

Decoder-Test and Connector Boards are now in Final Version (in German: Test-und-Anschluss-Platinen)

MXTAPS and MXTAPV

With all types of decoder interfaces, for testing, software updating and sound project loading

ZIMO Decoder Test and Connector Boards have been shipped since September 2015. As a result of feedback from users, we have now made some improvements and enhancements, and issued **new** versions of **MXTAPS** and **MXTAPV**. Since only a small number (about 100) of the previous boards were delivered, the same product names have been retained. At first glance, the new boards are distinguished by their colour (now black instead of green); the pictures below show the MXTAPV version.



Now (new):



Previously:

However, the extensions also necessitate some additional expenses for manufacturing and therefore the prices had to be raised; and now are:- **MXTAPS RRP €57- MXTAPV RRP €77**

The ZIMO Decoder Test and Connector Boards are simultaneously testing and docking stations for the decoder software update and sound project loading; they are preferably used together with the ZIMO decoder update and sound-loading devices, the MXULFA, but also with other ZIMO devices, such as the MX10, and can be used with older ZIMO digital systems and third-party systems. The basic features of the ZIMO "Test and Connector Boards" are:

- Support the connectors for all currently ZIMO decoders interfaces as of mid-2015), e.g. PluX12, -16, 22, Next18, MTC21, NEM651, NEM652 (all NMRA or VHDM standards), as well as the large scale interface connections of MX696, MX697, MX699 (ZIMO proprietary arrangements), as well as terminals for decoders with wires,
- Two versions: MXTAPS with standard interfaces for small scales, MXTAPV with additional interfaces for ZIMO large scale decoders.
- Connections for MXULF or ZIMO base unit or other digital centres via double terminal block "TRACK" connectors, and optionally (when sound loading should be done via SUSI) with "SUSI" cable.
- To test decoders, on the board, the following are available: DC motor, speaker (1 Watt), various LEDs for function outputs and fan outputs (large scale), servo terminals (large scale), and wire connections to external loads.

The **new (black) version** has the following enhancements:

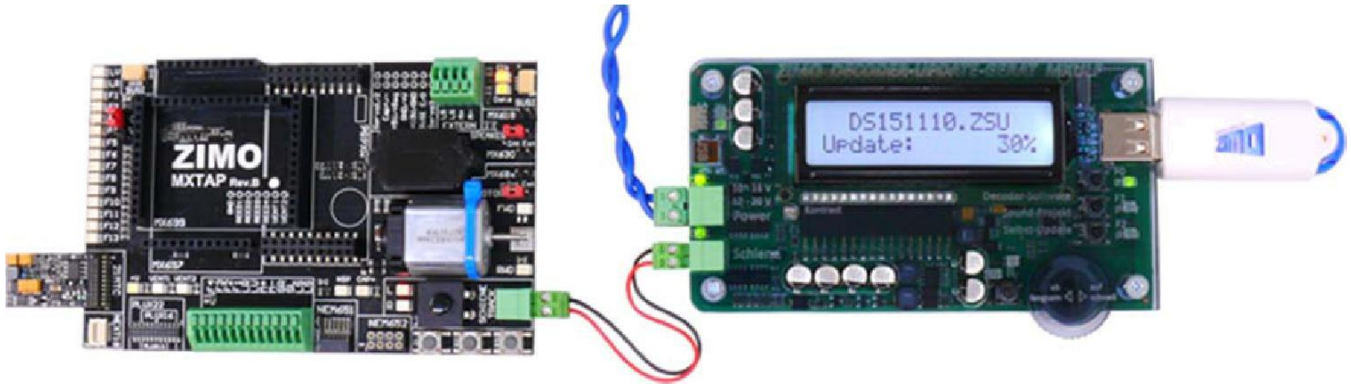
- 12 (instead of 8) terminals for wired decoders,
- ON/OFF switch (to make it easier to plug in the decoder without power)
- 3 keys for testing the inputs of the decoder (for example, to replace the cam sensor, which controls the steam chuffs)
- Shift jumper for "normal" or "logic" function outputs for decoders with the MTC interface (MX634D, -C, MX644D, -C)
- Additional terminals for external motors and speakers: handy if speakers are to be tested,
- various additional control LEDs, for example, for SUSI pins, low-voltage, and energy storage connections.

With MXTAPS or MXTAPV 3rd party products can also be connected and tested especially decoders (from other manufacturers). For software update and sound loading, of course, the respective matching programmer of that manufacturer must be used. When in test mode, ZIMO and 3rd party products can be mixed.

