16 CHANNEL FORK LIFT TRUCK MOUNTING TRANSMITTER INSTALLATION MANUAL



4 CHANNEL TRANSMITTTER MODEL 4244



16 CHANNEL TRANSMITTTER MODEL 4416

NOTE: The model 4416 Transmitter operates in conjunction with the following Amber Receivers:
model 4224 4 Channel Receiver
Model 4221 Single channel Receiver.

SPECIFICATION
Operating temperature range: -20 to +60 degrees Celsius.
Enclosure & Buttons: IP65
Operating frequency: 433.92 MHz.
Transmitter code type: Rolling code.
Battery: CR2450 Lithium 3V. The battery life should be in excess of **10 years**.

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ANTENNA

Note that the antenna is internal.

MOUNTING

The Transmitter case may be mounted either on the facia of the fork lift truck or, preferably, on the engine cover to the right-hand side of the driver's seat using the 4 TEK screws provided. The Transmitter case may be mounted either on the facia of the fork lift truck or on the engine cover to the right-hand side of the driver's seat using the 4 TEK screws provided: - **This is the preferred position, as the driver is able to feel the positions of the 4 buttons, without looking at the transmitter and safely keep his eyes on the direction of travel of the truck.**

LED ACKNOWLEDGEMENT

Note that the LED will illuminate when a button is pressed, to confirm that the transmitter is working in one of 4 coded groups as follows:

The LED will illuminate **RED** to indicate that GROUP **A** is working.
The LED will illuminate **YELLOW** to indicate that GROUP **B** is working.
The LED will illuminate **GREEN** to indicate that GROUP **C** is working.
The LED will illuminate **BLUE** to indicate that GROUP **D** is working.

The brightness of the LED is an indication of the state of charge of the battery.

PROGRAMMING EACH DOOR

The model 4244 Transmitter operates in conjunction with model 4224 4 Channel, 4222 2 channel and model 4221 single channel Receiver.

If there are more than 4 doors to be controlled by the transmitter, it is recommended that a coloured figure is painted on each door as follows:

DOOR 1,2,3,4: RED 1,2 3 4
DOOR 2, 6, 10, 14: YELLOW 1,2,3,4
DOOR 3, 7, 11, 15: GREEN 1,2,2,4
DOOR 4, 8, 12, 16: BLUE 1,2,3,4

NOTE THAT IT IS IMPORTANT, IN CONSIDERATION OF SAFETY, THAT EACH DOOR IS PROGRAMMED TO AUTO-CLOSE TO ENSURE THAT AN INCORRECT BUTTON PRESS WILL NOT CLOSE A DOOR, BUT WILL ONLY OPEN THE DOOR.

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DOOR GROUP PROGRAMMING

The transmitter can be programmed to control 16 channels, in any one of **four** groups of 4 channels by pressing and holding two adjacent channel buttons together as follows:

GROUP A

Press and HOLD button 1 and 2 together for 2 seconds. Release the buttons after the LED flashes **RED**. This confirms that group **A** is programmed.

GROUP B

Press and HOLD button 3 and 4 together for 2 seconds. Release the buttons and the will LED flash **YELLOW**. This confirms that group **B** is programmed.

GROUP C

Press and HOLD button 1 and 3 together for 2 seconds. Release the buttons and the LED will flash **GREEN**. This confirms that group **C** is programmed.

GROUP D

Press and HOLD button 2 and 4 together for 2 seconds. Release the buttons and the LED will flash **BLUE**. This confirms that group **D** is programmed.

RECEIVER WIRING

Please refer to the Receiver instructions for the Amber model's 4221,4222 and 4224 Remote Control Receivers.

Although it is possible to connect each group of 4 doors to one 4 Channel receiver. It is preferable to install a separate Single channel receiver model 4221 for each door as the receiver's position with its internal antenna will provide the optimum remote control operating range for each door

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The Normally Open (N/O) and COMMON relay contacts of each receiver channel should be wired to the related OPEN terminals of each door control unit as follows:

Note that the relay contact terminals are all volt-free.

TRANSMITTER CODE PROGRAMMING

Up to 30 transmitter codes can be programmed into each receiver's memory.

ADDITIONAL TRANSMITTER CODE PROGRAMMING

Follow the same procedure as programming the first transmitter.

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