TS-6M

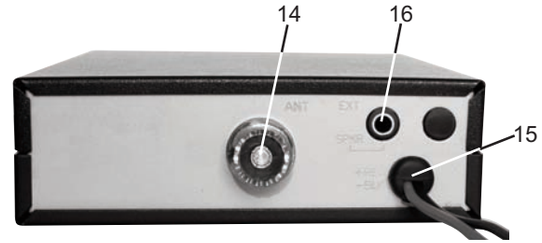
CB-Mobilfunkgerät
CB Mobile Radio
Transmisor móvil CB
Cb émetteur récepteur
Ricetrasmettitori
CB mobile zender

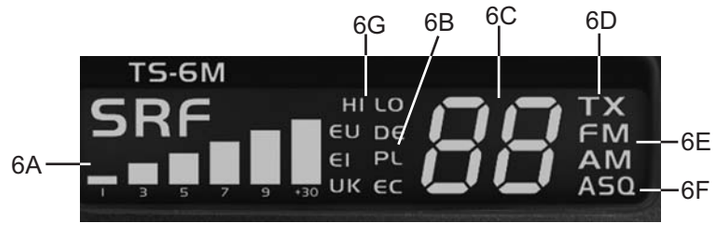
- **Full Multi Norm**
  DE, PL, EC, EU, EI, UK
- **EC CEPT**
- **EU AM/FM**

12 Volt

Bedienungsanleitung
Operating Instruction
Manual de Instrucción
Manuale d'istruzioni
Mode d'emploi
Handleiding

TEAM electronic





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3 Kanalwahltaste Abwärts **[DN]**
4 Sendetaste **[PTT]**
5 Rufsignaltaste **[BP]**
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6C Kanalanzeige
6D TX-Sendeanzeige
6E Betriebsart AM/FM
6F ASQ-Anzeige
6G Empfangston Hi/Lo (CEPT Version)
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8 Kanaldrehwahlschalter **[Channel]**
9 Rauschsperreregler und auto. Rauschsperre **[SQ/ASQ]**
10 Lautstärkeregler / Ausschalter **[Off / Vol]**
11 Regler für Empfängerempfindlichkeit [**RFG**]
12 Mikrofonanschlussbuchse 6polig,GDCH-Norm
13 Vorrangkanaltaste für Kanal 9 / 19 **[CH9 / 19]**
14 Antennenanschlussbuchse SO239
15 Stromversorgungskabel
16 Anschlussbuchse für externen Lautsprecher 3,5 mm

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6C channel no.
6D TX-mode
6E operation mode AM/FM
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6D modo TX
6E modo de modulación AM/FM
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7 Selección de modulación **[Mode]**
8 Interruptor selector rotativo de canal **[Channel]**
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10 Control de volumen, Encendido/Apagado **[Off / Vol]**
11 Control de sensibilidad de la recepción [**RFG**]
12 Conector de micrófono 6 pin (GDCH estándar)
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14 Conector de antena aéreo SO239
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6E choix de la modulation AM/FM
6F ASQ - squelch automatique
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12 Prise du microphone 6 broches (standard GDCH)
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6 LCD display
6A S-Meter
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..8 Draai schakelaar voor de kanalen [**Channel**]
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11 Gevoeligheidscontrole van de ontvangst [**RFG**]
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Setting up the TEAM TS-6M

1) Installation of a CB antenna

The antenna is one of the most critical parts in the setup. The type of antenna and its location has a great effect on the range of operation. Please consider the following criteria for selection of 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.
> 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 center of a big body-part, e.g. the trunk.
> 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, e.g. 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.

> 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 "
> 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 (14) on the rear panel. Make sure, that all plugs are firmly tightened and properly soldered. Insufficient 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 reduces the range of operation. The matching of antenna to radio, is performed by a length adjustment of the antenna radial in aim 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. Always mount the transceiver where the switches are easily accessible. Other important points to consider for a correct mounting position are:

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

Please consider the perspective onto the display while driving. Starting from a certain angle of view, the readability of the display diminishes. 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-906T

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-906T, which is equipped with channel selection and signal tone, is included with the TS-6M. This microphone is the best selection for the TS-6M.

