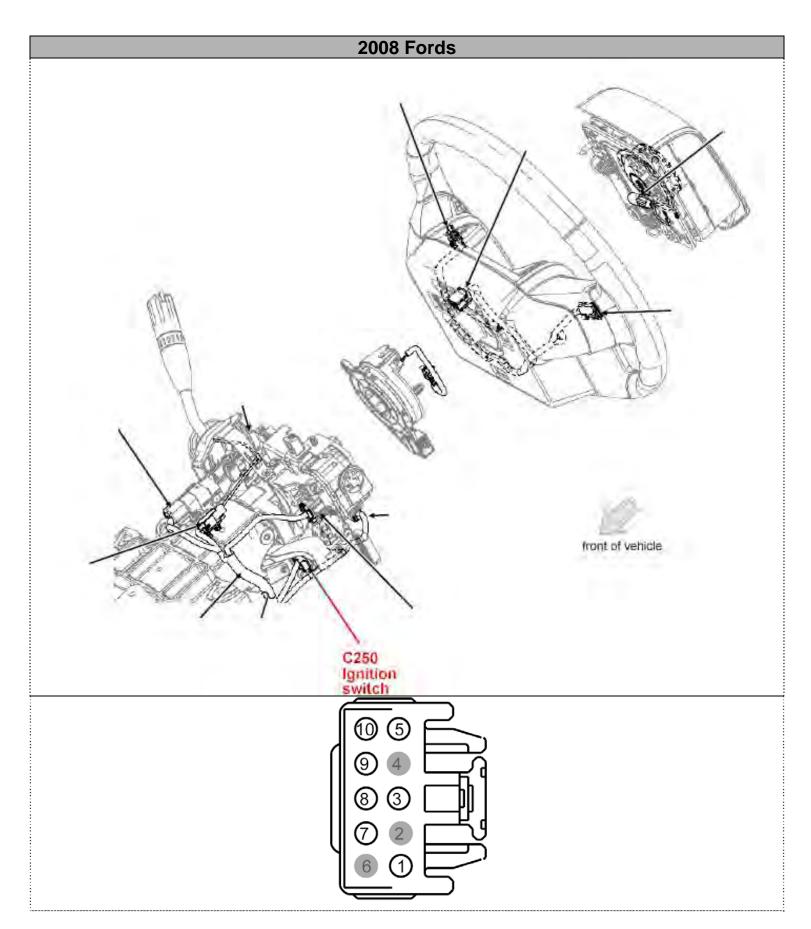
Please be advised that when the engine is in cool down mode (CDT2 is active) a number of trouble lights or message center errors maybe displayed. This is completely normal and should not be a concern. The vehicle will function normally once the key is inserted again.



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## FORD POWERSTROKE WIRING DIAGRAM

