

MX-8

Multi Norm /
i / c / hp / df /
uk Multi Norm



Bedienungsanleitung

Operating Instruction

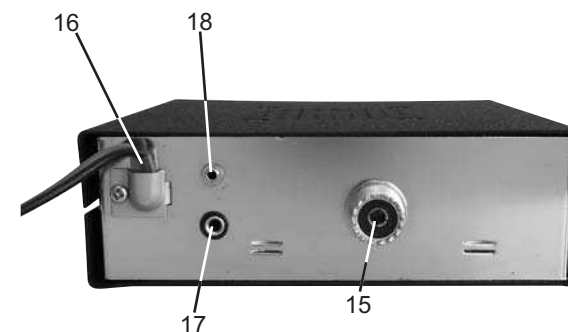
Manual de Instrucción

Manuale d'istruzioni

Mode d'emploi

Handleiding

TEAM
electronic



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- 1 Mikrofon mit Spiralkabel + 6-Pol Stecker
- 2 Kanalwahltaste Aufwärts [▲]
- 3 Kanalwahltaste Abwärts [▼]
- 4 Sendetaste [PTT]
- 5 Rufsignalaste [SIGNAL]
- 6 LCD-Anzeige
- 7 Modulation [Mode]
- 8 Kanalsuchlauf oder Tastatur-sperre [SC / KL]
- 9 Kanalwahlwahltaste [Channel]
- 10 Rauschsperreregler und auto. Rauschsperrung [SQ/Asq]
- 11 Lautstärkereger / Ausschalte [Vol / Off]
- 12 Mikrofonanschlussbuchse 6polig, GDCH-Norm
- 13 Zweikanalüberwachung oder Hintergrundbeleuchtung [DW / B]
- 14 Vorrangkanaltaste für Kanal 9 / 19 [CH9 / 19]
- 15 Antennenanschlussbuchse SO239
- 16 Stromversorgungskabel
- 17 Anschlussbuchse für externen Lautsprecher 3,5 mm
- 18 Anschlussbuchse für externen S-Meter 2,5 mm

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- 1 Microphone with curled cable and 6 pin plug
- 2 Channel selector key Up [▲]
- 3 Channel selector key Down [▼]
- 4 Push to talk key [PTT]
- 5 Call tone key [SIGNAL]
- 6 LC display
- 7 Modulation toggle switch [Mode]
- 8 Channel scanning or Key Lock [SC / KL]
- 9 Rotary channel selector switch [Channel]
- 10 Squelch control and automatic squelch [SQ / Asq]
- 11 Volume control, On/Off switch [Vol / Off]
- 12 Microphone socket 6 pin 8 GDCH standard)
- 13 Dual Watch or LCD background illumination selector key [DW / B]
- 14 Channel 9 / 19 priority key [CH9 / 19]
- 15 Aerial connector SO239
- 16 DC power cable
- 17 Jack socket (3.5 mm) for external speaker
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- 14 Botón de prioridad canal 9 / 19 [CH9 / 19]
- 15 Conector de antena aéreo SO239
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- 8 Toets voor scannen van de kanalen of toetsen blokkering [SC / KL]
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- 12 Microfoon aansluiting 6 pin (GDCH standaard)
- 13 Dual Watch of keuze toets voor LCD achtergrond verlichting [DW / B]
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Setting up the TEAM MX-8

1) Installation of a CB antenna

The antenna is one of the most important parts of the equipment. The type of antenna and its location has a great effect on the range of operation. Please consider the following criteria for selecting the best location and installation of your antenna:

- > Make sure that the antenna is designed for radio operation on 27 MHz.
- > The location of the antenna should be as high as possible without any obstacles nearby.
- > The aerial cable should not be damaged and the plugs should be properly connected.
- > Make sure that the antenna cable is not bent too much.
- > The bigger the mechanical size of the antenna, the higher the range of operation.

When you install a mobile antenna please note the following advices:

- > The antenna should be fixed in the centre of a bigger part of the coachwork.
- > The mobile antenna coil should have the closest possible contact with a conducting metallic surface of the bodywork of the car.

There are also some other possibilities to fix the antenna onto the car without the necessity to drill a hole into the bodywork of your car, for example mounting the antenna onto the gutter, mounting the antenna onto a holder on the cover of the boot or using an antenna with a magnetic foot or using a windscreen antenna.

For base-station operation we recommend a stationary antenna on the roof, for example the TEAM ECO 050 or ECO 200.

- > Please don't mount the CB antenna nearby a radio or TV antenna to prevent interference of radio or TV reception.
- > Keep an eye on power lines running along nearby when mounting the antenna on the roof.
" DANGER "
- > The base-station antenna has to be connected via a lightning arrester.
- > All connected cables including the antenna cable must not exceed a length of 3 m.

