



# CVE-2022-36945

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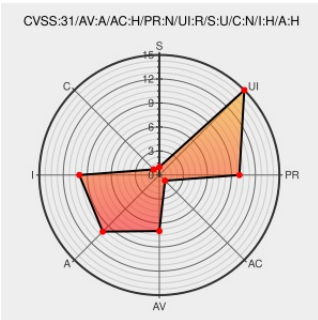
## CVE-2022-36945

Source: Mitre

Source: NIST

CVE.ORG

Print: PDF



Certain versions of Mazda from Mazda contain the following vulnerability:

The Remote Keyless Entry (RKE) receiving unit on certain Mazda vehicles through 2020 allows remote attackers to perform unlock operations and force a resynchronization after capturing three consecutive valid key-fob signals over the radio, aka a RollBack attack. The attacker retains the ability to unlock indefinitely.

CVE-2022-36945 has been assigned by cve@mitre.org to track the vulnerability - currently rated as **MEDIUM** severity.

CVSS3 Score: **6.4 - MEDIUM**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
<b>ADJACENT_NETWORK</b>	<b>HIGH</b>	<b>NONE</b>	<b>REQUIRED</b>
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
<b>UNCHANGED</b>	<b>NONE</b>	<b>HIGH</b>	<b>HIGH</b>

## CVE References

Description	Tags	Link
Black Hat USA 2022   Briefings Schedule	<a href="http://www.blackhat.com">www.blackhat.com</a> text/html	MISC <a href="http://www.blackhat.com/us-22/briefings/schedule/#rollback---a-new-time-agnostic-replay-attack-against-the-automotive-remote-keyless-entry-systems-27185">www.blackhat.com/us-22/briefings/schedule/#rollback---a-new-time-agnostic-replay-attack-against-the-automotive-remote-keyless-entry-systems-27185</a>
RollBack - A New Time-Agnostic Replay Attack Against the Automotive Remote Keyless Entry Systems   by cs.lev   Medium   CodeX	<a href="http://medium.com">medium.com</a> text/html	MISC <a href="https://medium.com/codex/rollback-a-new-time-agnostic-replay-attack-against-the-automotive-remote-keyless-entry-systems-df5f99ba9490">medium.com/codex/rollback-a-new-time-agnostic-replay-attack-against-the-automotive-remote-keyless-entry-systems-df5f99ba9490</a>
Is Your Car Key Fob Vulnerable to This Simple Replay Attack?   PCMag	<a href="http://www.pcmag.com">www.pcmag.com</a> text/html	MISC <a href="http://www.pcmag.com/news/is-your-car-key-fob-vulnerable-to-this-simple-replay-attack">www.pcmag.com/news/is-your-car-key-fob-vulnerable-to-this-simple-replay-attack</a>
RollBack Breaks Into Your Car   Hackaday	<a href="http://hackaday.com">hackaday.com</a> text/html	MISC <a href="https://hackaday.com/2022/08/17/rollback-breaks-into-your-car/">hackaday.com/2022/08/17/rollback-breaks-into-your-car/</a>

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There are currently no QIDs associated with this CVE

### Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Hardware	<a href="#">Mazda</a>	<a href="#">Mazda</a>	-	All	All	All
Operating System	<a href="#">Mazda</a>	<a href="#">Mazda Firmware</a>	All	All	All	All
<code>cpe:2.3:h:mazda:mazda:-:*:*:*:*:*:</code>						
<code>cpe:2.3:o:mazda:mazda_firmware:*:*:*:*:*:</code>						

No vendor comments have been submitted for this CVE

### Social Mentions

Source	Title	Posted (UTC)
@CVEreport	CVE-2022-36945 : The Remote Keyless Entry RKE receiving unit on certain Mazda vehicles through 2020 allows remote... <a href="https://twitter.com/i/web/status/1...">twitter.com/i/web/status/1...</a>	2022-08-24 06:05:20
@vuldb	[Video] Some new videos added describing CVE-2022-37418, CVE-2022-37305 and CVE-2022-36945 <a href="https://vuldb.com/?videos">vuldb.com/?videos</a>	2022-08-24 11:42:07
/r/netcve	<a href="#">CVE-2022-36945</a>	2022-08-24 06:38:11

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