

## ***GReddy Turbo Kit***

Honda Civic Si EP3 (K20A)      T517Z 8cm<sup>2</sup>

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T517Z 8cm<sup>2</sup>

## Installation Manual

**Please read the entire manual before installing this kit.**

Application:

Make	Model	Chassis	Year
Honda	Civic EP3	EP3	02~03

- This **GReddy Turbo Kit** is designed only for the vehicles specified above.
- **GReddy Front mount intercooler kit** is recommended with this kit. (Please check with your GReddy Authorized dealer for availability)
- Premium grade gasoline (92 octane or higher) is required with this Kit.
- Make sure that the vehicle is not equipped with any ECU upgrade chips.
- Use of **GReddy Racing Spark Plugs ISO #7** or NGK plugs (colder than factory) is recommended with this kit.

### Important

- This installation should only be performed by a trained specialist who is very familiar with the automobile's mechanical, electrical and fuel management system.
- If installed by an untrained person, it may cause damage to the kit as well as the vehicle.
- GReddy Performance Products Inc. is not responsible for any damage to the vehicle's electrical system caused by improper installation.

# 1. Parts List

1.	Turbocharger T517Z 8cm <sup>2</sup> P565	1
2.	Turbo Exhaust Manifold (Cast Iron)	1
3.	Down Pipe Adapter (Cast Iron-Steel 60Ø)	1
4.	Suction Pipe (Aluminum 60Ø)	1
5.	TZ suction flange (Aluminum 60Ø)	1
6.	Compression Pipe C-1 (Aluminum 50Ø)	1
7.	“ C-2 (Aluminum 60Ø)	1
8.	“ C-3 (Aluminum elbow No. 76 60Ø)	1
9.	Restrictor (Aluminum 43Ø)	1
10.	Airinx AY-MB (Blue filter)	1
11.	Airinx Adapter (M60)	1
12.	Fuel Injector 440cc (w/spacerx2, stud bolt x2 o-ringx8)	4
13.	“ Connector Harness	4
14.	e-Manage	1
15.	I/J Harness (18P)	1
16.	Sensor Adapter Type-All US	1
17.	Oil Pressure Hose SUS 600mm	1
18.	“ Banjo Fitting male & female (small)	1set
19.	“ Copper Washer 10Ø (t=1.0mm)	2
20.	“ Three Way Fitting	1
21.	“ Union Fitting 1/8PT – 1/8 PT	1
22.	“ Union Fitting 1/8PT – 1/8PF 90°	1
23.	Oil Return Flange tube 16Ø (Turbo side)	1
24.	“ Banjo Fitting male & female 16Ø (Engine side)	1Set
25.	“ Banjo Spacer t=16	1
26.	“ Banjo Copper washer 15.5Ø (t=1.0mm)	3

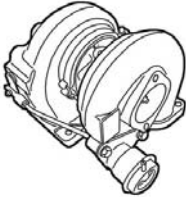
# 1. Parts List

27.	Vacuum Hose (Blue) 5Ø x 200mm (for Actuator)	1
28.	Rubber Hose 8Ø X 500mm (for Idle controller)	1
29.	Rubber Hose 16Ø X 400mm (for Oil return)	1
30.	Rubber Hose 19Ø X 190mm (for Blow by)	1
31.	Silicone Hose 60Ø x70mm	2
32.	Reducer Hose 50Ø – 60Ø	1
33.	Reducer Hose 60Ø – 70Ø	1
34.	Hose band 8Ø Tridon #4	2
35.	Hose band 16Ø Tridon #10	2
36.	Hose band 19Ø Tridon #12	2
37.	Hose band 50Ø Tridon #32	1
38.	Hose band 60Ø Tridon #36	7
39.	Hose band 70Ø Tridon #44	1
40.	Gasket Turbo in	2
41.	Gasket Turbo in	1
42.	Gasket Turbine in	1
43.	Gasket Turbine out	1
44.	Gasket Down Pipe	1
45.	Gasket Oil Return Flange Tube Small	1
46.	Heat Shield Turbine	1
47.	Heat Shield Down pipe	1
48.	Thermo-cloth 100mm X 1000mm sheet	4
49.	Zip ties 150mm	10
50.	Zip ties 200mm	5
51.	Three-way Vacuum Tee 10Ø-6Ø-10Ø	1
52.	Suction pipe bracket	1
53.	Oil return hose bracket	1
54.	Airinx hose fitting 8Ø-M18	1
55.	Intake Air Temperature Grommet	1