2) Aerial Connection

Before pressing the transmit key, a suitable aerial must be connected. The PL259 plug of the aerial cable (coax) is connected to the SO239 socket (15) on the rear panel. Make sure, that all plugs are firmly tightened and properly soldered. Unsatisfactory connections can damage the radio and will reduce the range of operation.

The antenna should be matched with the radio, otherwise a part of the transmit power will be reflected at the antenna and will not be radiated. This causes also a drop in the range of operation. The matching can be carried out by a length adjustment of the antenna radial for a minimal SWR ratio which can be measured by a SWR meter (e. g. TEAM SWR 1180P). After the measurement the SWR meter should be removed from the antenna line.

3) Installation in the car

When you want to fix the unit in your car, you can either fasten it with the help of the included mounting bracket below the dashboard, or insert it into a car radio slot by using the included inserting frame. Always mount the transceiver where the switches are easily accessible. Other important points of view for the correct mounting position are:

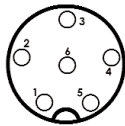
- > no interference of the roadworthiness,
- > good access of the controls of the car,
- > sufficient air circulation to prevent overheating of the radio in transmit mode.

Please take into account that the LC display (6) is only good readable from a certain angle. An intensive solar irradiation can also affect the readability of the display. So it is recommended to check the best position before the final installation. The unit can easily be fixed onto different positions in the car by using the enclosed mounting bracket.

4) Microphone DM-106S

Plug the microphone (1) into the 6 pin socket (12) on the front panel. Note it will only go in one way round. No transmission and receiving is possible without the microphone. The pin assignment of the GDCH standard microphone plug is given below:

- PIN 1 Modulation
- PIN 2 Loudspeaker
- PIN 3 PTT
- PIN 4 Up/Down
- PIN 5 Ground
- PIN 6 +12 Volt



Solder side view of the microphone connector or top view of the microphone plug.

The standard microphone DM-106S, which is equipped with channel selection and signal tone, is included with the MX-8. This microphone is the best selection for the MX-8.

5) Power source

Before connecting the unit to a suitable power source via the fused DC power cable (16), the device must be switched off by turning the volume control (11) [**Vol / Off**] anticlockwise as far as the stop and hearing a switching sound.

Then, connect the two naked leads at the end of the cable with the supply voltage of the car/lorry battery. The unit is designed to operate with 12 volts or 24 volts and a negative ground electrical system. Lay the cable as far as possible away from aggregates which can cause interference. Watch for the correct polarity during the connection.

- BLACK connect to - MINUS / ground of the car battery.
- RED connect to 12/24 volts + PLUS of the car/lorry battery.

If the power source is not disconnected after putting the engine off, the last settings will remain stored, after the unit and the car are switched off.

For base-station operation use a suitable power supply (13.2 V / 2.5 A, e. g. TEAM LabNT series). The power supply should be designed for operation with a transceiver, otherwise interference from the mains or over-voltage may occur.

After proper connection of the microphone, the aerial and power source, radio operation can be started.

Operation of the TEAM MX-8

1) Switching on [Vol / Off]

Before switching the unit set the squelch control (10) [**SQ / Asq**] to the counterclockwise stop but without activating the internal switch. The device is switched on by turning the volume control (11) [**Vol / Off**] clockwise to the centre position. The symbols are shown at the LC display (6) and the LCD backlight is illuminated. When being switched on after a disruption of the supply source the unit works on channel number 9 in FM mode and the LCD back-light is illuminated in orange or blue. Adjust the receiver sound with the volume control to the desired level. All settings, which are made during operation of the transceiver, remain memorized after the unit is switched off, as long as the power supply is not disrupted.

2) Scrolling Text

The scrolling text in the display informs about the selected norm - operation mode (AM / FM), number of channels, frequency ranges and tx powers - and the currency (12 / 24 V) that is present.

These information are displayed for appr. 50 sec. when the radio gets turned on and are repeated every minute. In transmission and reception mode, the scrolling text is aborted and starts again after one minute after the signal ends.

There is no scrolling text available when the squelch is open, see point 3) Squelch [**SQ / Asq**].

3) Squelch [**SQ / Asq**]

The strong background noise, which occurs always on free channels, can be suppressed by the squelch function. By turning the squelch control (10) [**SQ / Asq**] slowly clockwise you will find a point where the noise disappears. The squelch control should only be turned up far enough to stop the background noise on an unused channel. Turning the control further clockwise will increasingly suppress stronger interfering signals as well as weak stations.

The automatic squelch [**Asq**] can be activated by turning the squelch control counterclockwise until the control clicks. In this position the normal squelch function is switched off and the squelch threshold is set to default.

