

DETERMINATOR™

KIA 1

The KIA 1 **DETERMINATOR™** works on KIA vehicles using the X233/X240 and X253 key blanks. When used properly you will be able to generate a key for a vehicle in just a few moments.

There are two tools in the KIA 1 **DETERMINATOR™** set. Each tool is for a specific lock system. Make sure you read and follow the instructions for the vehicle you are working on.

One tool is stamped with "A" and will work on vehicles requiring the KK1 or KK2 keyblank.

The tool stamped "C" will work on vehicles using the KK3 and KK4 keyblanks.

The **DETERMINATOR™** is a decoding tool and a tumbler release tool.

The **DETERMINATOR™** has numbers stamped on the side of the blade. These numbers correspond to the tumbler space locations. When the **DETERMINATOR™** traps a tumbler, take note of the number closest to the face of the lock. That is the space that is being determined. You will then use the release tool to raise the trapped tumbler. Slide the release tool along the slot milled in the side of the tool, sloped end first. You will feel it raise the tumbler, slowly pull the **DETERMINATOR™** out a little to the next space and remove the release tool.

THE "A" TOOL

When the **DETERMINATOR™** traps a tumbler you know that it is a 3 or a 4 depth tumbler. Spaces that pass you will know are a 1 or a 2 depth tumbler. You can make your cuts as 1 ½ depths and 3 ½ depths and use it as a try-out key, **OR** you may want to make your cuts as 1 depths and 3 depths and then impression down from there. You should try both ways and see what works best for you.

Use the **DETERMINATOR™** to decode spaces 1-7 in the door lock.



The KIA 1 Determinator™ uses the modified release tool.

STEPS

1. Degrease the passenger door lock with a quick drying spray and run a key blank in and out a few times.
2. Insert the **DETERMINATOR™** fully into the door lock.
3. Slowly pull the **DETERMINATOR™** out of the lock with a slight left and right motion.
4. When the **DETERMINATOR™** traps a tumbler, take note of the space, and record it as a 3 depth (or a 3 ½ depth.)
5. Use the release tool and proceed to the next space.
6. When you are done decoding the lock, then ANY space that DID NOT trap you will make as a 1 depth (or a 1 ½.)
7. Cut a key, insert it into the lock and turn. You may want to use your impressing pliers for a little more torque. Use your locksmithing judgement on how far to turn the key.
8. Look for impression marks. If a space that had a 1 (or a 1 ½) depth marks make it a 2 depth. If a space that had a 3 (or a 3 ½) depth marks make it a 4 depth.
9. Adjust your cuts as necessary. You will now have working key for the vehicle.

INSTRUCTIONS CONTINUED ON NEXT PAGE.

THE "C" TOOL

When the **DETERMINATOR™** traps a tumbler you know that is a 3 or a 4 depth tumbler. Spaces that pass you will know are a 1 or a 2 depth tumbler. You can make you cuts as 1 ½ depths and 3 ½ depths and use it as a try-out key, **OR** you may want to make your cuts as 1 depths and 3 depths and then impression down from there. You should try both ways and see what works best for you.

Use the **DETERMINATOR™** to decode spaces 1-8 in the door lock. Tumblers are located on **both** sides of the lock.

STEPS

1. Degrease the passenger door lock with a quick drying spray and run a key blank in and out a few times.
2. Insert the **DETERMINATOR™** fully into the door lock.
3. Slowly pull the **DETERMINATOR™** out of the lock with a slight left and right motion.
4. When the **DETERMINATOR™** traps a tumbler, take note of the space, and record it as a 3 depth (or a 3 ½ depth.)
5. Use the release tool and proceed to the next space.
6. Decode BOTH sides of the door lock. Record only the spaces that get trapped
7. When you are done decoding BOTH sides of the lock, then ANY space that DID NOT trap you will make as a 1 depth (or a 1 ½.)
8. Cut a key, insert it into the lock and turn. You may want to use your impressing pliers for a little more torque. Use your locksmithing judgement on how far to turn the key.
9. Look for impression marks. If a space that had a 1 (or a 1 ½) depth marks make it a 2 depth. If a space that had a 3 (or a 3 ½) depth marks make it a 4 depth.
10. Adjust your cuts as necessary. You will now have working key for the vehicle.

FRAMON CUTTING INFORMATION

DETERMINATOR	CUTS START	CUT TO CUT	DEPTHS			
			1	2	3	4
KIA 1	.098	.098	1=.280	2=.260	3=.240	4=.220

HPC CARD - CF301 X233/X240
N/A X253

Make and model	Year	DETERMINATOR	Key	Tumbler placements	
				doors	ignition
KIA					
Sephia, Spectra, Rio	98-up	KIA 1	X253	1-8	1-8
	95-97	KIA 1	X233	1-7	1-7
Sportage	2001- up	KIA 1	X267	1-8	1-8
	95-2000	KIA 1	X240	1-7	1-7