



A Division of SCARECROW BIO-ACOUSTIC SYSTEMS LIMITED

## **BUDDY BUD 100 single zone & BUD 200 two zone DESK PAGING MICROPHONES INSTALLATION INFORMATION**

Thank you for buying a **BUDDY** paging microphone, a simple yet robust product with a reputation for excellent voice clarity.

### **KEY POINTS:**

1. suitable for passive or electronic access amplifiers
2. microphone incorporates a speech blast screen
3. soft touch press-to-talk button/s, with minimal noise transfer
4. all steel construction, with weighted base – not easily knocked over, finished in scratch and chip resistant powder coat paint
5. anti-slip feet, will not slide on polished surfaces
6. **BUDDY** is fitted with a moving coil microphone capsule, perfect for most amplifier input sensitivities. For less sensitive amplifiers an electret version is available; order suffix /E;

### **ELECTRET VERSION BUD 100/E BUD 200/E**

These have to be powered (polarized) externally from a 9V to 24V (maximum) d.c voltage applied between the polarising (BLACK) lead and cable screen (ground). The audio output is then taken between (RED) and cable screen (ground).

All other information remains valid.

### **TECHNICAL SPECIFICATION**

#### **MOVING COIL (STANDARD) MICROPHONE**

**SENSITIVITY:** Suitable for all amplifiers with at least 500uV (0.5mV) sensitivity.

**IMPEDANCE:** 600 ohms

**CHARACTERISTICS:** Polar diagram approximates to cardioid, presence lift at 3KHz

**FREQUENCY RESPONSE:** ± 6dB : 100 Hz to 12KHz

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As supplied a **BUDDY** microphone requires only the fitting of a suitable interface connector to suit the host amplifier. The connecting lead has the following colour code:

MICROPHONE SIGNAL : RED/BLACK; these are shorted together when the PRESS TO TALK button is not in use.

ACCESS (SINGLE ZONE) : YELLOW/WHITE; these are used to close the host amplifier access pair if so equipped.

BUD 200 : YELLOW and WHITE close to GROUND (cable screen) for access use on operating the relevant PRESS TO TALK zone key.

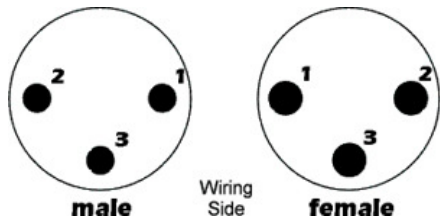
ACCESS (TWO ZONE) : YELLOW ZONE 1  
WHITE ZONE 2

WHEN YELLOW / WHITE ARE NOT TO BE USED ENSURE THESE ARE SAFELY ISOLATED.

***THIS PAGE DOES NOT APPLY TO ELECTRET VERSIONS OF  
BUD100/200***

**WIRING TO XLR CONNECTORS:**

(ELECTRONIC ACCESS UNAVAILABLE ON MOST AMPLIFIER PRODUCTS USING 3 PIN XLR'S)



|        |                          |
|--------|--------------------------|
| PIN 1: | GROUND /<br>CABLE SCREEN |
| PIN 2: | BLACK                    |
| PIN 3: | RED                      |

*PIN NUMBERS MOULDED INTO XLR CONNECTORS*

**WIRING TO JACK SOCKETS:**

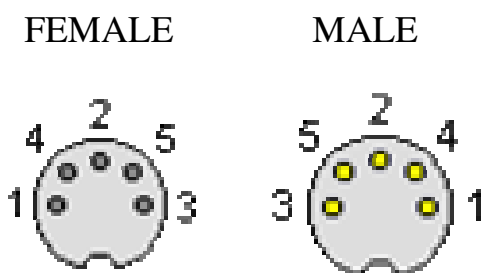
(ELECTRONIC ACCESS UNAVAILABLE ON MOST AMPLIFIER PRODUCTS USING JACKS)

|  |             |                     |
|--|-------------|---------------------|
| <p><b>MALE STEREO 1/4" (6.3mm) or<br/>3.5mm Jack</b></p> | <b>Pin:</b> | <b>Description:</b> |
|  | Tip         | RED                 |
|  | Ring        | BLACK               |
|  | Sleeve      | CABLE SCREEN        |

