

DETERMINATOR™

MAZ 1

The MAZ 1 **DETERMINATOR™** set works on Mazda vehicles using the code series 6500-7733 on the X131 or similar key blank. When used properly you will be able to generate a key for a vehicle in just a few moments.

MAZDA

YEAR	MODEL
83-92	626, MX 6
88-91	929
83-89	323, Protege
83-92	RX7
83-93	Trucks

MERCURY

YEAR	MODEL
91-94	Capri
87-90	Tracer

FORD

YEAR	MODEL
89-93	Festiva
88-92	Probe

Rules about Mazda codes:

1. Every depth is used at least once.
2. All cuts add up to be even.
3. No depth is used more than two (2) times in a row.
4. No depth is used more than three (3) times.
5. MACS is two (2).

There is one tool in the MAZ 1 **DETERMINATOR™** set.

The **DETERMINATOR™** determines the depth of a tumbler by trapping the 3 and 4 depth tumblers and passing the 1 and 2 depth tumblers. As you decode the lock record an "A" if the **DETERMINATOR™** passes a tumbler and record a "B" if it is trapped. Cut all "A" cuts to a 1 ½ depth, and cut all "B" cuts to a 3 ½ depth. The result is a custom half-cut tryout key.

THE TOOL

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 tool is inserted into the lock, the number closest to the face of the lock indicates the space which is being determined.

When the **DETERMINATOR™** traps a 3 or 4 depth 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.

NOTE: All locks have tumblers on only one side. Most vehicles contain all seven (7) spaces in the door lock. SOME cars may have spaces 1, 3, and 4 **OR** 2, 3, and 4 missing from the door lock. After you decode the door lock and the key turns, IF you have an **A** cut on spaces 1, 3, and 4 **OR** 2, 3, and 4, you MAY have a lock without tumblers in those spaces. Cut **B** depths on spaces 3 and 4 then try the key.

1. If the key does not turn, then those spaces are A depths. Cut a new key with your original depths.
2. If the key still turns, then the lock does not have tumblers in those spaces. Cut a new key with your known depths and progress or impression the missing spaces from the ignition lock.

THREE SPACE ½ CUT PROGRESSION CHART

AAA	ABA	BAA
AAB	BBA	BAB
ABB		
BBB		



The MAZ 1 Determinator™ uses the modified release tool.

STEPS

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

HOW TO USE THE **DETERMINATOR™**

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.
4. When the **DETERMINATOR™** traps a tumbler, take note of the space, and record a "B" on your chart.
5. Use the release tool and proceed to the next space.
6. Record only the "B" cuts. When you are done you will have all your "B" spaces, THEN all other spaces will be "A" cuts.
7. 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.
8. Look for impression marks. Any "A" cut that marked you will cut to a 2 depth. Any "B" cut that marked you will cut to a 4 depth. "A" cuts that did not mark make a 1 depth, and "B" cuts that did not mark make a 3 depth.
9. You will now have an operable key for the door lock.
10. Progress or impression any missing spaces from the ignition lock as noted above.

FRAMON CUTTING INFORMATION

DETERMINATOR	CUTS START	CUT TO CUT	DEPTHS			
			1=.315	2=.295	3=.276	4=.256
MAZ 1 (use ford 5 clip)	.088	.0985	1=.315	2=.295	3=.276	4=.256
			1½=.305	2½=.286	3½=.266	

HPC CARD - XF65