# 1. Parts List

<u>56.</u>	<u>M6 X 10</u>	<u>P=1.0</u>	<u>B S/W F/W</u>	<u>- (Down pipe heat shield)</u>	<u>2</u>
<u>57.</u>	<u>M6 X 15</u>	<u>P=1.0</u>	<u>B S/W F/W</u>	<u>- (Suction pipe &amp; compression pipe bracket)</u>	<u>2</u>
<u>58.</u>	<u>M6 X 15</u>	<u>P=1.0</u>	<u>B S/W F/W N</u>	<u>(Suction pipe bracket)</u>	<u>1</u>
<u>59.</u>	<u>M6 X 15</u>	<u>P=1.0</u>	<u>B S/W</u>	<u>- - (Oil Return Bracket)</u>	<u>2</u>
<u>60.</u>	<u>M8 X 15</u>	<u>P=1.25</u>	<u>B S/W F/W</u>	<u>- (Turbine heat shield)</u>	<u>2</u>
<u>61.</u>	<u>M8 X 30</u>	<u>P=1.25</u>	<u>B S/W F/W N</u>	<u>(Compressor inlet)</u>	<u>2</u>
<u>62.</u>	<u>M8 X 20</u>	<u>P=1.25</u>	<u>B S/W F/W</u>	<u>- (Compressor outlet)</u>	<u>2</u>
<u>63.</u>	<u>M8 X 30</u>	<u>P=1.25</u>	<u>B S/W</u>	<u>- N (Exhaust manifold – Turbo in flange)</u>	<u>7</u>
<u>64.</u>	<u>M8 X 75</u>	<u>P=1.25</u>	<u>B S/W</u>	<u>- - (Turbine out)</u>	<u>2</u>
<u>65.</u>	<u>M8</u>	<u>P=1.25</u>	<u>- - -</u>	<u>N (Down pipe)</u>	<u>2</u>
<u>66.</u>	<u>M10 X 45</u>	<u>P=1.25</u>	<u>B S/W F/W N</u>	<u>(Ex. Manifold)</u>	<u>3</u>

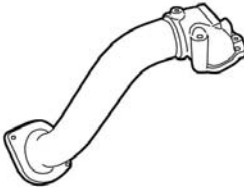
# 1. Parts List



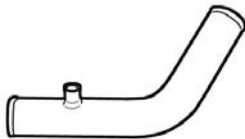
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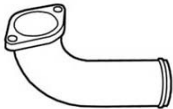
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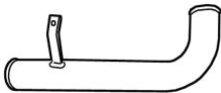
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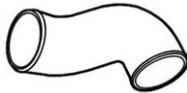
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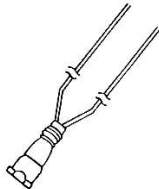
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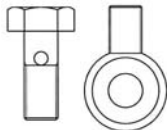
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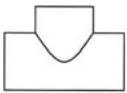
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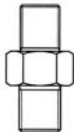
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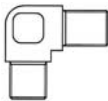
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# 1. Parts List



