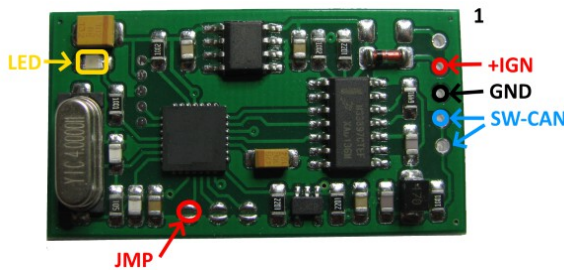# GM PASSKEY

immo emulator

**SW-CAN,
PK3R0, PK3R1, IM-900
compatible**

Usage: PassKey3 immobilizer replacement, compatible with GM / Chevrolet PK3R0 / PK3R1 and Daewoo IM-900 systems. Not plug and play, must store SYNC and ID (16-byte security key and 2 bytes of "platform immobilizer password").

Installation: install emulator instead of original immobilizer. Pinout: 1: +BAT, 2: +IGN, 3: GND, 4,5: GMLAN (SW CAN). For emulator only 3 wires are necessary: +IGN, GND and GMLAN.

Hardware and jumpers (JMP):

- JMP: open to allow SYNC update (CONFIG mode), if short update is prohibited;
- LED: lights if authorization request received, in CONFIG mode - EEPROM update request received.

Common alignment methods:

- method 1 – using MBcan hardware and HS-SW gateway. SW-CAN speed must be set to 33.3333 kb. Using configurator software store necessary SYNC and ID, choose operation mode (NA and rest of the world). JMP must be open to update data.
- method 2 – using any CAN logger which is capable to work with SW CAN. If logger is designed for HS-CAN only, it is possible to use SW-HS gateway. SW-CAN connection speed: 33.3333 kb, 11-bit ID (short ID), JMP must be open to allow EEPROM updates. Must send 3 frames like below:

      0x7FE 8 00 11 22 33 44 55 66 77
      0x7FE 8 01 88 99 AA BB CC DD EE
      0x7FE 8 02 FF 01 00 00 00 12 34

  SYNC: **112233445566778899AABBCCDDEEFF01** used here, TYPE: **00** for North America, (must use **01** for Default), ID (platform immobilizer password): **1234**. First data byte is frame sequence index.
  Response from emulator must match data sent before, using ID 0x7FF:

      0x7FF 8 00 11 22 33 44 55 66 77
      0x7FF 8 01 88 99 AA BB CC DD EE
      0x7FF 8 02 FF 01 00 00 00 12 34

  If so, everything is OK and data is updated.
  To request actual data (read emulator), must send:

      0x7FE 8 FF 00 00 00 00 00 00 00

  Actually stored data returned.
- Test emulator, if everything is OK, place solder joint (short JMP) to prohibit EEPROM updates.