***FOR MONO (TIP & SLEEVE)  
JACK PLUG :***

|        |                           |
|--------|---------------------------|
| TIP    | : RED                     |
| SLEEVE | : BLACK +<br>CABLE SCREEN |

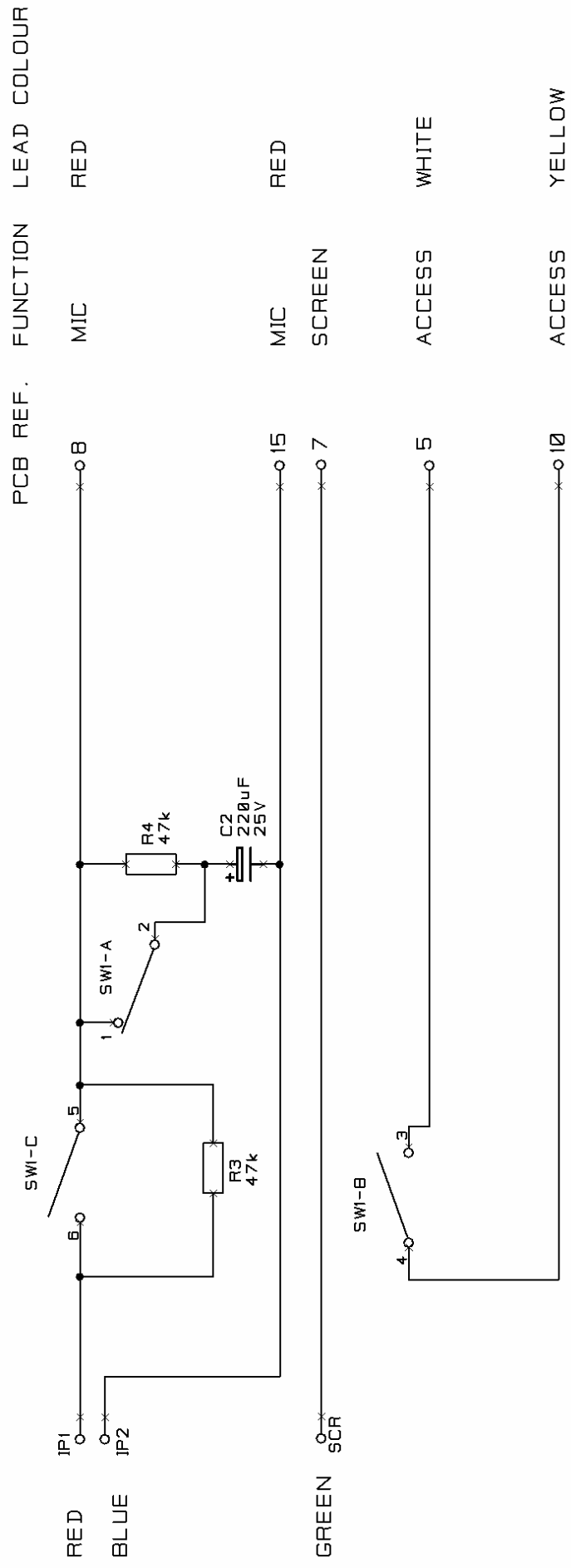
**WIRING TO 5 PIN DIN CONNECTORS:**



|   |              |
|---|--------------|
| 1 | RED          |
| 2 | CABLE SCREEN |
| 3 | BLACK        |
| 4 | YELLOW       |
| 5 | WHITE        |