4) Channel selection [▲] [▼]

All channels can be selected by pushing the channel selector keys (2) [▲] and (3) [▼] at the microphone, or by turning the rotary channel selector (9) [**Channel**] on the front panel to the desired channel. The channel will be displayed on the LCD (6) with big digits and the frequency with small digits. No channel selection is possible while the radio is in TX mode. The channels step in a ring like system. That means you go from the highest channel number to channel 1 and vice versa. For communication with a partner CB station, both transceivers must be adjusted to the same channel and the same modulation type.

5) Receipt Tone selection Hi / Lo [Mode]

The receipt tone selection is only available in the radio version MX-8 c and the norm 4000. To toggle between the receipt tone high and low, press the receipt tone key (7) [**Mode**]. When being switched on after a disruption of the supply source the receiving sound is set to mellow, which is indicated in the LCD by the symbol "LO". By pushing the receipt tone key (7) [**Mode**] the receiving tone is changing to a bright sound in the loudspeaker. This is indicated in the LCD window by the symbol "HI".

6) LCD background illumination [DW / B]

By long-pressing the LCD illumination toggle key (13) [**DW / B**], the LCD back-light color is switches between orange and blue.

7) Modulation selection [Mode]

The MX-8 can operate in AM or in FM modulation. However, some versions, e.g. MX-8 c operate in FM only.

If the unit accepts also the modulation type AM on the actual channel, you can toggle it by pressing the key (7) [**Mode**] between the modulation types AM and FM. The selected AM mode will be indicated by the symbol "AM". If the unit does not accept the modulation type AM on the actual channel, you will only hear a receipt tone, but it remains on the modulation type FM.

If the unit is set to AM on the actual channel, and you select another channel, on which the AM mode is inhibited, the modulation changes automatically to FM mode. If you select once more another channel, on which the AM mode is allowed again, the modulation switches automatically to back to AM mode.

With the model type "MX-8 uk Multi Norm", you can toggle between the EU band and the UK band, which is indicated by symbol "EU" or "UK", by pressing the key (7) [**Mode**] If the actual model type of the MX-8 is the "MX-8-uk", you can only work in FM mode. By pressing the key (7) [**Mode**] you can toggle the unit between the EU band and the UK band, which is indicated the symbol "EU" or "UK". When being switched on after a disruption of the supply source the unit works on channel number 9 in the UK band. The CB band EU consists of the 40 CEPT channels. The CB band UK consists of 40 channels starting from 27.60125 MHz to 27.99125 MHz. It is permitted only in Great Britain. After switching it off, the unit stores the last channel of the actual band and also of that band, which is actually not in use, as long as the power source remains connected.

8) Version Selection

The MX-8 type distributed in Great Britain is called "MX-8-uk Multi Norm". The three different versions "8000uk", "4040" and "8040" can be switched by the end-user.

To enter the version selection mode keep pressing the Priority Channel 9/19 key (14) [**CH9/19**] while turning the radio on. Release the key (14) when one of the three digits 1, 2 or 4 will start blinking in the display. No other symbols will be present in the display. The digits represent the different versions (4: 8000uk, 1: 8040 and 2: 4040. When you see a digit blinking in the display you can select a version by pressing shortly the Channel 9/19 key (14) [**CH9/19**] until the desired digit appears in the display. Every pressure increases the number for one step. To confirm the selection, hold the Channel 9/19 key (14) [**CH9/19**]. The unit will change to the selected version and all symbols will reappear in the display.

- > In the position "8000uk" the unit works on the two frequency bands EU and UK with modulation type FM only. The transmit power is 4 W. The version "8000uk" is allowed for use in Great Britain only. In other countries the version "8000uk" is not allowed.
- > In the position "4040" the unit works only on the 40 CEPT channels, but it allows on every channel both modulation types, FM and AM. The transmit power in FM is 4 W and in AM 1 W. In the following countries the unit is allowed to be used on every channel in both modulation types FM and AM: Belgium, France, Italy, Netherlands, Portugal and Spain.
- > In the position "8040" the unit works on all 80 German CB channels in FM mode, and 40

channels AM mode. The transmit power in FM is 4 W and in AM 1 W. The version "8040" is allowed for use in Germany only.

Refer to the unit's passport of the "MX-8-uk Multi Norm" for information about the permissions and restrictions for the use of the different versions in the different countries.

9) Transmitting

To transmit, depress and hold the key (4) [**PTT**] on the microphone (1). On the LCD, the symbol "TX" appears, and the bar meter at the bottom of the display shows the relative transmit signal strength. For best quality, speak normally at a distance of 2 - 4 inches. Speaking too loudly will cause distortions and make the signal difficult to understand. While the set is in the transmit mode there is no key entry possible and the receiver is muted. On completion of the transmission release the PTT key (4) and the set will revert to receiving mode.

