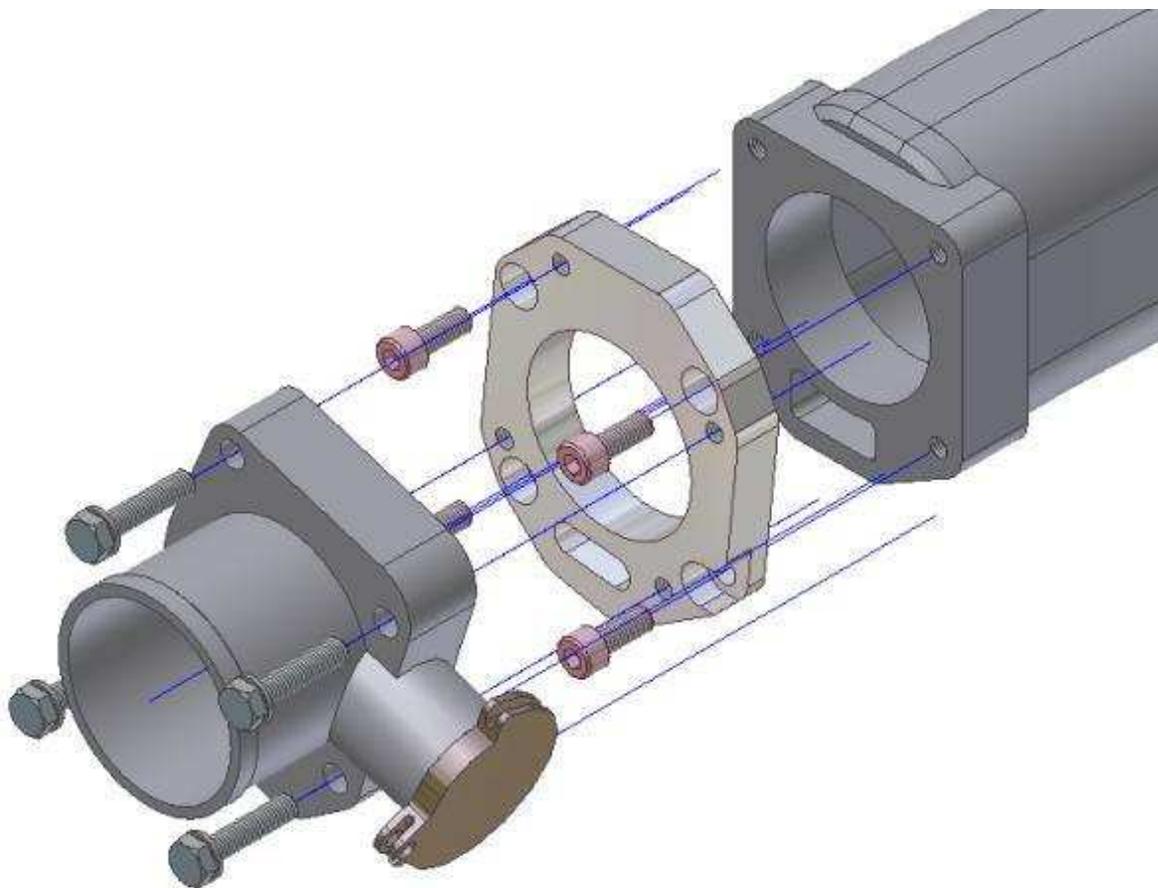


KARCEPTS

ENGINEERED SOLUTIONS



Installation Instructions for Part #: KIM01 K20A/A2/A3/Z1 Throttle Body To RBC/RRB/RBB Intake Manifold Adapter

This adapter provides the SOLUTION for directly bolting up a 02-06 RSX-S/ITR or 02-05 Civic Si/CTR Throttle Body to an Accord Euro R, 06-08 Civic Si, or 04-05 TSX Intake Manifold.