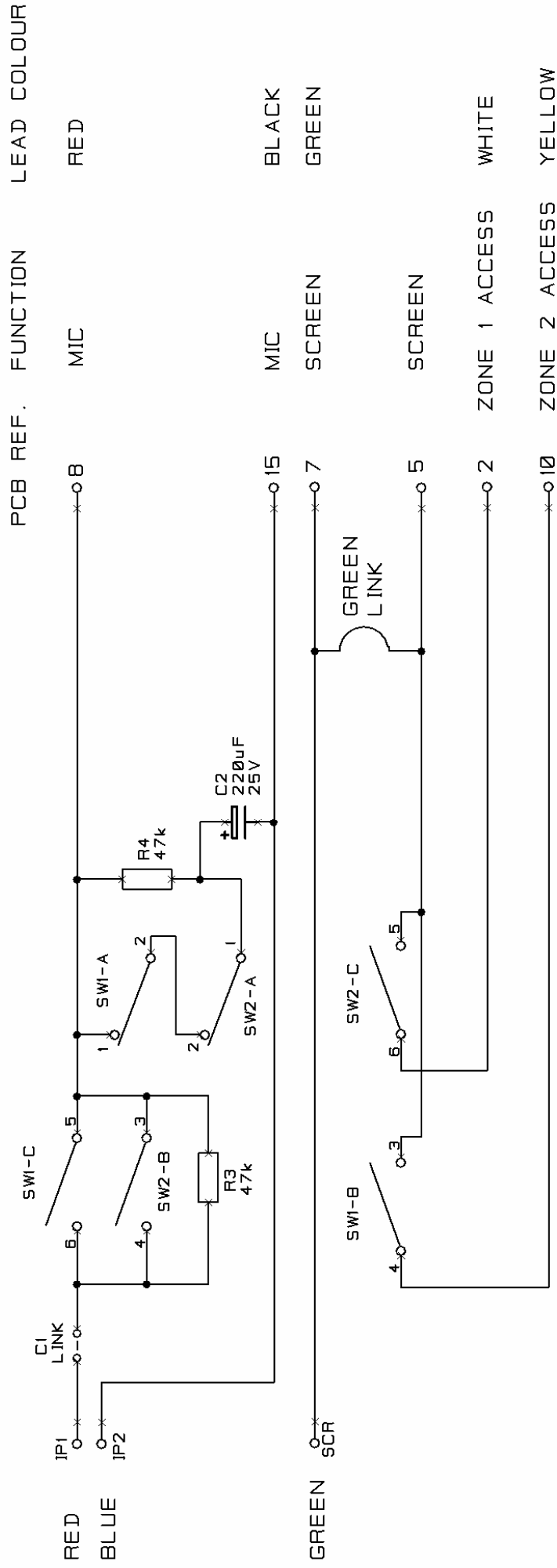
# CIRCUIT DIAGRAM AND CONNECTION INFORMATION

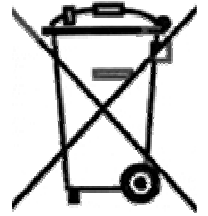
## BUD 100



# CIRCUIT DIAGRAM AND CONNECTION INFORMATION

## BUD 200





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## INSTALLATION INSTRUCTIONS

### BUD100/L

*(for use with MIM 020 and MPA 050 Microphone management system)*

BUD100/L is similar in construction to BUD100 except that it incorporates a 'system in use' LED.

| <u><b>XLR PIN CONNECTIONS/CABLE IDENTS</b></u> |                 |   |
|--|-----------------|---|
| <u>PIN</u>                                     | <u>PURPOSE</u>  | <u>FLEXIBLE COLOUR</u>                    |
| 1  | Screen (GROUND) | SCREEN                                    |
| 2  | MICROPHONE      | BLACK                                     |
| 3  | MICROPHONE      | RED                                       |
| 4  | PRESS TO TALK   | YELLOW (+)<br>Screen (GROUND) is negative |
| 5  | BUSY LED        | WHITE (+)<br>Screen (GROUND) is negative  |

