Components

Central unit in aluminium enclosure W130 x H164 x D45 mm Operating voltage 12 - 17VDC Software version 7971002605F-79612505F

E1 approval no. E1 - 10 R - 044454

Directional electret hand-held microphone with support, pop-protected, with 45 cm spiral cable and Neutrik plug

Ref. no. 40.080.033

Ref. no. 40.005.042

Ref. no. 40.080.096

Ref. no. 40.080.095

type EM 135 sensitivity: -37dB +/-3db (0dB=1V/Pa)

impedance: 1,8kΩ

Electret hand-held microphone PEIKER DD60/S Ref. no. 40.080.092

with 2.3 m spiral cable C34 and Neutrik plug (pin assignment see ref. no. 40.080.096) sensitivity: -48dB +/- 3dB (0dB=1V/Pa)

impedance: 2kΩ

Neutrik jack for hand-held microphone,

2,3 m cable with crimped cable ends Pin Assignment:

1 microphone mass 3 button PTT GND 26

2 microphone signal 4 button PTT

Microphone support HV7 for ref. no. 40.080.092

Loom of wires for central unit ref. no. 40.080.033 Ref. no. 40.080.097

various cable lengths

Omnidirectional electret microphone, Ø 6mm, Ref. no. 40.005.043 with shrink sleeve, various cable lengths type EM 125 type EM 125 type EM 158

sensitivity / impedance: Ref. no. 40.005.044 -43dB +/-3dB (0db=1V/Pa) -32dB +/-3db type EM 158 1.6kΩ 1.6kΩ

Omnidirectional electret microphone in Ref. no. 40.005.045 stainless steel capsule, Ø 8 mm, water resistant, type EM 125 type EM 125 type EM 158 sensitivity / impedance: Ref. no. 40.005.046

-43dB +/- 3dB (0dB=1V/Pa) -32dB +/-3db type EM 158 1.6kΩ 1.6kΩ

Ref. Nr. 40.006.018 Pressure chamber loudspeaker, TL5, 6W / 8Ω. plastic housing, alu bracket, various cable lengths

(outside the car) Flush-mounted ceiling loudspeaker, 6W / 8Ohm, Ref. Nr. 40.006.016

round, with mounting ring and perforated alu grill. Ø100 mm, black, various cable lengths (car interior)





CarCom **Intercom System** for Vehicles

Technical Documentation Operating Instructions



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Technical modifications reserved

CarCom - Intercom System for all kinds of vehicles enabling communication inside a vehicle as well as with a person outside.

FEATURES

- ♦ Open duplex
- ♦ Press-to-talk with volume increase
- Siren
- ♦ Gong
- Communication between Driver and passenger (VIP) Driver and a person outside the vehicle

Passenger and a person outside the vehicle

COMPONENTS

Vehicle - interior

Central unit

Electret microphones

Loudspeakers Various buttons

Vehicle - exterior

Pressure chamber loudspeaker

1 or 2 electret microphones

f.ex. fixed to exterior mirrors

Starting the system:

Tune the external potentiometer to the maximum or bridge over pins 24 and 26.

- Press button "communication front > < exterior". or hold button down (version 797101). Tune potentiometers exterior volume" and front volume" for desired exterior and interior volume. In case of "push to talk" mode (potentiometer "balance" < 6) hold down button "PTT" to adjust the "exterior volume". Tone colour can be modified by tuning potentiometers "treble" and "bass".
- Press button for "communication rear > < front" Tune potentiometer "rear volume" to reach desired rear volume
- Press "call" button Tune potentiometer "gong" for desired volume.

The position of the potentiometer "balance" affects front, exterior and rear volumes, depending on the operating mode. Together with the "PTT" button the operating mode changes from open duplex to simplex.

- Communication front > < exterior Tune potentiometer "balance" towards zero to decrease the exterior volume, press and hold the "PTT" button to decrease front volume.
- Communication rear > < front Tune potentiometer "balance" towards zero to decrease front volume, press and hold the "PTT" button to decrease rear volume.

If the "balance" potentiometer is turned to the ultimate right-hand position, volume can't be influenced by pressing the "PTT" button.

Operating Instructions:

The desired function is switched on or off by pressing the respective buttons.

The volume of a communication is adjusted via external potentiometer.

- · Communication from front to exterior Press button "communication front" > < exterior". front LED is on. Version 797101 Press button ...communication front > < exterior" or press and hold down button "PTT".
- · Communication from rear to front Press button ...communication rear > < front". front and rear LEDs are on
- · Communication from rear to exterior Press button ..communication rear > < exterior". rear LED is on.
- · Communication from exterior to front and rear Press button ..communication exterior > rear and front", front and rear LEDs are flashing (500ms on -1s off).
- Switching on the gong Press "call" button, front and rear LEDs are on during the gong signal is heard, then they are flashing (500ms on - 500ms off).
- · Switching the siren on Press button "siren"
- · Switching the siren off Wait at least 2s, then press and hold down "siren" or any other button till the siren is switched off.

AMP Multilock Connectors 040 Series



Potentiometer set in factory



balance

rear volume gong volume



balance Version 797101



exterior volume front volume treble hass

Technical Data

Pin Assianment

Central Unit

Operating voltage Frequency response Power consumption Standby Power consumption Standby Version 797101 Output impedance front/exterior Loudspeaker impedance front/exterior Output impedance rear Loudspeaker impedance rear

rear

rear

front

front

exterior

exterior

12 -17 VDC 150 - 12500 Hz 6mA < 100mA max. 22W at 4Ω min. 4Ω

max.5W at 8Ω min. 8Ω