

752750 - Mitsubishi 3-Port Boost Control Solenoid (EBCS)

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Mitsubishi Evolution X GSR, MR, SST, FE 2008-2015

Mitsubishi Lancer Ralliart AT USDM 2009-2015



Congratulations on your purchase of the COBB Tuning 3 Port Electronic Boost Control Solenoid! The following instructions will assist you through the installation process. Please read them BEFORE beginning the install to familiarize yourself with the steps and tools needed. If you feel you cannot properly perform this installation, we HIGHLY recommend you take the vehicle to a qualified and experienced automotive technician.

IMPORTANT! Installing this kit will require custom tuning or utilizing an appropriate Stage Power Package map if you have a matching mechanical configuration. Please consult with COBB or an authorized ProTuner in your area if you have any questions!

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Parts List

- COBB EBCS
- COBB Mounting Bracket
- 50" Silicone Vacuum Line
- (2) M3 x 20 Socket Head Screws
- M6 Hex head bolt
- 6mm Washer
- (6) 4" zip ties

Tools Needed

- Flathead screwdriver
- 3/8" ratchet
- 3/8" 10mm socket
- Needlenose pliers
- Scissors

Mitsubishi Evolution X

1. Locate the factory boost control solenoid near the master cylinder near the firewall on the driver's side of the vehicle.
2. Unplug the brown connector from the factory wiring harness plugs.
3. Using a 10mm socket, unbolt the solenoid with the brown connector from the bracket, leaving the lower solenoid with a black connector installed.
4. Undo the end of the hose going to the wastegate (red end) and the compressor housing on the compressor outlet.



5. Remove the piece of vacuum line with red dashes from the solenoid.
6. Loop the piece of vacuum hose with yellow dashes from one port to the port formerly attached to the red dashed hose on the black connector solenoid, effectively blocking the ports.
7. Install the COBB EBCS onto the bracket as shown below.



8. Attach the brown connector to the COBB EBCS.



9. Using the supplied vacuum line, connect a hose to the port on the intake pipe where there is an existing EBCS line. Then connect it to **P** **ORT 1** on the COBB Solenoid





10. Using some more of the supplied hose, attach a line to the nipple found on the wastegate of the turbo, and route that to **PORT 2**



11. Next run a line from the high pressure boost source (found on the compressor outlet housing of the turbo) and route that to **PORT 3**



12. Ensure all lines are neatly routed with no kinks and away from any heat sources, use zip ties to ensure they aren't flopping around or in the way of other parts operating properly.
13. Flash the appropriate tune for the COBB 3-Port EBCS and you're good to go!

Mitsubishi Lancer Ralliart Installation.

1. Locate the factory boost control solenoid near the master cylinder near the firewall on the driver's side of the vehicle.
2. Unplug the connector from the solenoid
3. Remove the vacuum lines currently installed on the stock solenoid
4. Using a pair of pliers or trim tool, unclip the MAF sensor wiring that goes to the bracket holding the factory solenoid



5. Using a 10mm socket, remove the two bolts that hold the bracket for mounting the stock solenoid
6. Remove the solenoid using a 10mm socket
7. Install the COBB EBCS onto the bracket as shown below.



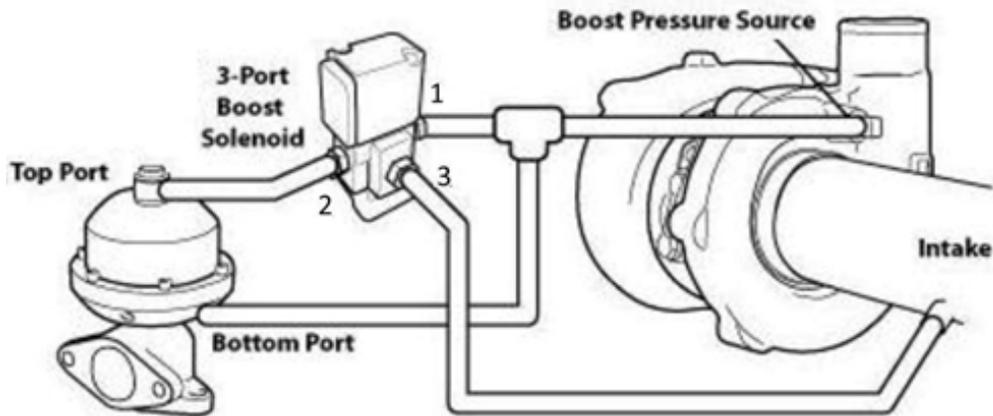
8. Reinstall the bracket to the car and attach the stock connector to the COBB EBCS.
9. Reattach the MAF sensor wiring to the bracket
10. Using the supplied vacuum line, connect a hose to the port on the turbo inlet where there is an existing EBCS line. Then connect it to **PORT 1** on the COBB Solenoid
11. Using some more of the supplied hose, attach a line to the nipple found on the wastegate of the turbo, and route that to **PORT 2**
12. Next run a line from the high pressure boost source (found on the upper intercooler pipe near the compressor housing of the turbo) and route that to **PORT 3**



13. Ensure all lines are neatly routed with no kinks and away from any heat sources, use zip ties to ensure they aren't flopping around or in the way of other parts operating properly.
 14. Flash the appropriate tune for the COBB 3-Port EBCS and you're good to go!
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External Wastegate Installation

1. Port 1 gets Teed into the bottom port of the external wastegate (not on the top) and the compressor housing (boost pressure source)
2. Port 2 get's routed to the top port of the external wastegate.
3. Port 3 is routed to the intake.



Links

[Mitsubishi Map Notes](#)

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Web Support and Tech Articles: [COBB Tuning Customer Support Center](#)

Email: support@cobbtuning.com

Phone support available 9am to 6pm Monday-Thursday, 9am to 4pm Friday (CST)

866.922.3059

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