HASPORT PERFORMANCE

INSTALLATION INSTRUCTIONS

Installation Instructions For:
Part Number EGK2
for K-series engines
into the 1992-1995 Honda Civic
and 1994-2001 Integra

Hasport Performance mounts and mount kit accessories are designed in house using the latest in CAD/CAM Engineering software. The designs are the result of many years of pioneering Honda engine swaps and Hasport's extensive racing experience. Each mount is constructed of lightweight 6061-T6-billet aluminum and CNC machined in our state of the art machining facility. Hasport Performance motor mounts control engine movement, transferring more power to the wheels. All mounts and brackets have a limited lifetime warranty against any defects. Complete warranty information is available at www.hasport.com.

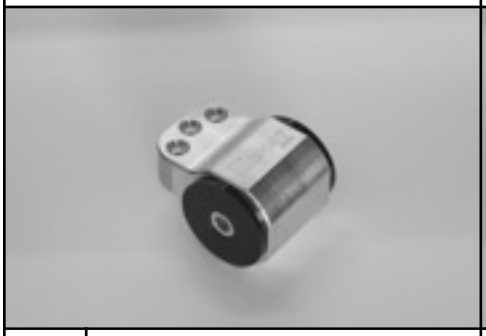
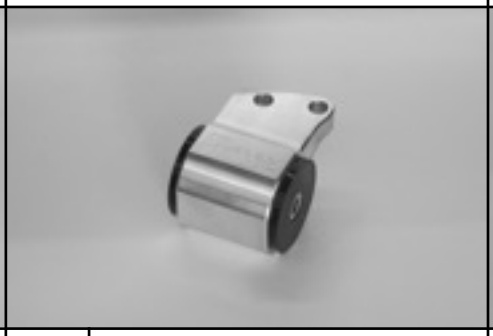
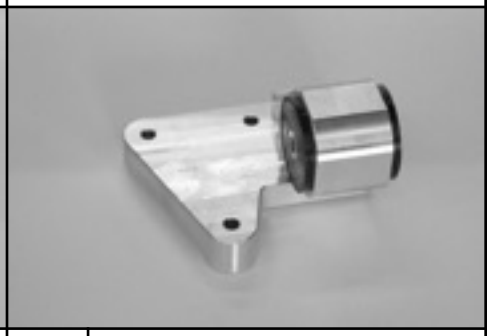
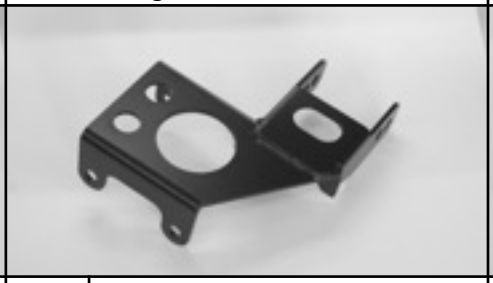
Please read all instructions before proceeding with the installation

EGK2

WARNING:

The instructions here, deal only with the installation of K-series engines using Hasport's EGK2 mount kit. There are no instructions for hooking up air conditioning, wiring, emissions equipment, transmission, exhaust or other peripherals. Please read through the entire instructions before installing these parts. If you have questions regarding other aspects of this installation please call Hasport @ 602.470.0065

List of Parts included in EGK2 Mount kit:

Left Mount		Right Mount		Rear Mount	
					
Qty	Hardware Description	Qty	Hardware Description	Qty	Hardware Description
3	M10 x 1.25 x 40mm SHCS	1	M12 x 1.25 x 120mm Bolt	2	M10 x 1.25 x 45mm Bolts
3	M10 Nylon Nuts	2	M12 Nyloc Nut	1	M10 x 1.25 x 55mm Bolt
3	M10 Flat Washers	4	M12 Flat Washers	3	M10 Flat Washers
		1	M12 x 1.25 x 45mm Bolt	1	M12 x 1.25 x 100mm bolt
				1	M12 Nylon Nut
				2	M12 Flat Washer
Left-hand Bracket		Right-hand Bracket		Rear Bracket	
					
Qty	Hardware Description	Qty	Hardware Description	2	M12 x 1.25 x 70mm bolts
3	M12 x 1.25 x 35mm	2	M10 x 1.25 x 150mm Bolt	1	M12 x 1.25 x 60mm bolt
3	M12 Flat Washers	2	M10 Nyloc Nut	3	M12 Flat Washer
		4	M10 Flat Washers		

Additional Recommended Items
Factory Service Manual for the chassis you are using
(Available from www.helminc.com or Honda/Acura Dealer)

Please read all instructions before proceeding with the installation

If you have never performed an engine swap before, Hasport recommends that you have this swap performed by a competent shop. These instructions pertain **ONLY** to the **ENGINE MOUNTING** of a K-series engine and motor into the 1992-1994 Honda Civic and 1994-2001 Acura Integra. There may be other parts including intake manifold, exhaust, wiring, radiator hose adapters and other parts needed for proper operation. These parts may be available from Hasport and other companies.