10) Call tone

If you press the transmit key (4) [**PTT**] and the call key (5) [**SIGNAL**] on the microphone (1) at the same time, a call tone will be transmitted and can be heard only by the partner station, provided it is switched on the same channel and the same modulation type.

11) Priority Channel 9 / 19 [CH9/19]

The MX-8 contains the priority channels 9 and 19. Priority channel 9 is selected by pressing the key (14) [**CH9/19**] once. To set priority channel 19, press the key (14) [**CH9/19**] twice. When a priority channel is set, the channel and the frequency will blink in the display and all function keys including the rotary channel selector are disabled. Only transmission and activation of the VOX function are possible. To return to the previous channel, press the key (14) [**CH9/19**] once, if priority channel 9 has been selected, or twice, if priority channel 19 has been set. Once returned to regular mode, all functions will be enabled again.

12) Channel scanning [SC / KL]

If this function is active, the unit looks for occupied channels. As this function does not work with open squelch, set the squelch control (8) [**SQ / Asq**] according to paragraph "2" before activating the scan function.

Press the scan key (8) [**Scan**] briefly to start the channel scan. Now the channels are stepping upwards and the scan symbol "SC" appears on the LCD screen. The scan function stops on the next channel on which a signal opens the squelch. It is terminated at this moment, which is indicated by the extinction of the scan symbol "SC".

To stop scanning, press the scan key (8) [**Scan**] once again. Scanning also be stopped by pressing the channel selector (2, 3) or PTT (4) key, or by turning the rotary channel selector (9). Then, the scan symbol "SC" will disappear from the display, and the actual channel will be that one, on which the channel number was just standing at the moment of deactivation of the scan function.

13) Dual watch function [DW / B]

This function allows you to monitor two channels concurrently. Before activating this function make sure that the squelch is closed on free channels.


First select the first survey channel by means of the rotary channel switch (9) or the Up/Down keys (2) [▼] and (3) [▲].

Then, press briefly the key (13) [**DW / B**]. The dual watch symbol "**DW**" flashes in the LCD window.


Now, set the second channel to be monitored and press the dual watch key (13) [**DW / B**] again. The dual watch symbol **DW** will light constantly, which means that the dual watch function is finally activated now.

Make sure that the second pressure on the dual watch key occurs within 23 seconds after the first one, otherwise the DW function will be aborted, which will be indicated by the extinction of the flashing dual watch symbol "**DW**" in the display.

14) Key lock function [**SC / KL**]

To activate the key lock function, press the key lock key (8) [**SC / KL**] and hold it until the key lock symbol  appears in the display.

All keys and selectors are blocked and only transmission is possible.

To deactivate the key lock function press the key lock key (8) [**SC / KL**] until the symbol  disappears in the display.

Now the keys are released again.

15) External speaker jack

The MX-8 is equipped with a 3.5 mm jack socket (17) at the rear panel to connect an external speaker of 4 - 8 ohm impedance. At 4 ohms the speaker load can be 4 watts (e.g. TEAM TS-500). When the external speaker is connected, the internal speaker will be switched off.

16) Signal meter internal/external

The bar meter in the LCD window shows in reception mode the signal strength of a received signal (S value), and in transmit mode the signal strength of the transmit signal. There is also a 2.5 mm jack socket (18) at the rear panel of the MX-8 to connect an external S-meter with a 2.5 mm plug (e. g. TEAM SM 930). It can show the S values more exactly. Please note that the external S-meter shows only the relative field strength of the incoming signal.

Additional information

1) Safety instruction

Drivers must keep attention about traffic rules by using the transceiver in a vehicle. Drivers should use an assembly for handsfree radio operation while driving, for example the VOX function or a handsfree microphone set like TEAM DM-106VOX.

The unit radiates RF energy in transmit mode. Please keep an eye on safety distance to the antenna.

2) General precautions

Protect the set from humidity and dust. Do not store at places where the temperature may rise and cause damage, for example in the sun. The set can be cleaned by wiping with a soft cloth. Do not use chemical products to clean the set.