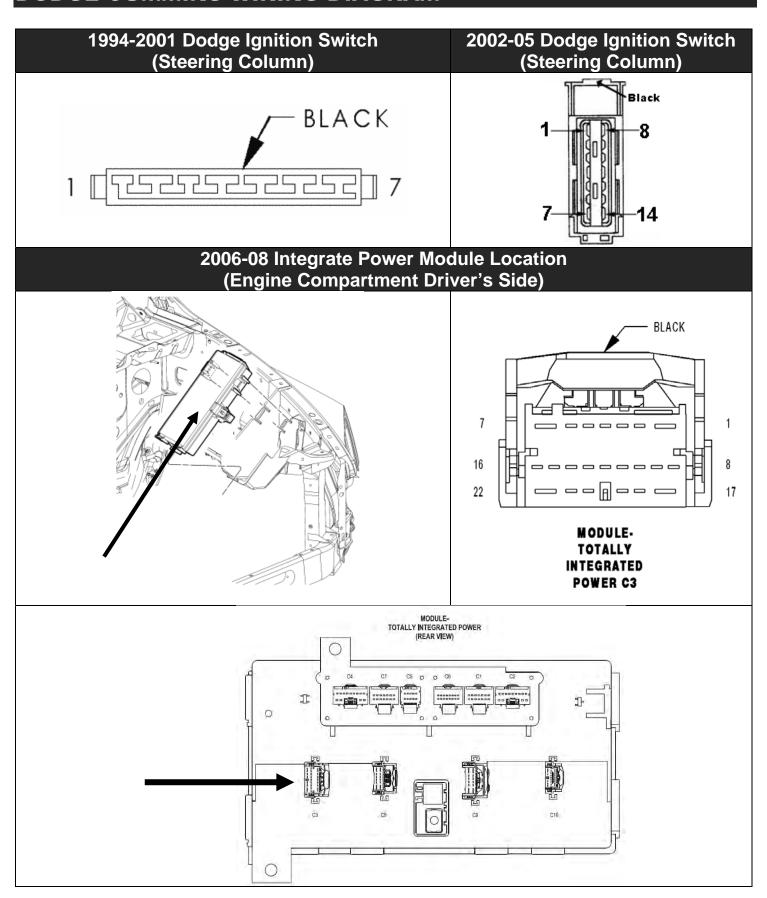




#### 1081160 - Cool Down Timer 2 Connect the black wire to a good grounding point.

Model	Location	OEM Wire	Pin
	Brake Pedal (Blue	Wire)	
<b>1994-2003</b> 7.3L		GN	
<b>2003-2007</b> 6.0L	Brake Pedal Switch	RD/GN	
<b>2007-2008</b> 6.4L		VT/WH	
	Key (Green Wi	re)	
<b>1994-1997</b> 7.3L	Ignition Connector C269	BK/LG 297	A1
<b>1999-2003</b> 7.3L	Ignition Connector C209	RD/BK 1040	A3
<b>2003-2004</b> 6.0L		RD/BK 1040	A3
<b>2005-2007</b> 6.0L	Ignition Connector C250	RD/BK 1040	13
<b>2007-2008</b> 6.4L		BR/YE or YE/OG	7
	Keep Alive (Tan '	Wire)	
<b>1994-1997</b> 7.3L		RD/LG 16	I1
<b>1999-2001</b> 7.3L	Ignition Switch Harness	RD/BK 1000	I1
<b>2002-2003</b> 7.3L		RD/LG 16	I1
<b>2003-2004</b> 6.0L		WH/YL 1044	I1
<b>2005-2007</b> 6.0L	Ignition Connector C250	RD/LG 16	1
<b>2007-2008</b> 6.4L		WH/OG	1
	Constant (Pink V	Vire)	
<b>1994-2003</b> 7.3L	Ignition Switch Harness	YL 37	B1 or
1334-2003 7.5L	igilition owiton harriess	12 37	B3
<b>2003-2004</b> 6.0L	Ignition Connector C250	YL 37	B1 or
		12 37	B3
<b>2005-2007</b> 6.0L	ignition connector 0230	YL 37	7
<b>2007-2008</b> 6.4L		DB/RD	8

### **DODGE CUMMINS WIRING DIAGRAM**



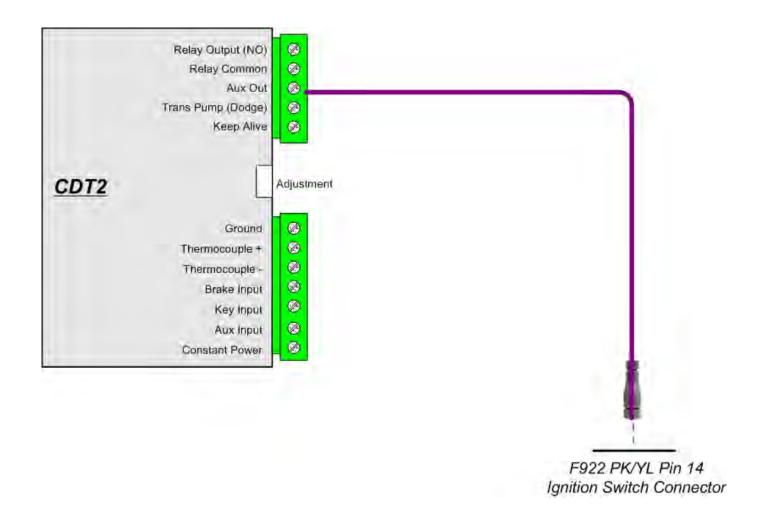
Model	Location	OEM Wire	Pin
	Brake Pedal (Blue	Wire)	
1994-2001	Brake Pedal Switch	WT/TN L50	5
2002-2008	Diake Fedai Switch	WT/TN L50	2
	Key (Green Wi	re)	
1994-2002		BK/OR A22	5
2003	Ignition Switch Harness	BK/WT A31	9
2004-2005		PK/YL F982	9
2006-2008	Integrated Power Module (C3)	PK/RD F12	22
	Keep Alive (Tan	Wire)	
1994-2002		DB A21	2
2003	Ignition Switch Harness	DB A21	3
2004-2005		PK/LG F951	3
2006-2008	Integrated Power Module (C3)	PK/GY F202	15
Constant (Pink Wire)			
1994-2002		RD A1	7
2003	Ignition Switch Harness	RD A1	4
2004-2005		RD A951	4
2006-2008	Integrated Power Module (C3)	RD A209 (10 AWG)	1