The EGK2 mount kit is designed to install K-series engines . This should help reduce wheel hop caused by engine movement, and reduce stress on components such as exhaust and intercooler connections. Because the mounts are stiffer, vibration may result.

It is important to remember that engine swaps are not legal in all states or countries. It is best to check local laws regarding engine swaps before proceeding.

The engine mounts have been tested with a range of K-series engines. The K24 engine is 19mm taller than the K20 engines. These mounts are designed to mount the engine at two different heights to keep the K20 and K24 cylinder head in the same place. That means the oil pan will sit 19mm lower when using the lower mounting points. Headers, intakes and turbo kits designed to work with this kit should not need to be modified if a different engine is used. Some K-series engines may not work. Here is a list of the current engines that have been tested with the mount kit. Installing K24 engine will require use of the CRV block bracket and can be purchased from Honda – part number 11910-PPA-000.

K24A2 (2004-2008 Acura TSX)
K24A4 (2003-2005 Honda Accord)
K20Z3 (2006-2011 Honda Civic Si)
K20A2 (2002-2004 Acura RSX)
K20A3 (2002-2006 Acura base model, 2003-2005 Honda Civic Si)
K20Z1 (2005-2006 Acura RSX)
K24A1 (2002-2006 Honda CR-V)

This kit will not fit all K-series transmissions. It will fit the following transmissions.

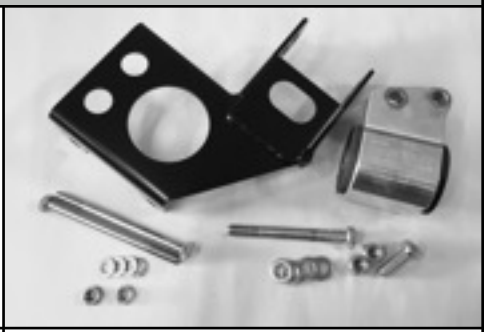
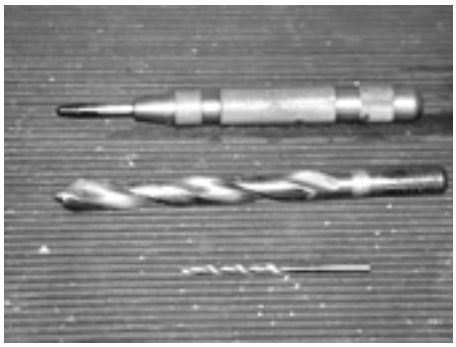
2001-2006 Acura Integra 5 and 6-speed manual transmission
2002-2005 Civic Si 5-speed manual transmission
2006-2011 Civic Si 6-speed manual transmission

About this kit:

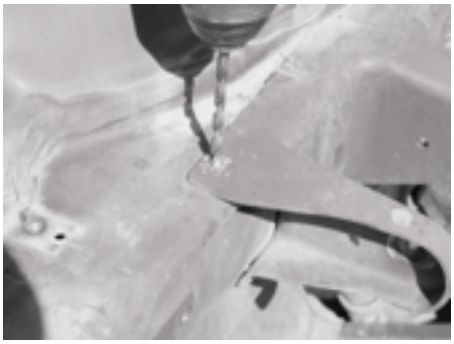
The mounts are designed to hold the K20 and K24 engines with the head in the same place. If you are mounting the engine in the higher position the mounts would look like the pictures below. The left-hand mount is oriented with the flange high. The fight-hand mount is bolted to the bracket using the top holes. There rear mount bracket is bolted to the mount using the bottom holes. To mount the engine in the lower position left-hand mount would be installed flange low and the alternate holes would be used on the right and rear brackets.