3) Servicing

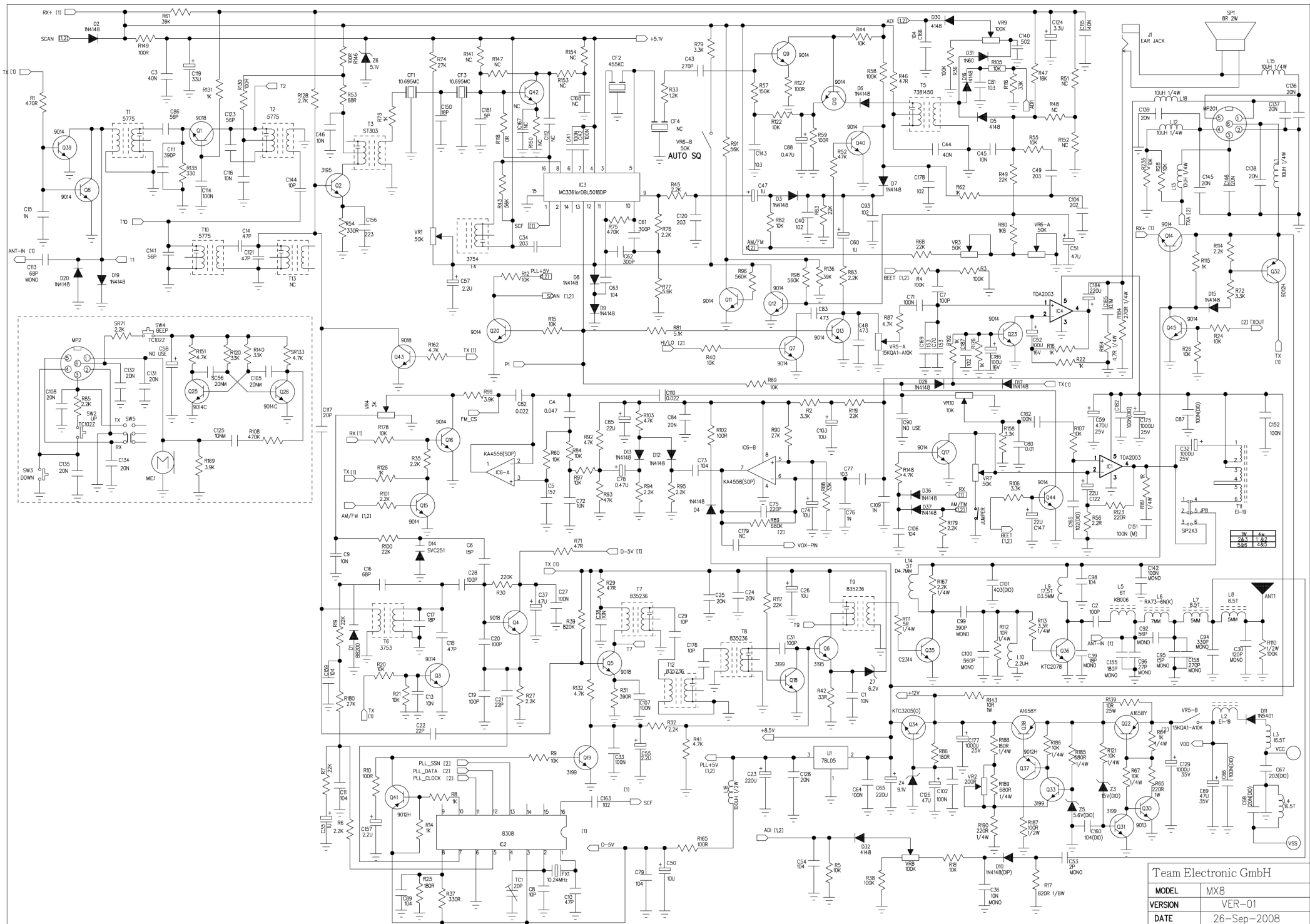
The device must not be opened. Independent repairs or adjustment must not be carried out, since each modification or unauthorised intervention will result in the cancelling of the operating permit and of the warranty and repair claims. Do not use the set if it seems not to function correctly. Disconnect the set in this case from the DC power source immediately. If there is a defect, the authorised TEAM specialist dealer or TEAM must be contacted in every case.