#### 20041/2 - 2005 Dodge Trucks Wastegate Solenoid Power Wiring

Dodge trucks in the year 2004½ & 2005 have a waste gate solenoid that requires power when the CDT2 keeps the ECM alive in cool down mode. You may notice that the check engine light comes on (with codes P0480 & P0243) approximately 30 seconds after the key is turned off.

The codes being sent do not affect performance or drivability in any way but only causes the annoyance of the engine light coming on. See the diagram below and on the next page for reference.

This step is <u>not</u> required for 2006 and newer Dodge trucks.

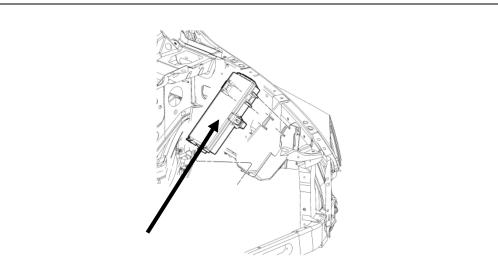


#### 2006-2008 Dodge Trucks Lift Pump Wiring

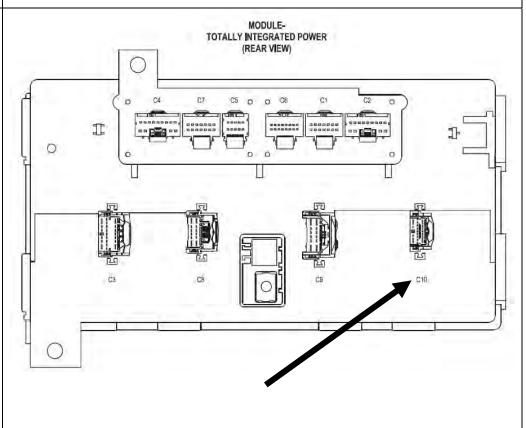
Dodge trucks in the year 2006 power the lift pump via an auxiliary circuit similar to the wastegate in 2004.5-05. Because of this you will need to wire an additional circuit to power your lift pump.

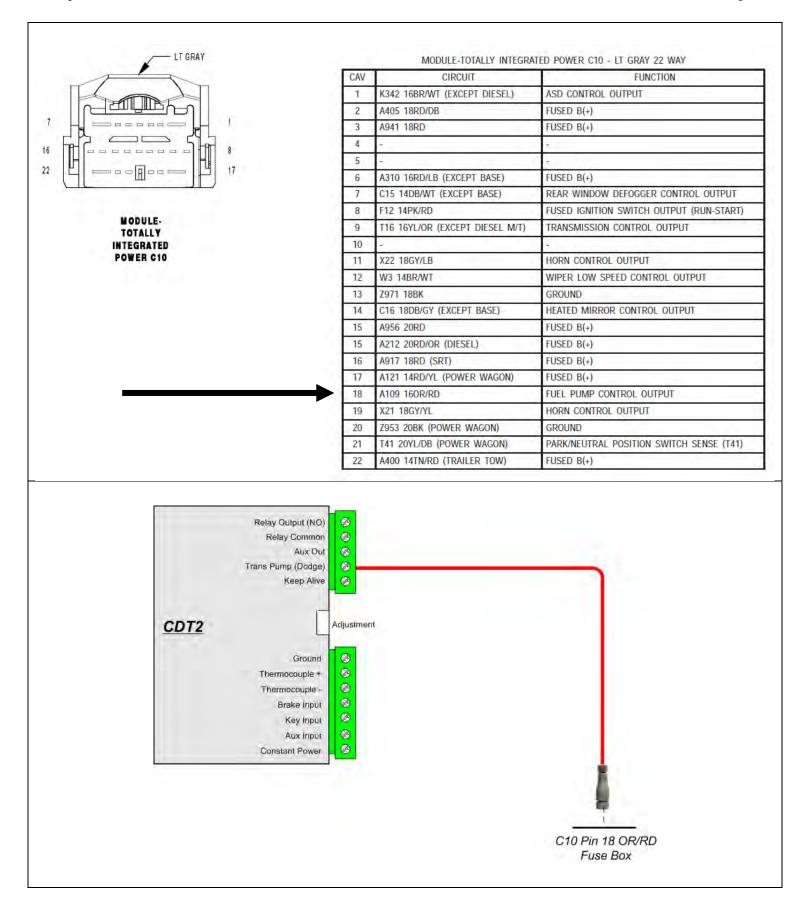
Locate the Integrated Power Module on driver's side of the engine compartment.

