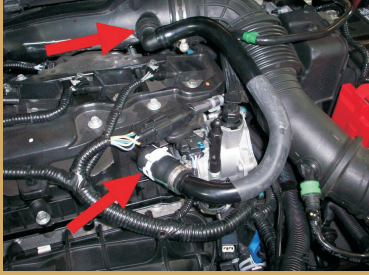


FORD FIESTA ST INTAKE AND TB SPACER

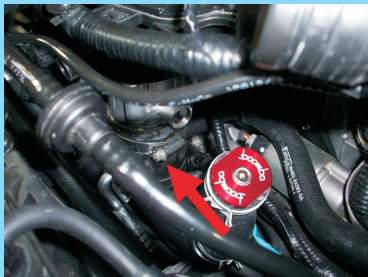
TOOLS REQUIRED

M7, M8, M10, M13, M15, M17, sockets
M13, M15, M17 box wrench
M3, M4, M5, M6, M8 allen wrench
T30 Torx
E8 socket
Pliers
Dremel

MATERIALS REQUIRED

<p>1 When lifting the car always use stands to secure the car.</p>	<p>2 Demo car has the Symposer Delete Kit installed. For the symposer removal see Ford Fiesta ST Symposer Delete Installation Manual.</p>	<p>3 Remove the engine cover.</p>	<p>4 Disconnect the MAP sensor and the VVT solenoid</p>
	<p>Steps necessary for installing the Throttle Body Spacer ONLY have blue background.</p>		
<p>5 Remove the vent line clip.</p>	<p>6 Disconnect the vent line by pulling the ring to the left to unlock it and pulling it out.</p>	<p>7 Disconnect the vent line by pulling the ring to the left to unlock it and pulling it out. Remove the vent line.</p>	<p>8 Disconnect the knock sensors. Remove the wire harness clips.</p>
			
<p>9 Disconnect the vacuum line.</p>	<p>10 Disconnect the vent line from the valve cover.</p>	<p>11 Disconnect the vent line from the engine block.</p>	<p>12 Disconnect the vent line.</p>
			

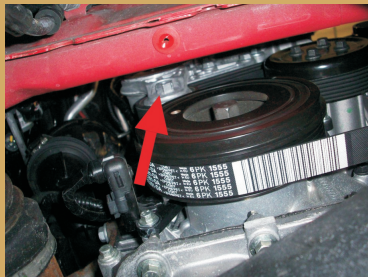
13 Loosen the throttle body hose clamp.



14 Remove the serpentine belt cover.



15 Move the belt tensioner arm and remove the serpentine belt.



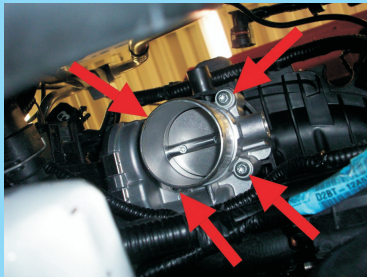
16 Loosen the intake pipe clamp.



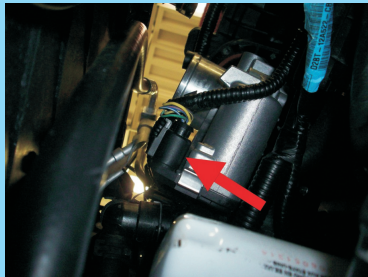
17 Disconnect the vacuum line and the AT sensor. Remove the nut holding the charge pipe to the transmission.



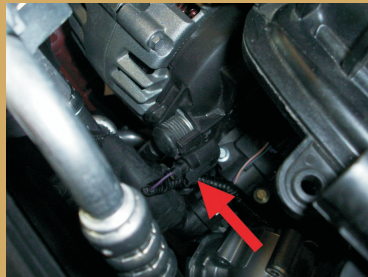
18 Remove the throttle body.



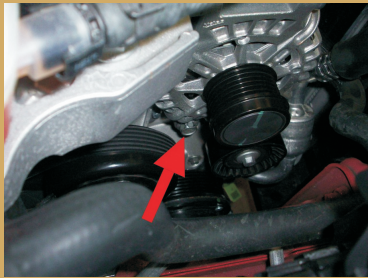
19 Disconnect the throttle body connector.