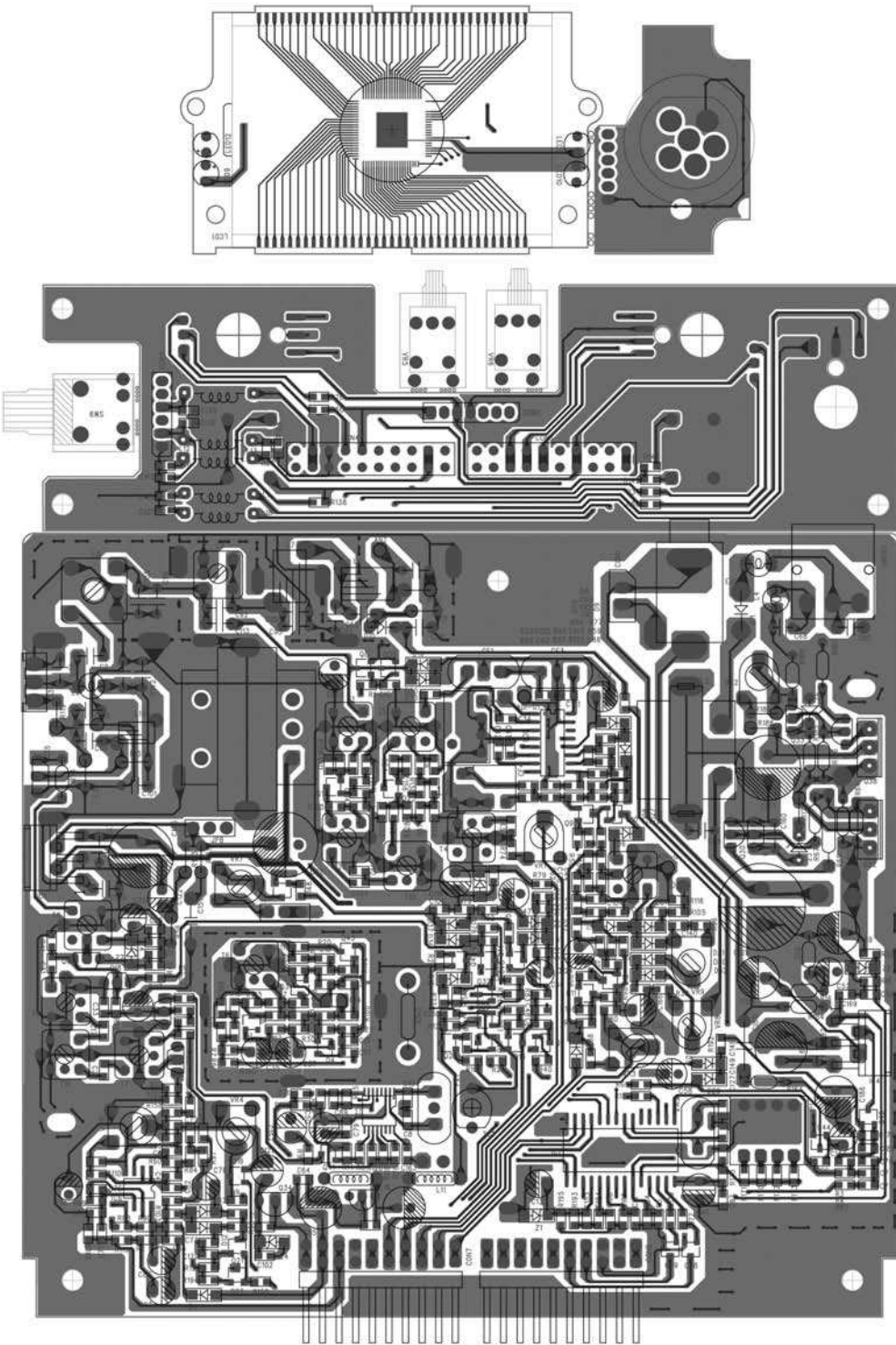
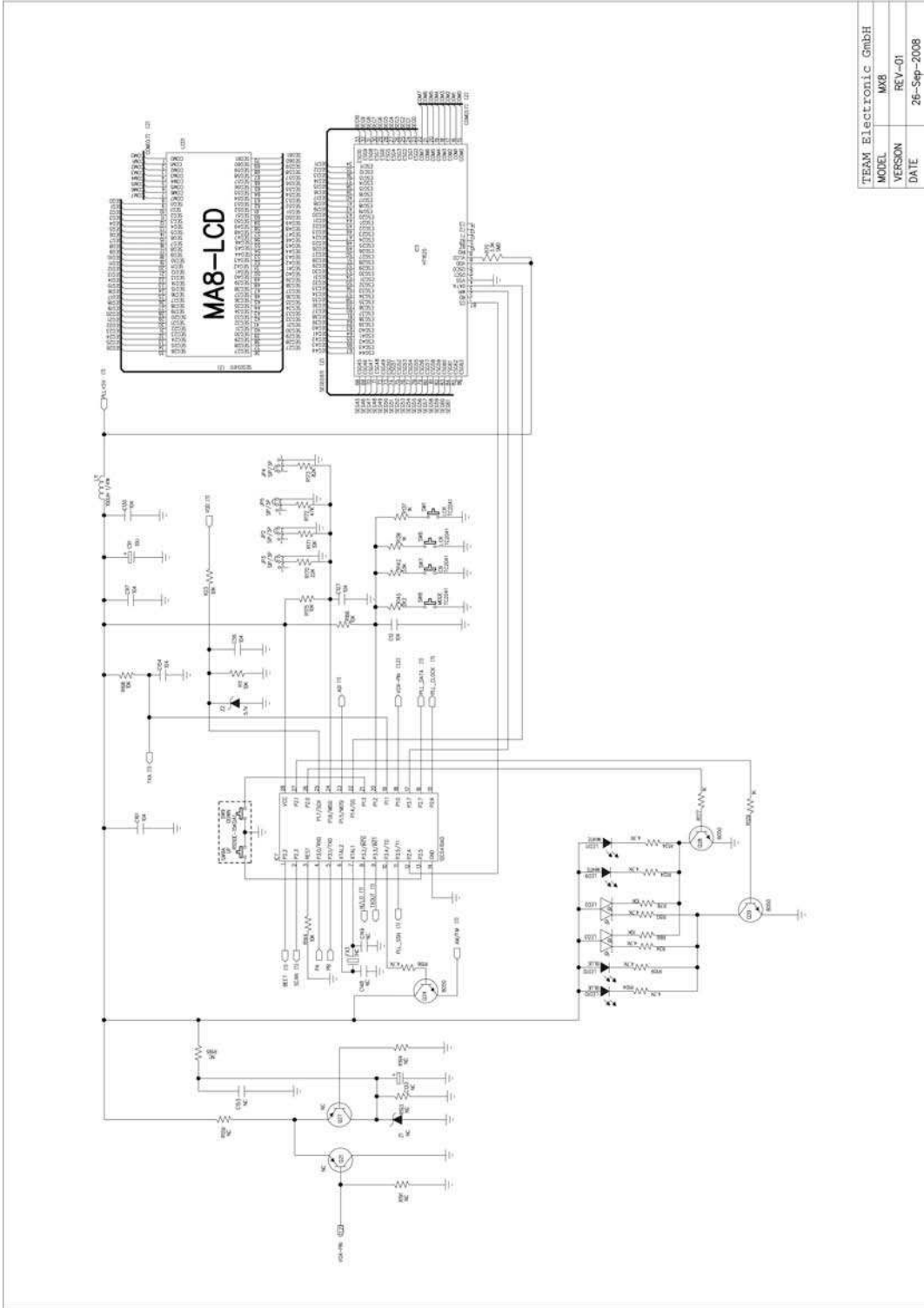
4) Conformity