Typical Applications:

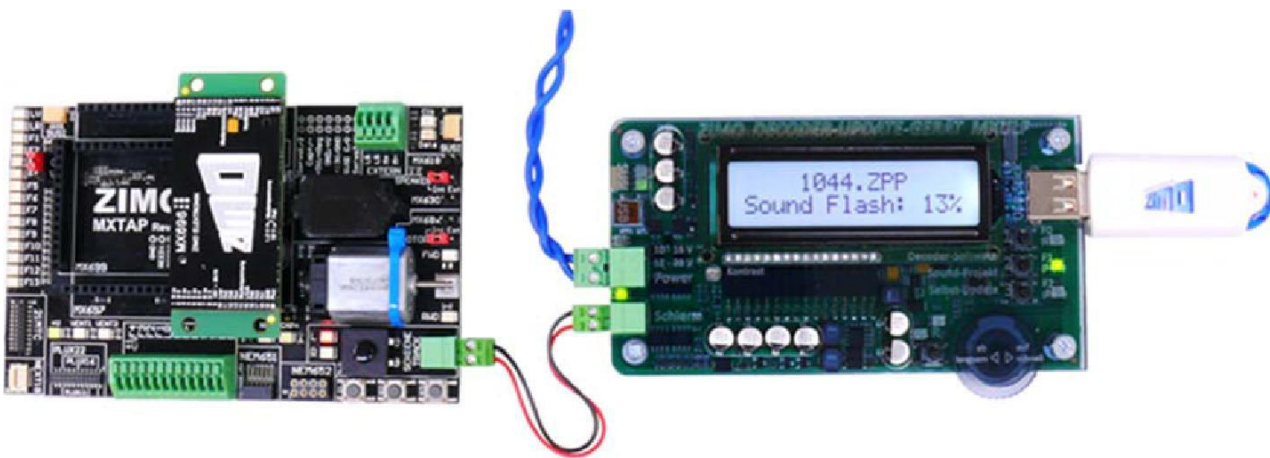
MXTAPV (could also be **MXTAPS**) with decoder MX644D (using MTC interface), connected to **MXULFA**:

Supply of "Power" on MXULFA port, 2-wire socket of "TRACK (SCHIENE)" of (MXULFA) connected to "TRACK" of (MXTAPV), a **decoder update** on MXULFA has just started (as indicated on display), the decoder software comes **from the USB stick**.



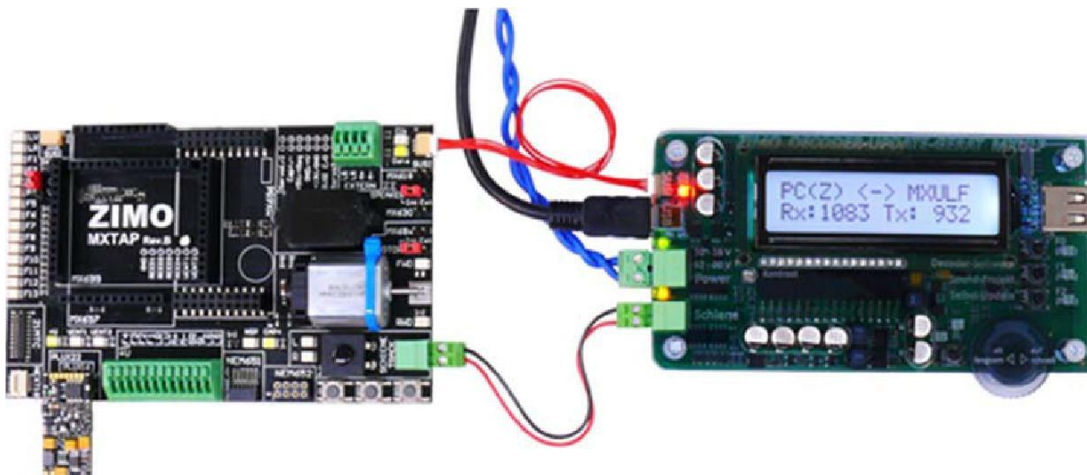
MXTAPV with attached large scale sound decoder MX696, connected with **MXULFA**:

on the MXULFA **sound loading** has just started (as indicated on display) and the sound project comes **from the USB stick**.



