RoadCom-FS

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

RoadCOM-FS

CTCSS88
28.88825 **88**
MHz [TX]

AM EU UK
FM
DW SC
HI LO

SRF1   3   5   7   9   +30

SQ   VOX   VOL

ASQ   OFF

DW/⌀   SC   MD   CH9/19   LCR

VOX   B   Hi/Lo   CTCSS   SET

TEAM

CB Communication

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

TEAM
electronic

RoadCOM-FS

CTCSS88
28.88825
MHz
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AM EU UK
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DW SC MD CH9/19 LCR
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TEAM
CB Communication

SQ VOL VOX OFF ASQ

SIGNAL
TEAM

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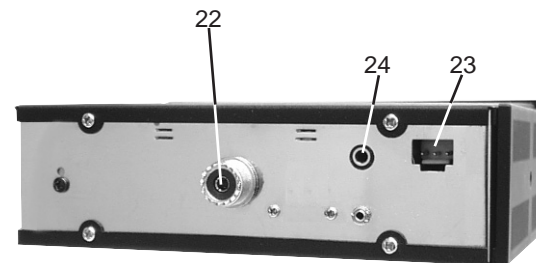
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 S-mètre externe

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2

3

Setting up the TEAM RoadCom-FS

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 strong.
> The bigger the mechanical size of the antenna, the higher the range of operation.

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

> 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 (21) 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 (10) 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
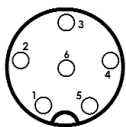
Solder side view of the microphone connector or top view of the microphone plug.

The standard microphone DM-106S, which is equipped with channel selection and signal tone, is included with the RoadCom-FS. This microphone is the best selection for the Road-Com-FS. If you want to use instead another microphone than the supplied DM-106S, you have to ensure that the microphone capsule remains also in released PTT key position connected with the modulator input of the transceiver. Otherwise the VOX function (voice activated control of the transmitter) of the RoadCom-FS cannot work.

5) Power source

Before connecting the unit to a suitable power source via the enclosed fused DC power cable, the device must be switched off by turning the volume control (7) [**Vol / Off**] anticlockwise as far as the stop and hearing a switching sound. Now connect the power cable to the connector (22) on the rear panel. To protect the transceiver against wrong polarity, the cable plug fits only in one way into the connector (22).
Then connect the two naked leads at the other 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 microphone, aerial and power source have been correctly connected, radio operation can be undertaken.

Operation of the TEAM RoadCom-FS

1) Switching on [Vol / Off]

Before switching the unit set the squelch control (8) [**SQ / Asq**] to the counterclockwise stop but without activating the internal switch. The device is switched on by turning the volume control (7) [**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 backlight 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 memorised after the unit is switched off, 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. By turning the squelch control (8) [**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.

3) Confirmation tones

In reception mode all entries made by the keys, except the VOX function On/Off switch (13), the PTT key (4) [**PTT**] and the call tone key (5) [**SIGNAL**] will be confirmed with a short receipt tone. If you want to switch off the tones, press the channel scanning key (15) [**Scan**] for about 2 to 3 seconds, until a second, short receipt tone comes from the speaker. Now, the unit will be silent, if any keys are pressed.

In the same way, the receipt tones can be reactivated.

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) Audio reproduction sound selection [Hi / Lo]

The RoadCom-FS is equipped with an audio reproduction sound toggle key (18) [**Hi / Lo**]. 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 audio reproduction sound key (18) [**Hi / Lo**] the receiving tone is changing to a bright sound in the loudspeaker. This is indicated in the LCD window by the symbol "**HI**". By pushing the sound key again, the receiving tone is changed back to mellow, indicated by the symbol "**LO**".

6) LCD background illumination [B]

By pressing briefly the LCD illumination toggle key (16) [**B**] you can change the LCD back-light illumination colour from orange to blue and vice versa. If you depress the LCD illumination toggle key (16) [**B**] for about 2 to 3 seconds, the LCD backlight illumination switches itself completely off. In the same way the LCD backlight illumination can be recovered again.