Release the two locking clips on the side and flip the Integrated Power Module over.



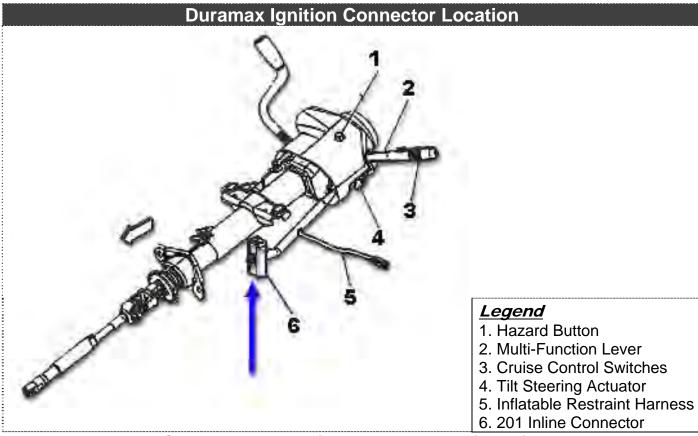
At the very bottom of the IPM, locate the appropriate connecter (C10). Locate Pin 18
OR/RD and use the Red T-Tap to tap this wire. Use the supplied wire to route this connection back to the CDT "Trans Pump" output.



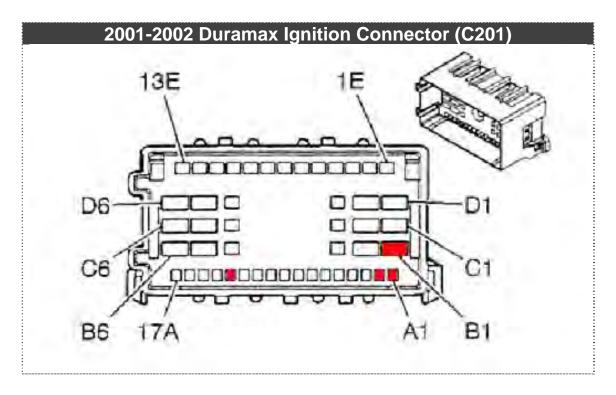


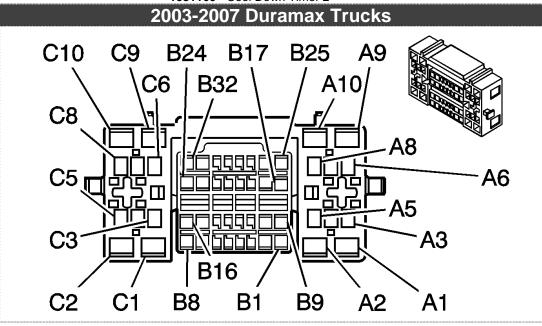
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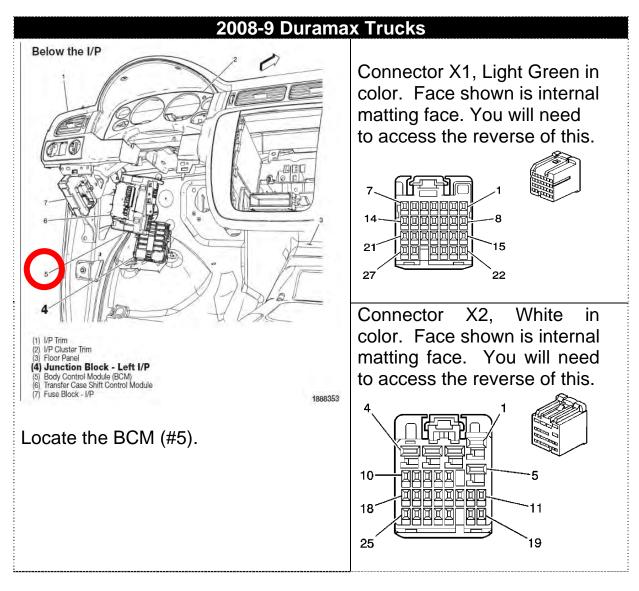
## DURAMAX WIRING DIAGRAMS



Connect the black wire to a good grounding point.







