

# DETERMINATOR™ HYU 4

The HYU 4 **DETERMINATOR™** works on Hyundai Excel, Scoupe and Mitsubishi Precis vehicles using the X196 key blank. When used properly you will be able to generate a key for a vehicle in just a few moments.

There is one tool in the HYU 4 **DETERMINATOR™** set.

The tool cut on the X196 key works the Hyundai Excel and Scoupe and the Mitsubishi Precis.

## THE TOOL

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

The **DETERMINATOR™** works by trapping the 3 and 4 depth tumblers. It will pass the 1 and 2 depth tumblers.

The **DETERMINATOR™** has numbers stamped on both sides of the blade. These numbers correspond to the tumbler space locations. When the **DETERMINATOR™** traps tumbler, take note of the number closest to the face of the lock. That is the space being determined as a 3 or 4 depth cut. 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.

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.

**NOTE:** All locks have tumblers on both sides.

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

**NOTE: ON 86-89 EXCELS AND PRECIS USE THE SPACE NUMBERS STAMPED IN THE SLOT OF THE BLADE, ON ALL OTHER VEHICLES USE THE SPACE NUMBERS ON THE SIDE WITHOUT THE SLOT. THIS IS NECESSARY TO ENSURE YOU HAVE THE CORRECT SPACE NUMBER.**



The HYU 4 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. 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 impressioning 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 a working key for the vehicle.

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**FRAMON CUTTING INFORMATION**

DETERMINATOR	CUTS START	CUT TO CUT	DEPTHS			
HYU 4 (X196)	.098	.098	1=.284	2=.264	3=.244	4=.224
			1½=.274	2½=.254	3½=.234	
(X160)	.098	.098	1=.276	2=.256	3=.236	4=.213
			1½=.266	2½=.246	3½=.226	

HPC CARD - CF211 X196  
CF201 X160