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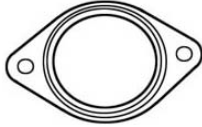
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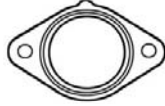
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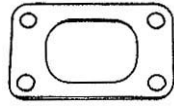
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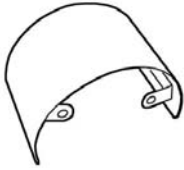
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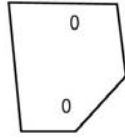
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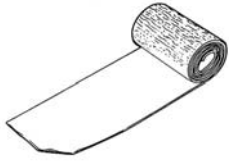
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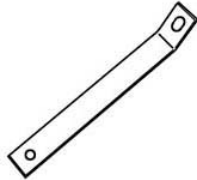
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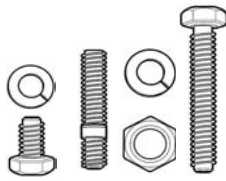
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## 2. Removal of Stock Parts

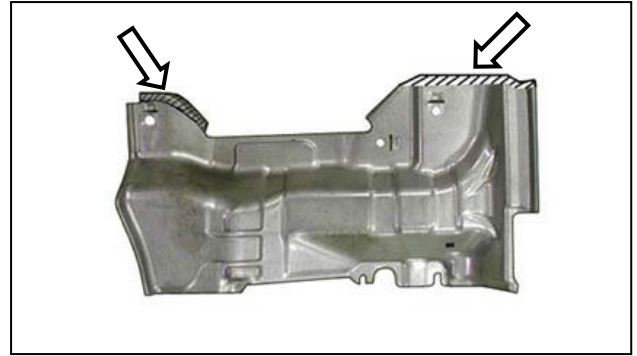
When removing the stock parts, make sure you read over the factory repair manual for proper procedures.

- 2-1 Disconnect the negative terminal of the battery.
- 2-2 Release the fuel pressure in the fuel system by loosening the fuel pulsation damper on top of the fuel rail. (see factory repair manual for detail procedure).
- 2-3 Drain the engine oil.
- 2-4 Remove the front strut bar and it's brackets.
- 2-5 Remove the engine cover.
- 2-6 Remove the Air cleaner assembly with intake tube, breather hose and Intake temperature sensor.
- 2-7 Disconnect the primary and secondary O2 sensor and remover the catalytic converter.
- 2-8 Remover the VTEC solenoid valve assembly.
- 2-9 Remove the exhaust system heat shield and manifold.
- 2-10 Remove the heat shield plate (bottom of the firewall) and the intermediate drive shaft heat shield.

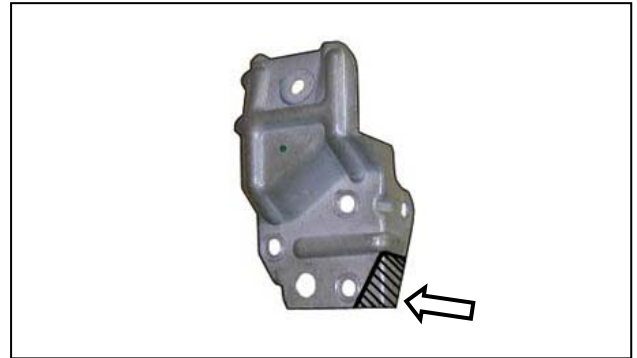
### 3. Kit Installation

#### 3-1 Factory heat shield modification

- (1) Heat shield plate modification  
Trim the shaded area on the heat shield plate that was removed as shown.

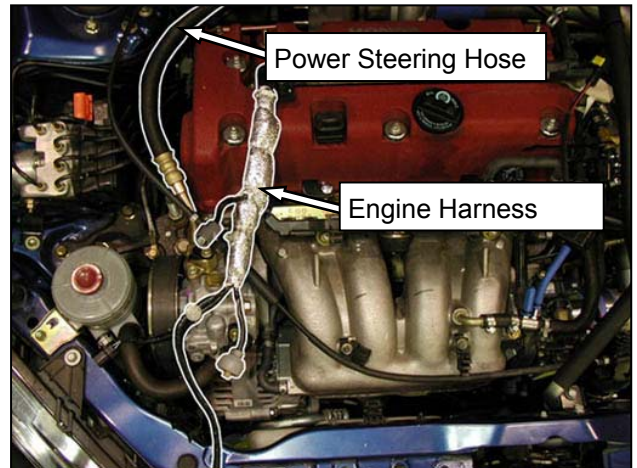


- (2) VTEC Solenoid Valve Assembly heat shield Modification.  
Trim the shaded area on the heat shield that was removed as shown.