7) Modulation selection [Mode]

The RoadCom-FS can operate in AM or in FM modulation.However, some versions work only in FM. When being switched on after a disruption of the supply source the unit works on channel number 9 in FM mode which is indicated the symbol "FM". If the unit accepts also the modulation type AM on the actual channel, you can toggle it by pressing the key (12) **[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 "**RoadCom-FS 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 (12) [**Mode**] If the actual model type of the RoadCom-FS is the "RoadCom-FS-uk", you can only work in FM mode. By pressing the key (12) [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 RoadCom-FS type distributed in Great Britain is called "RoadCom-FS-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 (20) **[CH9/19]** while turning the radio on. Release the key (20) when one of the three digits **1**, **2** or **4** will start blinking in the display. Meanwhile all symbols except the S-Meter and signal strength indication will disappear. 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 (20) **[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 (20) **[CH9/19]** or wait 5 seconds. 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 "RoadCom-FS-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) CTCSS [CTCSS] & [SET]

The function CTCSS (Continuous Tone Coded Squelch System) allows the pointedly selection of certain radios within a selected FM channel. When transmitting, the CTCSS code, a low tone (67 -300 Hz), is sent. This CTCSS code controls the squelch of the receiving radio. Only if the transmitted CTCSS-Tone matches the CTCSS-tone of the receiver, the squelch opens and the transmitted signal can be heard.

By default, no CTCSS code is assigned to a FM-channel. To set a CTCSS code to a FM-channel please follow these instructions:
1. Select the FM-channel that a CTCSS code should be assigned to.
2. Hold the CTCSS key **[CTCSS]** pressed until the CTCSS symbol in the display starts blinking.
3. Assign one of the 39 available CTCSS codes (0 - 39; 0 = no code selected)with the Set **[SET]** or CTCSS key **[CTCSS]**. Step through the CTCSS code numbers (0 - 39) until the desired code has been reached. When using the CTCSS-key pay attention to not press the key too long, otherwise the the setting process is aborted.
4. To confirm your selection press the CTCSS-key for approximately one second. The CTCSS symbol stops blinking and lights constantly.

12) Last channel recall [LCR]

By a brief depressing on the key (17) [**LCR**] the transceiver will return to that channel and that modulation type, to which it was adjusted, when the PTT key was pressed the last time. The actual channel and modulation type will be stored temporarily in a register. If you press on the key (17) [**LCR**] once again, the unit will skip back to the previously selected channel and modulation type stored in the register, provided, that you did not change the channel and/or the modulation type in the meantime.

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

The RoadCom-FS contains the priority channels 9 and 19. Priority channel 9 is selected by pressing the key (20) [**CH9/19**] once. To set priority channel 19, press the key (20) **[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 (20) [**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.

14) Channel scanning [Scan]

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 para "2" before activating the scan function.

Depress the key (15) [**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**".

For a premature deactivation of the scan function, depress the key (15) [**Scan**] once again, any other key on the front panel, except the VOX function On/Off switch (13), or press the Up/Down keys (2, 3) or the PTT key (4) on the microphone, or just turn at the rotary channel switch (9) [**Channel**]. 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.

15) Dual watch function [Dual Watch / ⌒]

This function allows you to watch activity on two channels at a time. 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) [**Channel**] or the Up/Down keys (2) [▼] and (3) [▲] on the microphone and its modulation. Then depress briefly the key (19) [**Dual Watch / ⌒**] so that the dual watch symbol "**DW**" flashes in the LCD window. Now select the second survey channel by means of the rotary channel (9) switch or the Up/Down keys (2) and (3) on the microphone and its modulation. Then depress briefly the key (19) [**Dual Watch / ⌒**] once again so that the dual watch symbol "**DW**" appears constantly, which means that 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.

If on none of both survey cannels is received any signal, the unit will step from one channel to the other two times every second. If on one of these channels is received a signal, which opens the squelch, the unit will remain on it until the channel is free again. 7 seconds later the unit will continue stepping from one channel to the other like before.