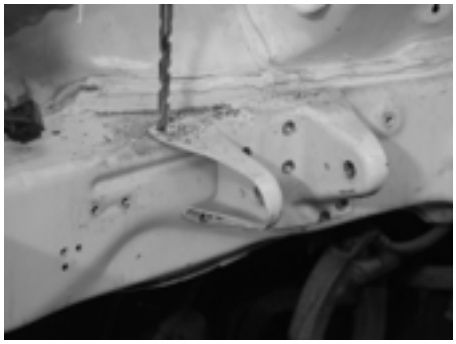


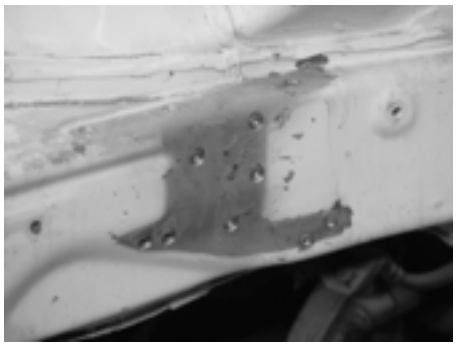
Preparing the Engine Bay:

1	Here is the passenger side frame rail bracket and mount with hardware. The major change to the engine bay is the installation of the new passenger side engine bracket from Hasport. It will replace the current right-hand transmission bracket in the car.	
2	To make removing the existing transmission bracket easier, you will need these tools: Center punch 1/8 inch drill bit 3/8 or 1/2 inch pilot point drill bit	
3	Begin by center punching all the spot-welds on the mount. This is so the drill bit won't drift when drilling. Next use the 1/8 inch drill to drill a hole approximately 3/16 inches deep. This will prevent the pilot point drill from drifting. Don't worry if you drill completely through the sheet metal. Now use the pilot point drill to drill a hole as deep as the bracket sheet metal is thick.	

Preparing the Engine Bay:





4	A chisel and hammer can now be used to finish removing the bracket. Once it is off use the die grinder with a sanding wheel to remove any left over material and smooth the frame rail so the new bracket sits flush	
6	To properly attach the Hasport mount bracket on the frame rail, two holes will need to be drilled in the frame rail. Start by sliding the bracket over the frame rail so the holes at the bottom of the bracket line up with the torque mount holes on the bottom of the frame rail. Next mark the frame rail on the top using the mount bracket as a guide. After removing the bracket, use a 3/8ths inch drill bit and drill the two holes in the frame rail.	

7	Slide the bracket back on the frame rail and thread the two M10 x 150mm bolts down through the bracket and out the bottom. Tighten the bolts to about 10ft/lbs of torque. Be careful to check the alignment of the bracket so the bolts thread easily all the way through the bracket. Do not over tighten as it will bend the bracket.	

Preparing the Engine Bay:		
8	Using a wrench to keep the bolt from moving install the 10mm Nyloc nuts and tighten the nuts to 36 ft/lbs of torque.	
9	To install the rear mount you will need the 2 M10 x 45mm bolts and 1 M10 x 55mm bolt with washers. Using the shorter bolts in the rear house and the longer one in front, install the new Hasport rear engine mount on the rear engine crossmember.	

Mounting the engine:		
1	Here is the left-hand mount, bracket, and hardware. The mount can be bolted to the bracket with either side oriented up to adjust the height of the engine.	
2	Bolt the left-hand mount to the transmission bracket using three M10 x 40mm SHCS with M10 washers and Nyloc nuts. The mount should be oriented so the flange is in the high position as shown if you are mounting a K20.	

Mounting the engine:		
	It would be flipped with the flange low if the engine is a K24. Leave the bolts finger tight at this time.	
3	Put the engine in the car and install the left-hand mount with bracket. The engine should be oriented so the left-hand bracket can be threaded to the transmission by hand. Be careful not to cross thread the bolt into the transmission. Leave the bolt finger tight at this time. Use the 30mm bolt on the front bolt hole and the 35mm bolts on the car holes.	
4	Using the M12 x 120mm bolt, bolt the right-hand mount to the Hasport bracket. Then using the M12 x 35mm bolt and M12 Nyloc nut with washers bolt the mount to the block bracket.	
5	Install the rear engine bracket using the M12 x 60mm bolt to attach it to the transmission and the M12 x 100mm bolt to attach it to the rear mount. Next thread the two M12x 70mm bolts through the bottom holes in there bracket into the transmission. Torque all the bolts to 43 ft/lbs.	

Finish:	
	  
1	**Wrapping it up** Take a quick look at all the mounts and see if everything looks square. If not, support the engine from underneath and loosen the problem mount or bracket and straighten it. Shifting the engine forward or back usually helps with alignment problems. This should be easy with the mount loose. Finally retorque all the mount and bracket bolts holding the engine. M10 bolts should be torqued to 33 ft/lbs and M12 bolts to 43 ft/lbs.