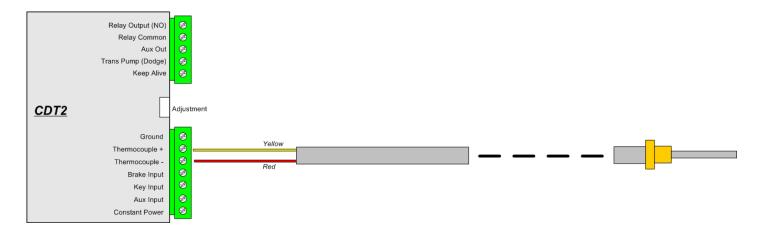
Model	Location	OEM Wire	Pin	
	Brake Pedal (Blue Wire)			
2001-2002	Ignition Connector C201	WT 17	A1	
2003-2007	Brake Pedal Connector	WT 5689	2	
2008-2009	Brake Pedal Connector	Light Blue/White	В	
	Key (Green Wire)			
2001-2002	Ignition Connector C201	BR 41	A13	
2003-2007	Ignition Connector C201	BR 41	B18	
2008-2009	Body Control Module (BCM) X1	PK 1020	2	
	Keep Alive (Tan Wire)			
2001-2007	Ignition Connector C201	PK 139	A2	
2008-2009	Body Control Module (BCM) X1	PK 3	14	
Constant (Pink Wire)				
2001-2002	Ignition Connector C201	RD 242	B1	
2003-2007	Ignition Connector C201	RD 342	C1	
2008-2009	Body Control Module (BCM) X2	Red/White	2	

#### Thermocouple Wiring (Not needed if monitoring with Time vs. Temp)

On most common "K" type thermocouples and wiring, a **yellow** wire is connected to the positive (+) side and a **red** wire is connected to the negative (-) side. The following are three common ways to connect the thermocouple to the CDT2 module. In all cases, the positive side of the thermocouple will be connected to the "Thermocouple +" terminal as indicated on the CDT2 module drawings and the negative side will be connected to the "Thermocouple -" terminal.

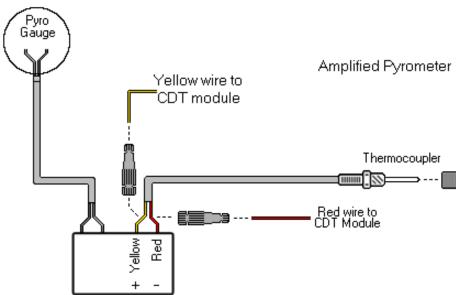
## **Direct Thermocouple Connection**

If there is no pyrometer gauge in the vehicle and a thermocouple is being installed to connect to the CDT2 module, follow this diagram:



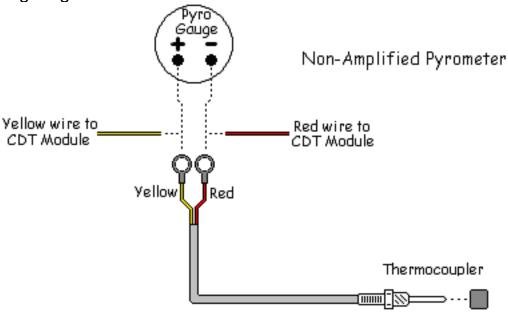
## **Amplified Pyrometer Gauge Kit**

Some pyrometer gauge kits utilize a powered amplifier in between the pyrometer gauge head and the thermocouple. If the vehicle has one of these systems installed, use the following diagram:



## Conventional Non-Amplified Pyrometer Kit

A conventional pyrometer gauge kit will have the thermocouple connected to the pyrometer gauge head via a lead wire. If the vehicle has one of these systems installed, use the following diagram:

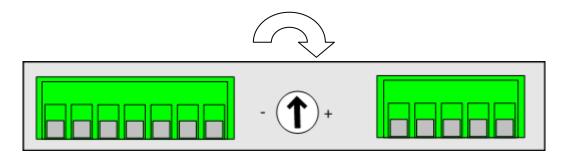


## Temperature Adjustment

The shutdown temperature can be set by using a small flat-headed screwdriver to adjust the potentiometer that can be accessed through the hole on the left side of the CDT2 module.