***IF IN DOUBT, PLEASE PHONE US! +44 (0)1825 766363***

CT Manuals / BUD100L

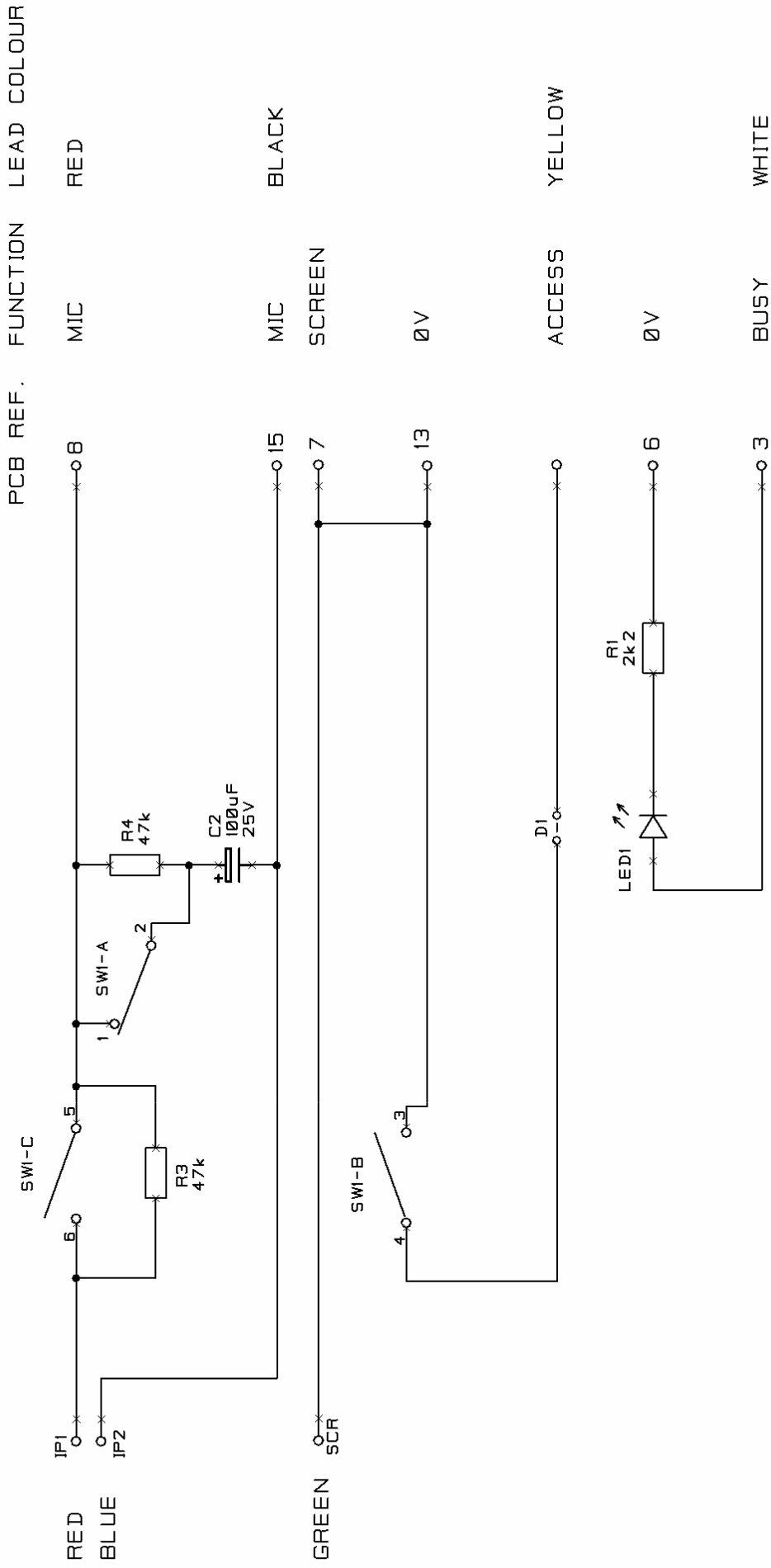
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# CIRCUIT DIAGRAM AND CONNECTION INFORMATION

## BUD 100 L





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## BUD100

### ELECTRET OPTION/E

Electret (capacitor) microphones do not have any magnetic components, so they are ideal for use in the proximity of audio loops or other inductive environments. However, they require phantom powering to become operational, through an in-built F.E.T Pre-amplifier, or a polarizing voltage from an external source.

A further possible advantage is that electret microphones have a higher output and generally a wider, smoother, frequency response than moving coil ones.

SUGGESTED POLARIZING VOLTAGE : 9v – 24v maximum

AVERAGE POLARIZING CURRENT : 1mA

AVERAGE AUDIO OUTPUT : 3mV, 1K5 input impedance

### BUD100/E CABLE CONNECTIONS

MICROPHONE OUTPUT +VE : RED

MICROPHONE OUTPUT –VE : BLACK

0v GROUND : SCREEN

ZONE ACCESS ZONE WHITE ZONE (closes to YELLOW)