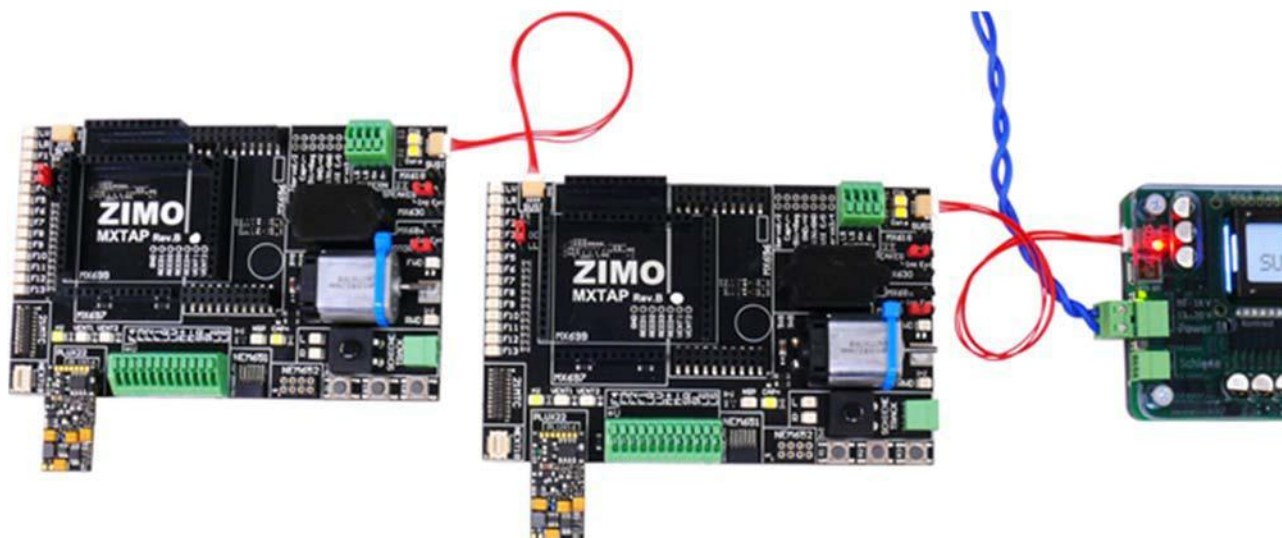
MXTAPV (could also be **MXTAPS**) with decoder MX645P22 (PluX interface), connected to **MXULFA**:

additionally a SUSI cable between MXULFA and MXTAPV to perform **fast sound loading via SUSI** (about **1 minute instead of 20 min**), MXULFA is controlled in this case **from the computer** (usually via the software ZSP - ZIMO Sound Programmer; therefore no USB Stick but a USB cable to the computer instead; the display shows information about communication between PC and MXULFA, but not about the sound project).



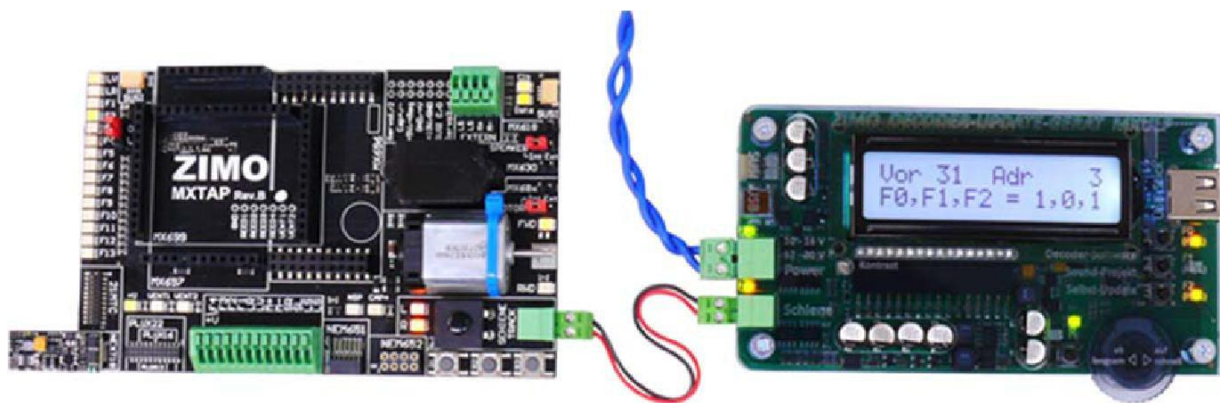
Several MXTAPV (can also be **MXTAPS**), each with a decoder connected, are "chained" together to one **MXULFA**:

Supply the whole combination with "Power" via the MXULFA, connect the SUSI cable (in this case, the power supply is also via the SUSI-cable) to the SUSI connectors of each MXTAP's for **simultaneous sound-loading** via SUSI (about 1 minute) in all connected sound decoders (NOTE: NOT compatible with MX644).



MXTAPV (could also be **MXTAPS**) with decoder MX648N18 (Next interface), connected to **MXULFA**:

Via control LEDs and display of MXULFA, just a test operation can be made, i.e. test motor control, test function outputs, test sounds of sound decoder.



MXTAPV (could also be **MXTAPS**) with decoder MX648R (NEM 652, speaker wires to terminals) connected to **MXULFA**:

In this case, the test operation is controlled by the computer (slider bar on screen in ZSP or ZCS), therefore, visible on the display, is only information about communication between PC and MXULF.