By turning the screw all the way to the right (clockwise), the CDT2 will shutdown at approximately 550°F. By turning the potentiometer all the way counter-clockwise, the CDT2 will shutdown at approximately 250°F. The CDT2 may have to be adjusted a few times until the desired shutdown temperature is achieved.

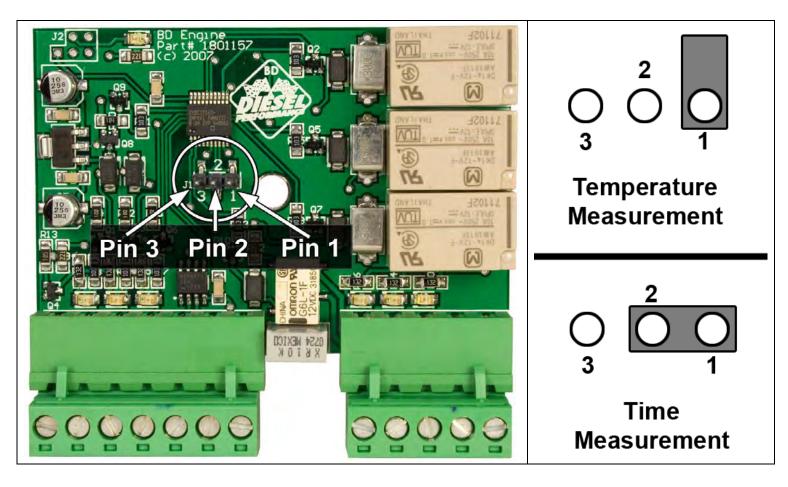
**NOTE:** Be careful not to apply too much pressure as the potentiometer is plastic and can break.



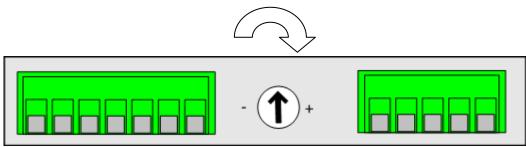
Adjustment Range: 250° to 550°

#### Time Adjustment

By default the CDT2 is setup to use the temperature as the default shutoff source. The unit can now be configured to use an adjustable time. If you unscrew the unit separating the two enclosure halves (the screw is located under the CDT2 sticker, in the middle of the module), you will see a jumper. You will need to set the jumper so that it connects pins **1 & 2.** See the diagram below for more information.



To adjust the time you can turn the potentiometer on the side of the unit.



Adjustment Range: 60 to 300 seconds

#### Communication / Operation Lights

There are a number of new feature that will help troubleshoot problems and indicate correct operation. These LED correspond and are aligned with their corresponding input outputs.

Inputs	LED Operation	
Key	Lit when supplied power	
Aux. In	Lit when supplied power	
Brake Input	Lit when Brake is depressed	
Temperature	Lit when temperature is above set point	
Outputs	LED Operation	
Aux Out	Lit when output powered	
Transfer Pump	Lit when output powered	
Keep Alive	Lit when output powered	

## Mounting

Once all the wiring and adjustments have been performed, secure or mount the CDT2 module so that it is not interfering with feet and/or moving parts or near direct heat. We suggest using Velcro to mount to the firewall or zap-strapping to a suitable place such as the back of the X-Monitor module. Being that the CDT2 module is light, it can be suspended if the wiring is secure.

#### Technical Assistance

If you required technical assistance with the installation or operation of this kit, please contact us at **604-853-6096**, Monday to Friday, 8:00am to 5:00 Pacific Time. We can also be contacted via email at **techline@bd-power.com** or visit our discussion forum site at **http://forum.bd-power.com/**.



