DETERMINATOR™
GM 8

The GM 8 **DETERMINATOR™** set works on all GM vehicles using the GM ten cut system on the B110 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 GM 8 **DETERMINATOR™** set.

THE TOOL

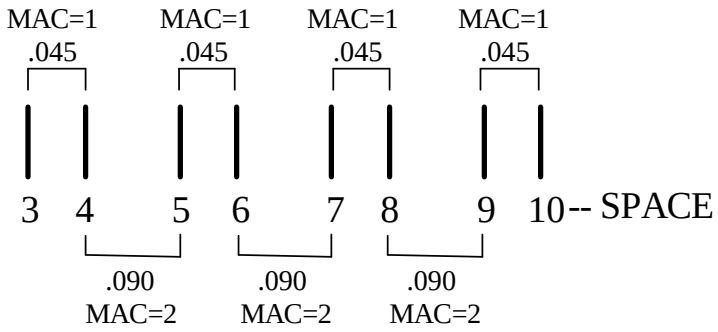
The **DETERMINATOR™** is a decoding tool and a tumbler release tool.
The **DETERMINATOR™** works by trapping the 3 and 4 depth tumblers. It will pass the 1 and 2 depth tumblers. The **DETERMINATOR™** has numbers stamped on the side of the blade. These numbers correspond to the tumbler space locations. When the **DETERMINATOR™** traps a tumbler, take note of the number closest to the face of the lock. That is the space 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 cuts as 1 ½ depths and 3 ½ depths and use it as 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: Each chamber contains 2 tumblers. As shown in the figure below, spaces 3 and 4 share a chamber. The tumblers are bidirectional. The center-to-center spacing of the tumblers is .045". Spacing between chambers is .090".

DOOR LOCK ILLUSTRATED BELOW

Odd spaces are located on the bottom of the cylinder. Even spaces are located on the top of the cylinder.



Shared tumblers in a chamber have a MACs of 1.
IF space 3 traps and space 4 does not, then space 3 is a 3 depth and space 4 is a 2 depth.

The MACs is 2 between the spaces for pairs:
Space 2 to space 3, space 4 to space 5, space 6 to space 7, space 8 to space 9.

INSTRUCTIONS CONTINUE ON NEXT PAGE

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NOTE: All locks have tumblers on both sides.

Use the **DETERMINATOR**™ to decode spaces 3-10 in the door lock.

After you determine your 1 (or 1 ½) and 3 (or 3 ½) cuts you have two choices to determine the final cuts.

1. Impression from the door lock, using 1(1½) and 3 (3½)depths. Once you get a key to work in the door, progress spaces 1 and 2 from the ignition.
2. Decode the door lock and make your depths 1 ½ and 3 ½. Then you can use ½ cut progression in the ignition lock. Once you have a key that will turn in the ignition you can adjust your cuts. See ½ cut progression chart below.

METHOD 2 WORKS THE BEST.

NOTE: When you work on the door lock, make all your even spaced cuts on one side of the key and all the odd spaced cuts on the other side. Widen your cuts. Be sure to keep track of the tumbler locations when you use the **DETERMINATOR**™.

The GM 8 Determinator™ uses the modified release tool.

STEPS

1. Lubricate 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).
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). **See note above.**
8. Cut a key and 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.

FRAMON CUTTING INFORMATION

DETERMINATOR		**CUTS START**	**CUT TO CUT**	**DEPTHS**			
GM 8	ODD SPACES	.400	.135	1=.323	2=.299	3=.276	4=.252
	EVEN SPACES	.445	.135	1½=.311	2½=.288	3½=.266	

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2 space progression chart

1 1	2 1	3 1
1 2	2 2	3 3
1 3	3 2	
2 3	4 2	
2 4	4 3	
3 4		
4 4		

2 space ½ cut progression chart

A = 1 ½
B = 3 ½

A A	B A
A B	
B B	

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