The CB mobile transceiver TEAM MX-8 complies to the European directive R&TTE and meets the European standards EN 300 135-2, EN 300 433-2, EN 301 489-1/-13 and EN 60950-1.

The specific regulations of the different versions in the different european countries can be found in the radio passport that is included in this manual.

Specifications are subject to change without any prior notice or obligation on the part of the manufacturer.





TEAM MX-8

Kanal - Frequenz (MHz) / Channel - Frequency (MHz) / Canaux - Fréquence (MHz) /
Canal - Frecuencia (MHz) / Kanaal - Frequentie (MHz)

CEPT	D	UK	PL	df
01 - 26.965	41 - 26.565	01 - 26.60125	01 - 26.960	1A - 26.83
02 - 26.975	42 - 26.575	02 - 26.61125	02 - 26.970	2A - 26.87
03 - 26.985	43 - 26.585	03 - 26.62125	03 - 26.980	3A - 26.93
04 - 27.005	44 - 26.595	04 - 27.63125	04 - 27.000	
05 - 27.015	45 - 26.605	05 - 27.64125	05 - 27.010	
06 - 27.025	46 - 26.615	06 - 27.65125	06 - 27.020	
07 - 27.035	47 - 26.625	07 - 27.66125	07 - 27.030	
08 - 27.055	48 - 26.635	08 - 27.67125	08 - 27.050	
09 - 27.065	49 - 26.645	09 - 27.68125	09 - 27.060	
10 - 27.075	50 - 26.655	10 - 27.69125	10 - 27.070	
11 - 27.085	51 - 26.665	11 - 27.70125	11 - 27.080	
12 - 27.105	52 - 26.675	12 - 27.71125	12 - 27.100	
13 - 27.115	53 - 26.685	13 - 27.72125	13 - 27.110	
14 - 27.125	54 - 26.695	14 - 27.73125	14 - 27.120	
15 - 27.135	55 - 26.705	15 - 27.74125	15 - 27.130	
16 - 27.155	56 - 26.715	16 - 27.75125	16 - 27.150	
17 - 27.165	57 - 26.725	17 - 27.76125	17 - 27.160	
18 - 27.175	58 - 26.735	18 - 27.77125	18 - 27.170	
19 - 27.185	59 - 26.745	19 - 27.78125	19 - 27.180	
20 - 27.205	60 - 26.755	20 - 27.79125	20 - 27.200	
21 - 27.215	61 - 26.765	21 - 27.80125	21 - 27.210	
22 - 27.225	62 - 26.775	22 - 27.81125	22 - 27.220	
23 - 26.255	63 - 26.785	23 - 26.82125	23 - 26.250	
24 - 27.235	64 - 26.795	24 - 27.83125	24 - 27.230	
25 - 27.245	65 - 26.805	25 - 27.84125	25 - 27.240	
26 - 27.265	66 - 26.815	26 - 27.85125	26 - 27.260	
27 - 27.275	67 - 26.825	27 - 27.86125	27 - 27.270	
28 - 27.285	68 - 26.835	28 - 27.87125	28 - 27.280	
29 - 27.295	69 - 26.845	29 - 27.88125	29 - 27.290	
30 - 27.305	70 - 26.855	30 - 27.89125	30 - 27.300	
31 - 27.315	71 - 26.865	31 - 27.90125	31 - 27.310	
32 - 27.325	72 - 26.875	32 - 27.91125	32 - 27.320	
33 - 27.335	73 - 26.885	33 - 27.92125	33 - 27.330	
34 - 27.345	74 - 26.895	34 - 27.93125	34 - 27.340	
35 - 27.355	75 - 26.905	35 - 27.94125	35 - 27.350	
36 - 27.365	76 - 26.915	36 - 27.95125	36 - 27.360	
37 - 27.375	77 - 26.925	37 - 27.96125	37 - 27.370	
38 - 27.385	78 - 26.935	38 - 27.97125	38 - 27.380	
39 - 27.395	79 - 26.945	39 - 27.98125	39 - 27.390	
40 - 27.405	80 - 26.955	40 - 27.99125	40 - 27.400	