5) Power source

Before connecting the unit to a suitable power source via the fused DC power cable (15), the device must be switched off by turning the volume control (10) [**Off / Vol**] counterclockwise to the very end until a clicking sound is heard.

Then, connect the two naked leads at the end of the cable with the supply voltage of the vehicle battery. The unit is designed to operate with 12 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 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.

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

Operation of the TEAM TS-6M

1) Switching on [Off / Vol]

To turn on the radio, turn the On / Off switch (10) [**Off / Vol**] clockwise.
With the help of the squelch control (9) [**SQ / ASQ**], you can set a comfortable volume level. Set the manual squelch to a level where the constant noise of an empty channel is audible - see paragraph 2 Squelch. Now, adjust the volume level.
The memory function of the radio will set the last used norm, frequency band and channel after turning the radio off and then back on, as long as the power supply is not disrupted.

2) Squelch [SQ / ASQ]

The strong background noise, which occurs always on free channels, can be suppressed by the squelch function, which has an automatic and a manual mode.
By turning the squelch control (9) [**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**] (9) uses a preset average value. It can be activated by turning the squelch control counterclockwise all the way to the end. The automatic squelch mode is indicated by the ASQ symbol (6F) in the LCD.

3) Channel selection [UP] [DN]

All channels can be selected by pushing the channel selector keys (2) [**UP**] and (3) [**DN**] at the microphone or by turning the rotary channel selector (8) on the front panel of the radio. The selected channel is displayed on the LCD (6). No channel selection is possible while the radio is in TX mode. The channels are arranged in a consecutive order, in a ring-like-system, i.e. after the highest channel number it starts again with channel no. 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.

4) Modulation selection [Mode]

For the TS-6M, the operating modes AM and FM are available. However, the version TS-6M c (EC CEPT) and the norm EC of the the version TS-6M Full Multi Norm operate in FM only. The selected modulation type is indicated by the AM/FM symbol (6E). To toggle between the modes press the mode key (7) [**Mode**].
If the selected norm does not accept the modulation type AM on the actual channel, you will hear a receipt tone, but it remains on the modulation type FM.
If the radio 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 version **TS-6M Full Multi Norm** in the norm UK, you can toggle between the EC band and the UK band, which are indicated by the symbols **EC** and **UK**, by pressing the mode key (7) [**Mode**]. 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.
After turning the radio off, the TS-6M stores the last channel and the band, as long as the power source remains connected.

5) Norm Selection

The version **TS-6M Full Multi Norm** can be set by the user to the following norms:

DE 80 FM (26.565 - 27.405 MHz), 4 W / 40 AM (26.965 - 27.405 MHz), 1 W
EU 40 FM (26.965 - 27.405 MHz), 4 W / 40 AM (26.965 - 27.405 MHz), 1 W
EC 40 FM (26.965 - 27.405 MHz), 4 W
UK 40 FM (27.60125 - 27.99125 MHz), 4 W / 40 FM (26.965 - 27.405 MHz), 4 W
PL 40 FM (26.960 - 27.400 MHz), 4 W / 40 AM (26.960 - 27.400 MHz), 4 W
EI 40 FM (26.965 - 27.405 MHz), 4 W / 40 AM (26.965 - 27.405 MHz), 4 W

For changing the current norm, please hold the mode key (7) [**Mode**] while turning the radio on. In the display, the symbol of the current norm appears, while all other symbols disappear. Select the norm with the rotary channel selector (8) and confirm your selection by turning the radio off and on again.

To confirm your selection, turn the radio off and on again or wait for approx. six seconds until the radio automatically returns to operation mode.

Regarding the permissions and restrictions of the individual norms in the various european countries, please check the radio passport, which is included in the scope of delivery. The user is solely responsible for the selection of the permissible norm in the country of operation.

Note:

The norm **TS-6M c** (EC CEPT) is internally set to 40 channels FM / 4 Watts only.
The norm **TS-6M i** (EU CEPT) is internally set to 40 channels FM / 4 Watts, switchable to 40 channels AM / 1 Watt. This version can be used in Switzerland.