CT Manuals/BUD100-E

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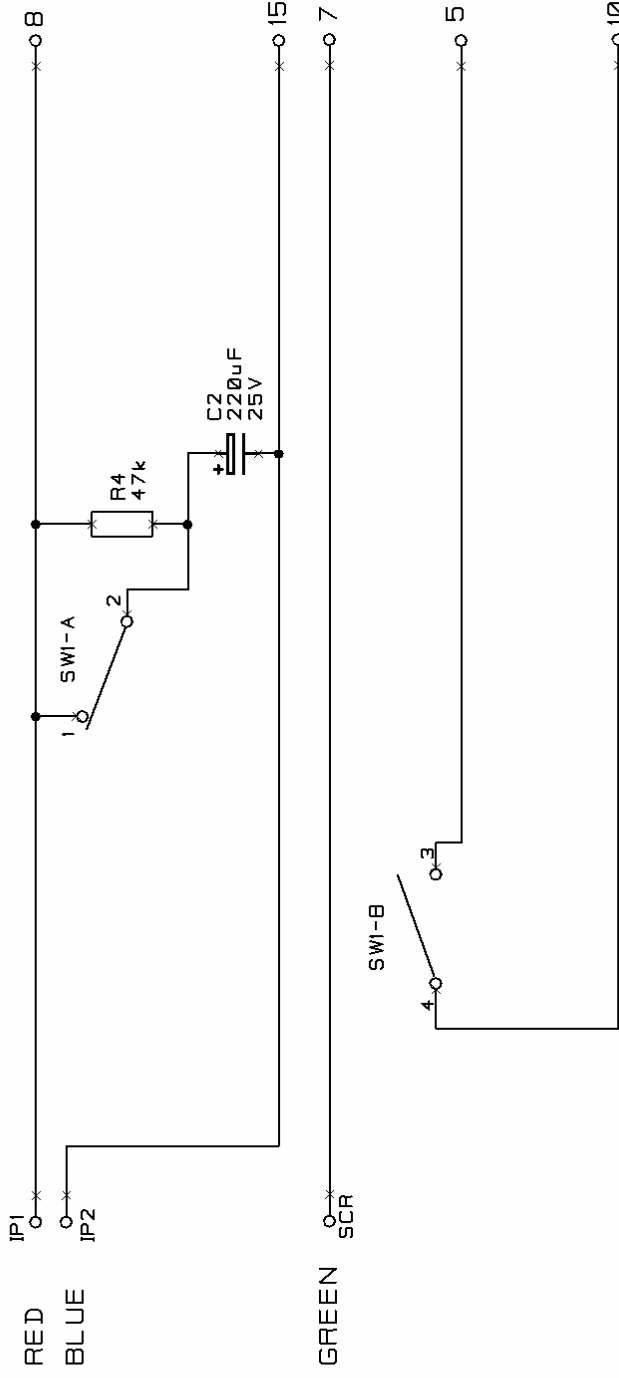
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# CIRCUIT DIAGRAM AND CONNECTION INFORMATION

## BUD 100 E

### (INPUT POLARIZING VOLTAGE POSITIVE (+) TO (8) MIC (RED))





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## BUD 200

### ELECTRET OPTION/E

Electret (capacitor) microphones do not have any magnetic components, so they are ideal for use in the proximity of audio loops or other inductive environments. However, they require a polarizing voltage to become operational, through an in-built F.E.T Pre-amplifier.

A further possible advantage is that electret microphones have a higher output and generally a wider, smoother, frequency response than moving coil ones.

SUGGESTED POLARIZING VOLTAGE : 4.5v – 9.0v dc

AVERAGE POLARIZING CURRENT : 1mA

AVERAGE AUDIO OUTPUT : 3mV, 1K5 input impedance

NOTE: UNBALANCED AUDIO OUTPUT!

### BUD200/E CABLE CONNECTIONS

MICROPHONE OUTPUT : RED

POLARIZING POSITIVE : BLACK

0v GROUND : SCREEN

ZONE ACCESS ZONE 1\* WHITE ZONE 1 (closes to SCREEN), ground

ZONE ACCESS ZONE 2\* YELLOW ZONE 2 (closes to SCREEN), ground

\*WHEN “PRESS-TO-TALK” IS FUNCTIONED

CT Manuals / BUD200/E

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# CIRCUIT DIAGRAM AND CONNECTION INFORMATION

## BUD 200 E

### (INPUT POLARIZING VOLTAGE POSITIVE (+) TO (8) MIC (RED))