# Wire Color Glossary

BK	Black	
BR	Brown	
DB	Dark Blue	
GN	Green	
GY	Gray	In the wiring diagrams, there are
LB	Light Blue	usually two wire colors for each
LG	Light Green	OEM wire, for example: RD/LB.
OR	Orange	This means it's a red colored wire
PK	Pink	with a light blue tracer.
RD	Red	
TN	Tan/Light Brown	
WT	White	
YL	Yellow	

#### **LIMITED WARRANTY STATEMENT**

BD Engine Brake, Inc., Valley Fuel Injection Ltd., BD Diesel Performance, Turbocharger.net (the "Seller") warrants the following product(s):

All products manufactured or rebuilt by the Seller are to be free from defects in material or workmanship which includes but is not limited to Turbochargers, Exhaust and Intake manifolds, Exhaust brakes, Intercoolers, Flex Plates, Transmissions, Torque Converters, Oil pans, Fuel pumps and systems, Electronic monitors and control systems. The Seller warrants to the original buyer of the product (the "Buyer") that it will repair or replace, free of charge, any product which has a defect in material or workmanship within the warranty period described below. Copy of original invoice is required to qualify for warranty.

A defect is defined as a condition within the product that would render the product inoperable under normal conditions of use and service. The Seller's responsibility under this Warranty is limited to the repair or replacement, at the Seller's option, of any warrantable product returned prepaid with a complete service history and proof of purchase. A valid proof of purchase is a dated bill of sale or receipt.

A Return Material Authorization (RMA) number, obtained in advance from a customer service representative of the Seller and the dated bill of sale or receipt, must accompany any product returned by the Buyer for warranty determination. The Seller will be the final authority on the approval of all warranty claims hereunder. The issuance of a RMA number does not represent an approval of a warranty claim. All repaired or replaced products will be returned to the Buyer freight collect. Accepted warranty products, which have been replaced, will become the sole property of the Seller.

Until the Seller has approved a warranty claim, the Buyer will be responsible for all costs. Replacement parts and the labor costs incurred by the removal and replacement of the product while performing warranty work will be the responsibility of the Buyer. In no case does the obligation of the Seller exceed the original purchase price of the product as indicated on the original bill of sale or receipt. Under no circumstances will the Seller be liable for any travel time incurred in diagnosis for defects, or any other contingent expenses.

Once the claim is approved and with in a 1 year period of original purchase Labor costs incurred will be considered for the removal and replacement of an eligible part while performing warranty work, at a rate of 55.00 per hour at authorized centers with prior approval of the Seller. Freight is FOB Abbotsford, B.C. Canada.

To the extent permitted by law, the Buyer hereby waives all rights other than those expressly set out herein and acknowledges that this warranty sets out the Buyer's exclusive remedies with respect to products covered by it. This warranty shall not be extended, amended or varied except by written instrument signed by the Seller and the Buyer.

The Seller will administer warranty requests on products sold by the Seller and not manufactured by the Seller by forwarding claims made by a Buyer under the manufacturer's warranty to the manufacturer. The final disposition of such claims will be made by the manufacturer and ruled by the laws of British Columbia, Canada.

Customer assumes risk in purchasing product with in 30 days may return the product for exchange of other BD products or services only. No cash refunds are available.

Please refer to Warranty time limitation per product.

# 1081160 - Cool Down Timer 2 NOT COVERED UNDER THIS WARRANTY

This warranty is limited to the original purchaser of the product and is not transferable to subsequent owners. Specifically excluded from this warranty are failures of products caused by misuse, misapplication, negligence of the Buyer, accidents, modification, abuse, improper storage, installation, repair or operation, use of unauthorized parts or other mistreatment of the Buyer or his agent. Any competitive use, sled pulling, drag racing will void warranty on product. A sheared or twisted shaft, broken planetary gear sets, burned clutches, broken drive hubs, sun gear damage, cracked housings is not covered. Fluids and filters or damage caused from fuel or air contamination, BioDiesel, low fluid levels. This warranty does not cover deterioration of plating, paint or any other coating, linings or parts that are subject to normal wear and tear, such as light bulbs, fuses, bearing wear, seal wear, etc.

If product is not installed by a trained and authorized BD dealer, installation facility must prove it is properly tooled and has certified training to have installed or to carry out repair of product.

The Seller also disclaims any liability for incidental or consequential damages including but not limited to, repair labor, rental vehicles, hotel cost or any other inconvenience cost. To the extent permitted by law, this warranty is in lieu of all other warranties or guaranties, either expressed or implied, included the implied warranties of merchantability and fitness for a particular purpose and shall not extend to any Buyer or to any person other than the original purchaser residing within the boundaries of the continental U.S. or Canada. As well the seller is not responsible or obligated to update previously manufactured parts that are currently under the above warranty.