If you press briefly the key (19) [**Dual Watch / ⌒**] another time, the dual watch symbol "**DW**" will flash again in the LCD window. Now you can select another second survey channel by means of the rotary channel switch (9) or the Up/Down keys (2) and (3) on the microphone and its modulation. That channel, on which the unit was, while the dual watch key was pressed, is the first survey channel now.

To deactivate the dual watch function and to stay on the actual channel, depress twice briefly the dual watch key (19), any other key on the front panel, except the VOX function On/Off switch (13) or press the Up/Down keys (2) and (3), or just turn at the rotary channel switch (9). Transmitting is possible on the actual channel but it does not terminate the dual watch function. As a token of the deactivation of the DW function the dual watch symbol "**DW**" will disappear from the display.

16) Key lock function [⌒]

If you press the dual watch or key lock key (19) [**Dual Watch / ⌒**] and hold it for a short period, you will hear 2 seconds, after starting to press, a second short receipt tone which announces that the key lock function is active. The key lock function is also indicated with a key symbol "⌒" in the LCD window. Now the unit ignores any entry from any key on the front panel, except the VOX function On/Off switch (13), and also the Up/Down keys (2) and

(3) and the rotary channel selector (9). Thus it is also impossible to stop most activated functions. Only transmission is possible. The function remains even active if the unit is switched off in the meantime, provided that the supply voltage remains connected.

To deactivate the key lock function depress the key (19) [**Dual Watch / ⌒**] once again and hold it for a short period, until you will hear 2 seconds later a second short receipt tone which indicates that the key lock function is deactivated now. At the same time the key symbol "⌒" disappears from the display. Now the keys are released again.

17) VOX function

The VOX function is a voice activated control of the transmitter. That means talking into the microphone will make the transceiver turn automatically to transmit mode. Thus keeping the PTT key on the microphone depressed during sending out a message becomes unnecessary. To prevent an unwanted transmission the VOX circuit in the RoadCom-FS is coupled with the squelch circuit of the receiver. This has the effect, that the voice activated switching on of the transmitter by sound signals from the microphone can only take place, when the squelch is closed at the same time. Therefore make sure that the squelch is closed on free channels before you activate the VOX function. For best results use auto squelch.

To activate the VOX function depress the button of the VOX function On/Off switch (13) on the left side of the front panel until it latches. If now the actual channel is free and the squelch is closed, the red standby LED of the VOX function (14) [VOX] lights up. This indicates that the unit is ready for radio operation with the VOX function now.

If you speak loud enough into the microphone, the unit will switch itself automatically to transmit mode, which will be indicated by the symbol "**TX**" on the LCD. The LED (14) [**VOX**] remains alight also in transmit mode. During your message it may occur, that the actual loudness of your voice falls below the volume level, which is necessary for the VOX function to make the unit switch to transmit mode. If the duration of those periods of low speech level remains below a certain time, which is called the VOX delay time, the unit will stay in transmit mode. If the duration of those periods exceeds the VOX delay time, the unit returns to the receive mode. In this moment the LED (14) [**VOX**] switches itself briefly off and on again.

If the squelch is open for some reasons, the LED (14) [**VOX**] will be dark, even with activated VOX function. One reason for an open squelch could be that there is a station on the channel, for example the partner station. Another reason could be that the noise level has increased so that the squelch remains open also on a free channel. In this case the unit will not switch itself to transmit mode by talking into the microphone, no matter how loud you speak.

The unit can be switched to transmit mode by the help of the transmit key on the microphone at every time, also with active VOX function.

To deactivate the VOX function depress the button of the VOX function On/Off switch (13) until it is released.

18) External speaker jack

The RoadCom-FS is equipped with a 3.5 mm jack socket (23) 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.