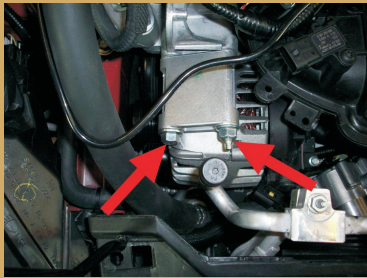
20 Disconnect the alternator wire harness.



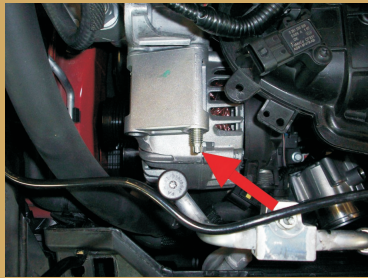
21 Remove the bottom alternator screw.



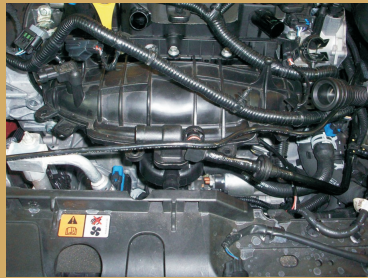
22 Remove the top alternator screw and the nut.



23 Using E30 tool bit remove the alternator stud. Move alternator to the side to expose the intake manifold bolt.



24 Remove the intake manifold's bolts. Two M8 and four M6 bolts.



25 Prepare the Boomba Racing Intake Manifold Spacer.



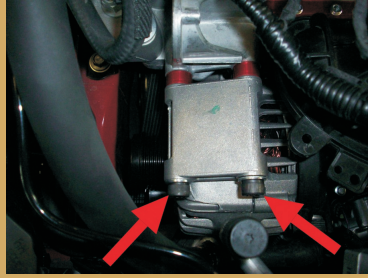
26 Line up the locating pins with the engine head.



27 Reinstall the intake manifold and secure it with the provided longer bolts.



28 Mount alternator to the engine with provided long allen bolts. Longer bolt goes to the right. Insert set of the spical washers between the alternator bracket and the engine. DON'T TIGHTEN THE BOLTS YET.



29

Install the lower alternator blot. TIGHTEN ALL OF THE ALTERNATOR BOLTS.



30

Connect the alternator's connector.



31

Install the serpentine belt.



32



33

Install the serpentine belt cover.



34

Cut 0.950" (24 mm) of the end of the throttle body mounting screws.

ONLY WHEN INSTALLING THE THROTTLE BODY SPACER



35

ONLY WHEN INSTALLING THE THROTTLE BODY SPACER



36

Install the throttle body spacer with the shortened screws.



37

Reconnect the throttle connector.



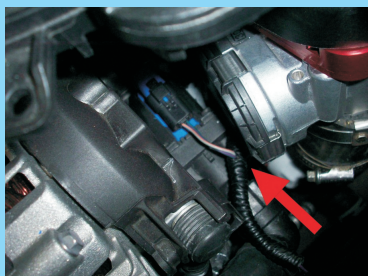
38

Secure the throttle body to the spacer with provided 6 mm allen bolts.



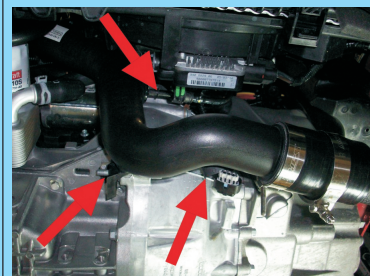
39

Make sure that the alternator wire harness runs under the throttle body and is not pinched between the throttle body and the thermostat.



40

Reinstall the charge pipe. Connect the vacuum line and the AT sensor. Secure the pipe to the engine and tighten all of the hose clamps.



41

Reinstall the vent line. Bottom hose clamp will not go all the way on the connecting nipple. Make sure that bottom hose clamp holds line in place.



42

Reinstall all of the vent lines, vacuum lines. Secure the wire harness to the intake manifold. Connect all electrical connections.



43

Install the cover relocation brackets over the cover posts. Clamp the relocation brackets to the cover posts.



44

Reinstall the engine cover.