NOTE THAT THIS GUARANTEE WILL BE VOID IF THE USER BREACHES THE CONDITIONS IN THE SECTION LABELED "NOT COVERED UNDER THIS WARRANTY" AND IS ONLY APPLICABLE ON THE PRODUCTS THE SELLER MANUFACTURES.

#### **DISCLAIMER OF LIABILITY**

Other than as expressly set forth herein, the Seller, together with its distributors, jobbers and dealers shall in no way be responsible for the product's proper use and service. In no event shall the Seller be liable for any special, incidental, indirect or consequential damages of any kind or nature, whether or not the Buyer was advised of the possibility of damage, arising or resulting from the use or performance of the product, and the Buyer hereby waives any and all such claims.

The Buyer acknowledges that he/she/it is not relying on the Seller's skill or judgment to select or furnish goods suitable for any particular purpose and that the Seller has no liability that will extend beyond the scope of the limited warranty contained herein, and the Buyer hereby waives all remedies or liabilities, expressed or implied, arising by operation of law or otherwise, (including, without limitation, any obligations of the Seller with respect to fitness for any particular purpose; merchantability; and special, incidental, indirect or consequential damages) or whether or not occasioned by the Seller's negligence.

The Seller disclaims any warranty and expressly disclaims any liability for personal injury or damages related to the Buyer's use of the product. The Buyer acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this Agreement and the Buyer agrees to indemnify the Seller and hold the Seller harmless from any claim related to the product and its use or performance. Under no circumstances will the Seller be liable for any damages, liabilities, costs or expenses incurred as a result of by reason of the use, performance or sale of the product, including without limitation, any damages, liabilities, costs or expenses incurred by reason of the Buyer's negligence related to those uses of the product as a result of the removal of the speed limiter.

The Seller assumes no liability regarding the improper installation or misapplication of the product. It is the installer's responsibility to check for proper installation, and, if in doubt, contact the manufacturer.

Limited Warranty Details			
	Labour		
Product Name	(Months/Miles) <sup>1</sup>	(Months/Miles) <sup>1, 2</sup>	Notes
Torque Converters (Dodge)	36/ 150,000	12/12,000	No Race abuse covered
Torque Converters (Ford & Allison)	36/ 150,000	12/ 12,000	No Race abuse covered
Transmissions	36/ 150,000	12/ 24,000	No Race abuse covered
Race Transmissions	12/ 24,000	Not Eligible	
Valve / Accumulators Bodies	12/ 24,000	12/ 24,000	
Transmission Pans	36/ 150,000	Not Eligible	
Auto / Torq / Towloc's	12 / 24,000	Not Eligible	
Flex Plates	36/ 150,000	Not Eligible	
Injectors & Injection Pumps	12 / 24,000	12/ 24,000	Race Pumps 90 days parts/No labour
Tuners and Chips	Manufacturer <sup>3</sup>	Not Eligible	
X-Monitor / Cool Down Timers	12/ 24,000	Not Eligible	
Intake / Exhaust Manifolds	36/ 75,000	Not Eligible	
Exhaust Kits	24 Months	Not Eligible	Surface rust not eligible
Turbo Guards / Boost Builders / Waste Gate Kits	12/ 24,000	Not Eligible	
Intercoolers / Hoses / Clamps	12/ 24,000	Not Eligible	
Transmission Coolers	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Manual Transmission Clutches	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Short Shifters	12/ 24,000	Not Eligible	
Engine / Head Stud kits	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Engine Brakes	24/ 24,000	12/ 24,000	
Steering Stabilizers / Sway bars	12/ 24,000	Not Eligible	
Boost Coolers	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Gauges and Mounts	Manufacturer <sup>3</sup>	Manufacturer <sup>3</sup>	
Performance Turbos	12/ 12,000	Not Eligible	
FlowMAX Fuel Pumps	60/ 75,000	Not Eligible	
Auxiliary Fuel Pumps	12/ 12,000	Not Eligible	

A Return Material Authorization (RMA) number, obtained in advance from a customer service representative of the Seller and the dated bill of sale or receipt, must accompany any product returned by the Buyer for warranty determination.

<sup>&</sup>lt;sup>1</sup> Warranty is based on whichever occurs first (Months or Mileage).

<sup>&</sup>lt;sup>2</sup> Prior approvals must be given to qualify for labour reimbursement.

<sup>&</sup>lt;sup>3</sup> As per Manufacturer's warranty