19) 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 (24) at the rear panel of the RoadCom-FS 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.
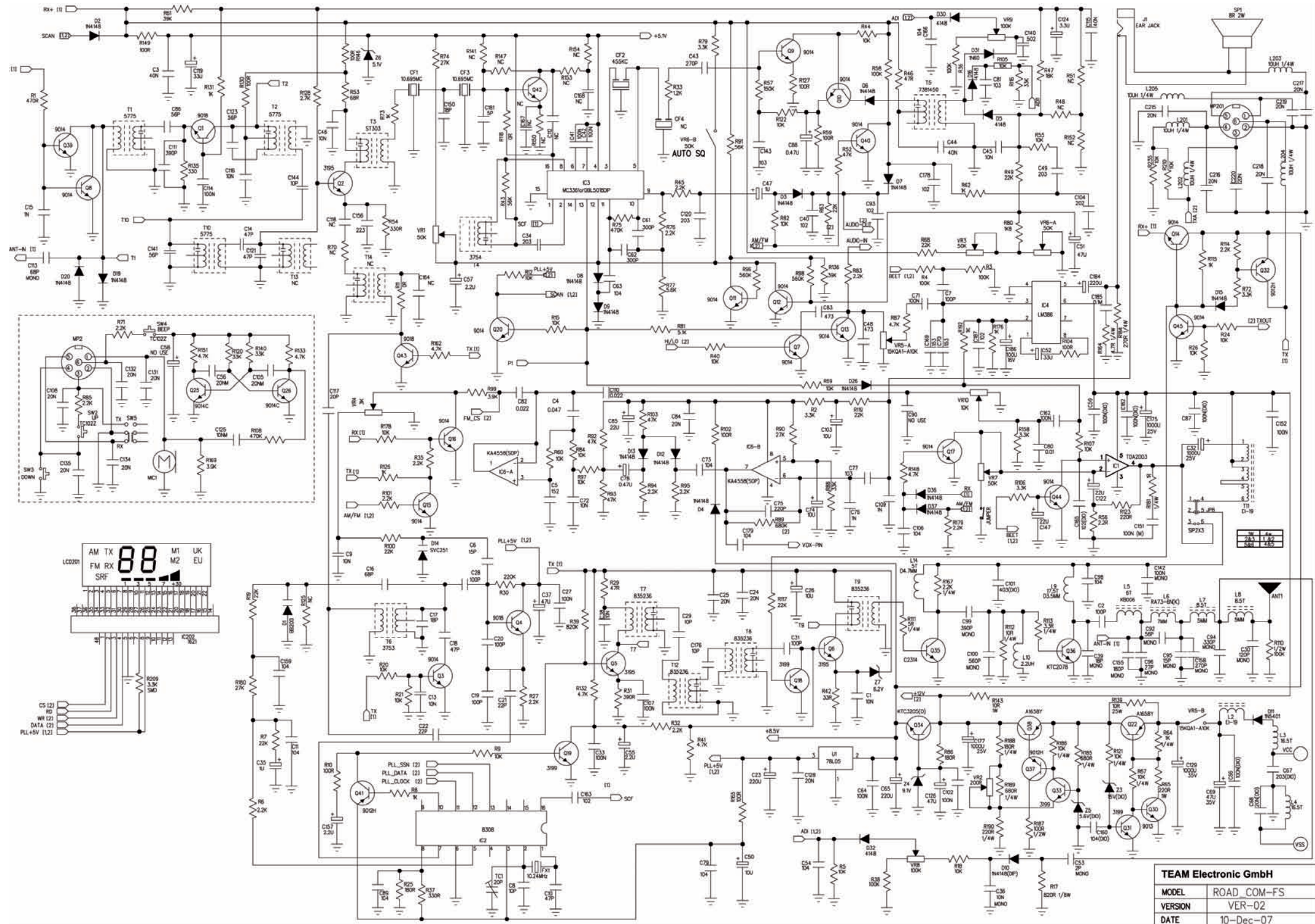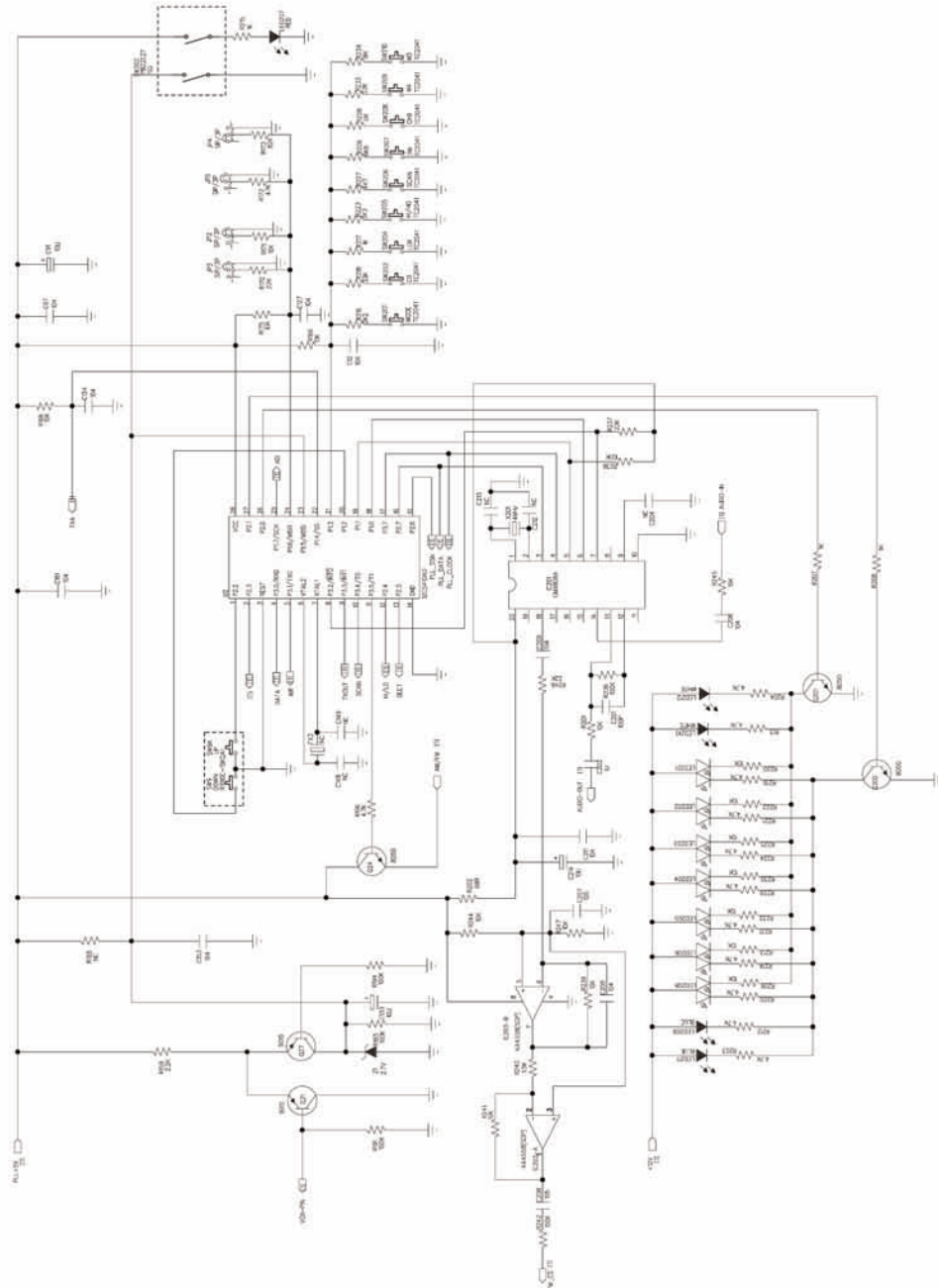
TEAM Electronic GmbH

MODEL	ROAD_COM-FS
VERSION	VER-02
DATE	10-Dec-07

TEAM RoadCom-FS

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

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

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