Ease of fitment has been confirmed for the following vehicle/engine/mount combinations:

- 1992-1995 Honda Civics equipped with a K20 engine and Hasport EGK1 engine mounts
- 1996-2000 Honda Civics equipped with a K20/24 engine and Hasport EKK2 engine mounts
- 1994-2001 Acura Integras equipped with a K20 engine and Hasport EGK1 engine mounts
- 2002-2006 Acura RSX-S/Honda ITRs with a K20 engine and all available engine mounts

Note: If attempting to install a throttle body and intake manifold into a vehicle/engine/mount combination not currently confirmed, modifications to your chassis may be extensive.

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Parts Included With K20A/A2/A3/Z1 Throttle Body To RBC/RRB/RBB Intake Manifold Adapter

DESCRIPTION	QTY
INTAKE MANIFOLD ADAPTER	1
M8 SOCKET HEAD CAP SCREW	4
M8 HEX HEAD CAP SCREW	4
M8 LOCK WASHER	4
RUBBER PLUG	2

Tools Required
6mm Allen Wrench
13mm Socket

Additional Parts Needed
Honda P/N: 16176-RBC-004 Throttle Body Gasket
Honda P/N: 16176-PRB-A01 Throttle Body Gasket
Honda P/N: 36283-RAA-A00 Vacuum Hose*
Honda (or equivalent) K20 Intake Manifold Gasket*

Optional Tools*
Sharpie Marker
Vice
Die Grinder
Metal Cutting Wheel
60 Grit Flap Disk
Drill
15/32" Drill Bit

* Required For Adapting a RBC/RRB Intake Manifold onto a 02-06 RSX/ITR
or 02-05 Civic Si/CTR Style Head.

Note: Read all instructions before attempting installation. If you do not believe you are qualified in performing the necessary installation and/or modifications, please find an experienced professional who can. Karcepts, Inc. will not be held responsible for improper modifications to your chassis, engine, or any other associated parts. It is your job to make certain adequate clearances are provided to fit an RBC or RRB intake manifold into your vehicle.

1. PREPARATION

1. Remove the EVAP hose, brake booster hose, PCV hose, vacuum hose, water bypass hoses, throttle cable, fuel lines, fuel injector connectors, IAC valve connector, TP sensor connector, MAP sensor connector, and EVAP canister purge valve connector from your current intake manifold and throttle body setup.
2. Remove the throttle body.
3. Remove the intake manifold brackets, intake manifold, and intake manifold gasket.



If adapting an Accord Euro R or 06 Civic Si intake manifold onto an 02-06 RSX/ITR or 02-05 Civic Si/CTR style head, continue to follow the remaining "PREPARATION" steps, otherwise skip to "INSTALLATION".

1. PREPARATION (continued...)

4. Line up a K20A/A2/A3/Z1 intake manifold gasket with the intake ports of the RBC/RRB manifold, and mark the manifold for cutting.



5. Use a vice to hold the manifold securely, and cut the majority of the coolant passage from the manifold with a metal cutting disk.



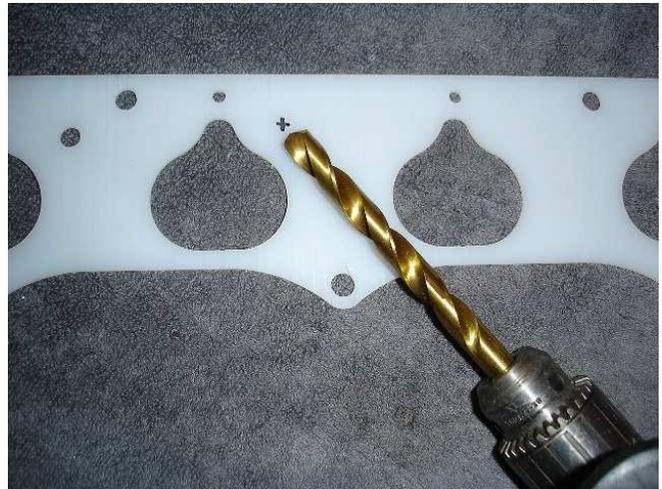
1. PREPARATION (continued...)