Technische Daten / Technical data / Caractéristiques / Características técnicas / Technische gegevens

Empfängerempfindlichkeit / Receiver Sensitivity / Sensibilité du récepteur / Sensibilidad Receptor / Ontvangergevoeligheid	FM : 1.6µV / 1.2 KHz; 20 dB (S+N+D)/N AM : 2.4µV / 60%; 20 dB (S+N+D)/N
Zwischenfrequenzen / Intermediate frequencies / Fréquences Intermedia / Frecuencia intermedia / Middenfrequenties	1. ZF/IF 10.695 MHz 2. ZF/IF 455 KHz
Squelch Empfindlichkeit / Squelch Sensitivity / Sensibilité du Squelch / Sensibilidad Squelch / Squelch gevoeligheid	1.0 µV - 2.0 mV
NF-Ausgangsleistung / Audio Output Power / Puissance de sortie audio / Potencia Salida Audio / LF-uitgangsvermogen	1.9 W / 8 Ohm (10% THD)
Sendeleistung / TX output power / Puissance d'emission / Potencia de Salida / Zendvermogen	FM max. 4 W / 50 Ohm AM max. 1 W / 50 Ohm hp: AM max. 4 W / 50 Ohm
Hub / Deviation / Déviation / Desviación / Balayage de fréquence / Frequentieverschuiving	max. 2 KHz / FM
Modulationsgrad / Modulation Degree Degré de modulation / Grado de modulación / Modulatiegraad	85 % max. AM
Frequenztoleranz / Frequency tolerance / Tolérance de fréquence / tolerancia de frecuencia / Frequentietolerantie	max. ± 600 Hz
Ober-/Nebenwellenunterdrückung / Harmonic / spurious suppression / Réjection des (non) harmoniques / Supresión de los armónicos / Onderdrukking van storingen	≤4 x 10 ⁻⁹ W ≤2.5 x 10 ⁻⁹ W
Stromaufnahme / Current consumption / Consommation / Intensidad absorbida / Stroomverbruik	FM: 1100 mA / TX AM: 600 mA / TX, 150 mA / RX hp: AM: 1800 mA / TX
Betriebsspannung / Power Supply Voltage / Alimentation / Alimentación / Voedingsspanning	max. 12 V / 24 V nom.
Abmessungen / dimensions / dimensions / Dimensión / Afmetingen	145 mm x 45 mm x 153 mm
Gewicht / weight / Poids / Peso / Gewicht	1005 gr.

TEAM MX-8

for sale and use in:

TEAM MC-8 Multi Norm for sale and use in :
• CZ (FM only) • DE • LT • PL

TEAM MC-8i for sale and use in :
• BE • CH • DE • ES • FI • FR • IT • NL • NO • PT • SE

TEAM MC-8c for sale and use in :
• AT • BE • CH • DE • DK • ES • FR • GB • IT • NO • PT • SE

TEAM MC-8UK for sale and use in :
• GB

TEAM Electronic GmbH

Bolongarostrasse 88
D-65929 Frankfurt am Main
GERMANY
Tel. ++49 - 69 - 300 9 500
Fax ++49 - 69 - 314382
eMail team-electronic@t-online.de
Web Page www.team-electronic.de