6) Transmitting

To transmit, press and hold the key (4) [**PTT**] at the microphone (1). The TX symbol in the LCD (6D) will appear and the s-meter (6A) 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 radio will revert to receiving mode.

7) Call tone

If you press the call key (5) [**BP**] while holding the transmit key (4) [**PTT**], a calling tone will be transmitted and can be heard by other participants, provided their radio is set to the same channel and the same modulation type.

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

The TS-6M 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 (13) **[CH9/19]** twice.

9) Receipt-Signal Sensitivity [**RFG**]

Signals sent from immediate proximity can be too strong. It is advantageous to damp very strong signals because they may be received very distorted and will not be clearly understandable.
With the RFG control [**RFG**] (11), the received signal strength will be diminished by reducing the receivers sensitivity.
No signal damping occurs when the control is turned clockwise all the way to the stop. This should be the default setting for regular operation. Further turning counter-clockwise will decrease the receivers sensitivity.

10) Signal meter

The 6-step s-meter in the LCD (6A) indicates the signal strength of a received or send signal.

11) External speaker jack

The TS-6M is equipped with a 3.5 mm jack socket (16) at the rear panel to connect an external speaker of 4 - 8 ohm impedance, e.g. TEAM TS-500. At 4 ohms the speaker load can be 4 watts. When the external speaker is connected, the internal speaker will be switched off.

Additional information

1) Safety instruction

Drivers must obey traffic rules regarding the use of transceivers in a vehicle.
The unit radiates RF energy in transmit mode. Please keep an eye on safety distance to the antenna.

2) General precautions

Protect the mobile radio 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 unit.

3) Servicing

The device must not be opened. Independent repairs or adjustment must not be carried out, since each modification or unauthorized intervention will result in withdrawal of the operation permit and of warranty and repair claims. Do not use the mobile radio if it seems not to function correctly. Disconnect the radio from the DC power source immediately. If there is a defect, the authorized TEAM specialist dealer or TEAM must be contacted immediately.

4) Conformity

The CB mobile transceiver TEAM TS-6M complies to the European directive R&TTE and meets the European standards EN 300 135-1/-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 TS-6M

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

CEPT / EC / EU / EI / DE	DE	UK	PL
01 - 26.965	41 - 26.565	01 - 26.60125	01 - 26.960
02 - 26.975	42 - 26.575	02 - 26.61125	02 - 26.970
03 - 26.985	43 - 26.585	03 - 26.62125	03 - 26.980
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 : 0.8µV / 1.2 KHz; 20 dB (S+N+D)/N AM : 1.45µV / 60%; 20 dB (S+N+D)/N
Zwischenfrequenzen / Intermediate frequencies / Fréquences Intermedie / 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. 4 W / 50 Ohm
Hub / Deviation / Déviation / Desviasión / 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: 1W - 600 mA / TX 4W - 1800 mA / TX
Betriebsspannung / Power Supply Voltage / Alimentation / Alimentación / Voedingsspanning	max. 12 V nom.
Abmessungen / dimensions / dimensions / Dimensión / Afmetingen	168 mm x 40 mm x 125 mm
Gewicht / weight / Poids / Peso / Gewicht	795 gr.

TEAM TS-6M

for sale and use in:

R&TTE NOTIFICATION

Länder Countries	Version	Vertrieb Distribution	Betrieb Operation	Anmelde- & Gebührenfrei Registration- & Chargefree
AT	-c-	√	-	√
CH	-c-	√	√	-
CZ	-EC-	√	√	-
DE	-DE-	√	√	√
DK	-EC-	√	√	√
ES	-EI-	√	√	-
ES	-EU-	√	√	-
FR	-EI-	√	√	-
FR	-EU-	√	√	-
FIN	-EU-	√	√	√
GB	-UK-	√	√	-
GR	-EI-	√	√	-
IT	-EI-	√	√	-
IT	-EU-	√	√	-
LT	-EU-	√	√	√
LU	-c-	√	√	√
NO	-c-	√	√	√
NL	-EU-	√	√	√
PT	-EU-	√	√	-
PL	-EI-	√	√	-
PL	-PL-	√	√	-
SE	-c-	√	√	√

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