6. To clean up the cut and contour the manifold according to the markings, use a 60 grit flap disk with your grinder.



1. PREPARATION (continued...)

7. Locate the port on your RBC/RRB manifold flange that stems from the nipple atop the manifold. Mark and drill a 15/32" hole into the intake manifold gasket to line up with this port. For ease of drilling and sealing, use a Honddata (or equivalent) 02-06 K20 intake manifold heat shield type gasket.



2. INSTALLATION

1. Line up the 16176-RBC-004 throttle body gasket as shown.



2. With a 6mm Allen Wrench, bolt the adapter onto the intake manifold with four M8 socket head cap screws.



3. Line up the 16176-PRB-A01 throttle body gasket as shown.



2. INSTALLATION (continued...)

4. Bolt your K20A/A2/A3/Z1 throttle body to the adapter with the remaining M8 hex head cap screws and M8 lock washers.



5. Actuate your K20A/A2/A3/Z1 throttle body by hand and observe if there are any interferences with the throttle body rotor and the adapter when opening up to simulate full throttle. If any interferences are observed, loosen the M8 hex head cap screws and re-position the throttle body (The K20A/A2/A3/Z1 throttle body has large hole clearances which allow a bit of adjustment if just loosening the hardware and re-adjusting the throttle body position). If the throttle body bore is on-center with the adapter bore, you can observe that no interferences will be seen.



2. INSTALLATION (continued...)

6. If using a K20A/A2/A3 TB, install a provided rubber plug into your RBC/RRB intake manifold MAP sensor port. Use a tool to aid with insertion.



For a K20Z1 TB, relocate the MAP sensor on the TB to the MAP sensor location on the RBC/RRB intake manifold. Then use a provided rubber plug to block the no longer utilized MAP port on the TB.



7. Install the intake manifold and throttle body assembly onto the engine. Reconnect the EVAP hose, brake booster hose, PCV hose, throttle cable, fuel lines, and electrical connectors.



2. INSTALLATION (continued...)

8. If trying to re-connect the stock water bypass hoses, you may find that they are too short with the new throttle body position. You can choose to loop the inlet on the block to eliminate the coolant flow to the throttle body (left image below), or obtain 5/16" I.D. hose to connect the system in stock fashion (right image below).



9. If using a 02-06 RSX/ITR or 02-05 Civic Si/CTR style head, install the 36283-RAA-A00 vacuum hose from the nipple on top of the intake manifold to the intake air bypass control thermal valve.



3. FINAL CHECKS/CLEARANCES

Because of the larger intake manifold being utilized, even in a confirmed vehicle, there are some close interferences where precautions may need to be made. The two major concerns are shown below. The IAC valve and TP sensor connector will get close to the radiator and upper radiator hose. Depending on the type of radiator, radiator fan, radiator placement, and upper radiator hose being used, there may be a possible interference concern in this area. Additionally, the EVAP canister purge valve atop the K20A/A2/A3/Z1 throttle body may prohibit closure of some hoods. It may be a requirement to bend in or cut a small piece out of the inner skeleton in order to close the hood on your vehicle. Another option is to completely remove the EVAP valve altogether (an additional rubber plug is provided to plug the unused port with EVAP valve removal). It will be at the sole discretion of the installer to resolve any potential issues in these areas.



With regards to a 2002-2006 Acura RSX-S/Honda ITR, the above mentioned issues will be of no concern; however, reconfiguration of the stock AC brackets will be required (as shown below). Additionally, the hood stay holder will need to be removed/modified on that chassis.



Note: An RSX-S Injen CAI will mount directly up to a 2002-2006 Acura RSX-S/Honda ITR utilizing an RBC/RRB intake manifold and this adapter.

**CONGRATULATIONS! YOUR RBC/RRB/RBB
INSTALLATION SHOULD NOW BE COMPLETE!!!**



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