#### 3-2 Thermo Cloth Installation

- (1) Disconnect the Crank sensor and Oil Pressure Sensor connector and wrap the thermo cloth to the harness as shown.
- (2) Wrap the thermo cloth to the power steering line by the fire wall.



- (3) Wrap the thermo cloth to the engine harness and the heater hoses by the fire wall.

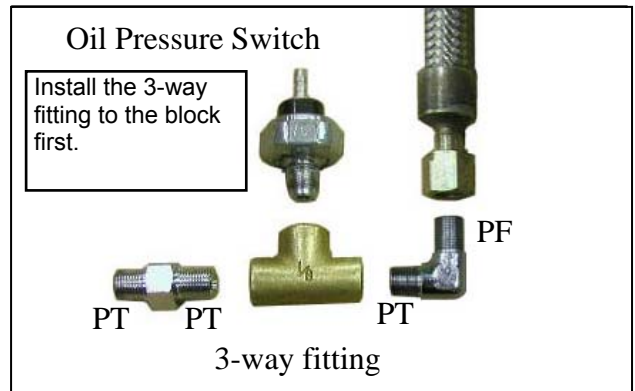


### 3-3 Oil Pressure Line Installation

- (1) Remove the Oil Pressure switch and install the union fitting and 3-way fitting on to the block.

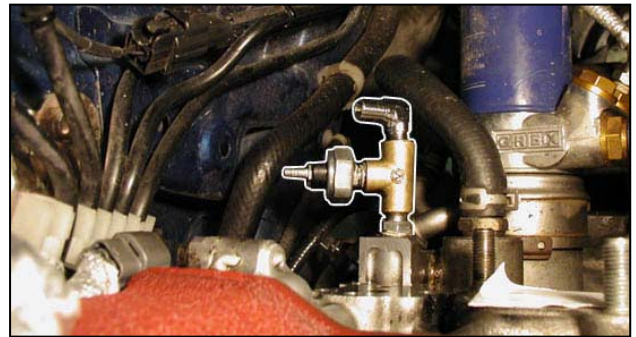
- \* Use Teflon tape on the thread.
- \* Point the 3-way fitting outlet where the oil pressure switch is going to be installed to 2 o'clock.

(Parts used #21,22,23)



- (2) Install the oil pressure switch to the 3-way fitting and reinstall the VTEC solenoid assembly with the modified heat shield.

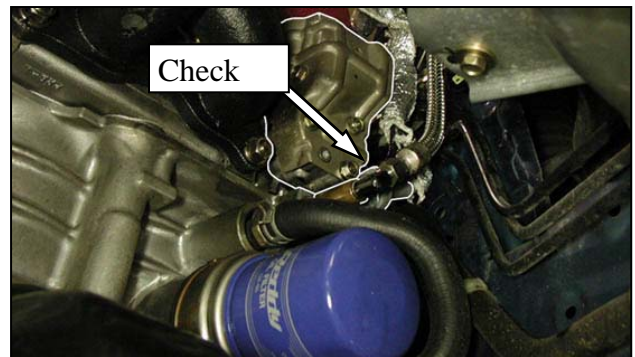
- \* Make sure that the heat shield does not hit the oil pressure switch.



- (3) Reconnect the oil pressure switch harness and the crank sensor.

- (4) Connect the oil pressure line to the installed union fitting.

(Parts used #18)



### 3-4 Exhaust Manifold Installation

- (1) Install three stud bolt on to the cylinder head as shown.

(Parts used #67)

