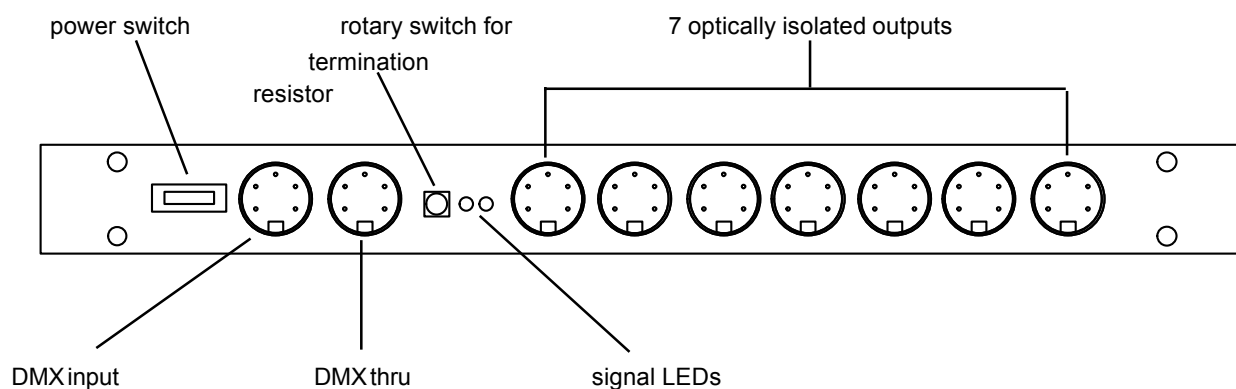


MA Seven Way Booster

MA SEVEN WAY BOOSTER - the safe and easy way to distribute DMX signals. The risk of using only one chain is eliminated and the cable-losses are smaller. MA SEVEN WAY BOOSTER distributes DMX 512 (1990) signals to seven separate outputs. The direct output (DMX THRU) remains functional also in the event of booster failure (e.g. fail of power supply).



FEATURES:

DMX IN:	Overvoltage protected DMX input
DMX THRU:	Directly coupled DMX output, unit independent
OUTPUTS:	Seven each optically isolated amplified outputs All DMX outputs are overvoltage protected
LOAD:	Termination resistor adjustable with rotation switch, if this unit is the last unit in the DMX chain (distributor junction)
SIGNAL IN:	LED shows the received input signal
SIGNAL OK:	LED shows the input of data with correct DMX-format

TECHNICAL DATA:

Mains supply:	230 VAC / 50 Hz or 110 VAC / 60 Hz (factory setting)
Signal input/output	USITT DMX 512 (1990) via 5POL XLR (male)
Pin layout:	Pin 1 = ground Pin 2 = data - Pin 3 = data +
Unit dimensions	19 inch (483mm) / 1U (44,5mm) W x H x D (mm): 435 x 42 x 170
Weight	9,0 lbs (4,0 Kg)

Made in Germany

INSTALLATION INSTRUCTIONS:

Connect the MA SEVEN WAY BOOSTER to your DMX equipment.

>**NOTE:** The LOAD (rotary) switch is usually set to position "0" or "1".
Select the appropriate termination resistor, if the connected unit is the last DMX receiver.

LOAD	0	1	2	3	4	5	6	7	8	9
OHM	5k	1k	500	300	220	180	150	120	100	90

(Back panel)

Connect unit to your DMX source (e.g. lighting consoles)

LEDs "Signal In" and "Signal Out" should now be lit.

< **NOTE:** The brightness of LED "Signal In" depends of the DMX signal.

-- THE UNIT IS NOW READY FOR USE --

ERROR HANDLING:

Check fuse if the booster fails to function.

Under normal operating conditions, the "SIGNAL OK" and "SIGNAL IN" LEDs are on.

ERRORS may be caused by:

- Contact problems with cables and connectors
- Short circuit and/or wrong pinlayout
- Lack of shield, lacking data line
- Lack of termination resistor
- Inappropriate cable or extreme cable length

>**NOTE:** In case of unit failure, "DMX THRU" will still operate!

Safety Instructions:

1. Read all the instructions in the user manual.
2. Keep the user manual for later use.
3. Follow all the instructions on the unit.
4. Pull the plug before cleaning the unit; do not use any liquid or spray cleanser. Clean with a damp cloth.
5. Do not use the unit near water.
6. Do not put the unit on unstable tables etc.. It might fall down and get damaged.
7. There are slots in the case for ventilation; do not cover these slots up because they guarantee the reliable use of the unit and protect it against overheating. Do not install the unit into a frame unless sufficient ventilation is guaranteed.
8. The unit is provided with a safety plug. This plug can only be used with safety sockets. These safety measures should by all means be followed. In case the plug does not fit into the socket (e.g. with old sockets), the socket should be replaced by an electrician.
9. Do not put any objects on the wire and make sure nobody steps on it.
10. In case you use an extension wire make sure the sum of the power consumption of the connected units does not exceed the maximum power of the wire. The sum of the units plugged in the socket should not exceed 10 Ampere.
11. Do not spill any liquid over the unit. Do not put any objects through the slots of the unit, as these might get in contact with parts that are live or might cause short circuits. This may cause fires and shocks.
12. Do not service the unit yourself as parts that are live might be exposed when you open the case; you run the risk of getting shocked. All services should only be carried out by a specialist.
13. If one of the following conditions occurs, please pull the plug out and call the service:
 - A. Wire or plug is damaged or worn.
 - B. Liquid got into the unit.
 - C. The unit was exposed to rain or got damp.
 - D. The unit does not work properly even if you follow the instructions of the user manual.
 - E. The unit fell down and the case was damaged.
14. Only use wires which are marked safety proof.
15. Do not use any high-power walkie-talkies near the unit.

DECLARATION OF CONFORMITY according to guide lines 89/336 EWG and 92/31 EWG:

Name of producer: MA Lighting Technology GmbH
 Address of producer: Dachdeckerstr. 16 D-97297 Waldbüttelbrunn
declares that the product
 Name of product: MA Seven Way Booster
 Type: MA Booster
answers the following product specifications:
 Safety: EN60065, VDE0860, IEC65
 EMV (EMC): EN55103-1 (E1), EN50081-1
 EN55103-2 (E2), EN50082-1

Additional information: All DMX512 inputs and outputs must be shielded and the shielding must be connected to the ground of the corresponding plug.

Waldbüttelbrunn, 17.01.1995



Dipl. Ing. Michael Adenau