

# DETERMINATOR™ GM 4

The GM 4 **DETERMINATOR™** set works on the GM ORTEC lock system. When used properly you will be able to generate a key for a vehicle in just a few moments.

There are three tools in the GM 4 **DETERMINATOR™** set.

These tools have small notches cut in the edge of the blade. These are stamped with the numbers **2**, **3**, and **4**. They are used to decode the glove box.

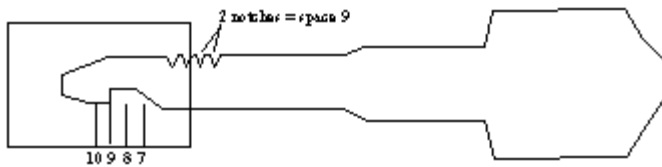
## THE TOOLS

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

When the **DETERMINATOR™** traps a tumbler you will use the spring steel release tool to raise the tumbler and withdraw the **DETERMINATOR™** to the next tumbler location. Slide the release tool along the slot 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 GM 4 Determinator™ uses the modified release tool.



If you see 1 notch = space 10  
If you see 2 notches = space 9  
If you see 3 notches = space 8  
If you see 4 notches = space 7  
Tumblers on bottom of lock.

## STEPS

### DECODE THE GLOVE BOX

1. Insert the **4** tool into the glove box lock with the trap facing down.
2. Slowly withdraw the tool from the lock. When the tool traps a tumbler, count the number of notches visible on the edge of the blade. Record a 4 in the appropriate space. Leave a blank in the spaces that passed.
3. Use the release tool to release the tumbler and continue to the next space.
4. When you have finished with the **4** tool, insert the **3** tool into the lock with the trap facing down.
5. Slowly withdraw the tool from the lock. When the tool traps a tumbler in a space that is blank, count the number of notches visible on the edge of the blade. Record a 3 in the appropriate space. Leave a blank in the spaces that passed.
6. Use the release tool to release the tumbler and continue to the next space.
7. When you have finished with the **3** tool, insert the **2** tool into the lock with the trap facing down.
8. Slowly withdraw the tool from the lock. When the tool traps a tumbler in a space that is blank, count the number of notches visible on the edge of the blade. Record a 2 in the appropriate space.
9. Use the release tool to release the tumbler and continue to the next space.
10. When you have finished with the **2** tool record a 1 in any space 7-10 that is blank.
11. Cut a key with these cuts in spaces 7-10 and check for smooth operation in the glove box.
12. Once you have a key that works the glove box, use progression charts.

**PROGRESS SPACES 4, 5, AND 6 FROM DOOR**

1. Cut spaces 7-10 on both sides of a key blank.
2. Use the following progression chart for spaces 4, 5, and 6. Make your cuts on both sides of the key blank.
3. Cut a key, insert it into the lock and turn the key. You may want to use your impressing pliers for a little more torque. Use your locksmithing judgement on how far to turn the key.

**3 SPACE ½ CUT PROGRESSION CHART FOR DOOR LOCK**

AAA	ABA	BAA
AAB	BBA	BAB
ABB		
BBB		

**A= 1 ½    B= 3 ½**

4. Once you have a key that turns in the lock adjust your ½ cuts as necessary.
5. When you have a working key, transfer cuts to both sides of the key blank.

**PROGRESS SPACES 1, 2, AND 3 FROM IGNITION.**

1. Use the following progression chart for spaces 1, 2, and 3. Make your cuts on both sides of the key blank.
2. Cut a key, insert it into the ignition lock and turn the key. You may want to use your impressing pliers for a little more torque. Use your locksmithing judgement on how far to turn the key.

**3 SPACE ½ CUT PROGRESSION CHART FOR IGNITION LOCK**

AAA	A3A	3AA
AAB	33A	3AB
A3B		
33B		

**A= 1 ½    3= 3    B= 3 ½**

3. Once you get a key working in the ignition, adjust your cuts as necessary.
4. When you have a working key transfer cuts to both sides of a key blank.

**RULES**

You will not have three of the same depth in a row.  
 No 4 depth in spaces 1 and 2.  
 You can have a 1 depth in space 10.

**FRAMON CUTTING INFORMATION**

DETERMINATOR	CUTS START	CUT TO CUT	DEPTHS			
			1=.315	2=.290	3=.265	4=.240
GM 4	.216	.092	1=.315	2=.290	3=.265	4=.240
(tip stop)			1½=.303	2½=.278	3½=.253	

HPC CARD - CF215