P/N A3A1221E

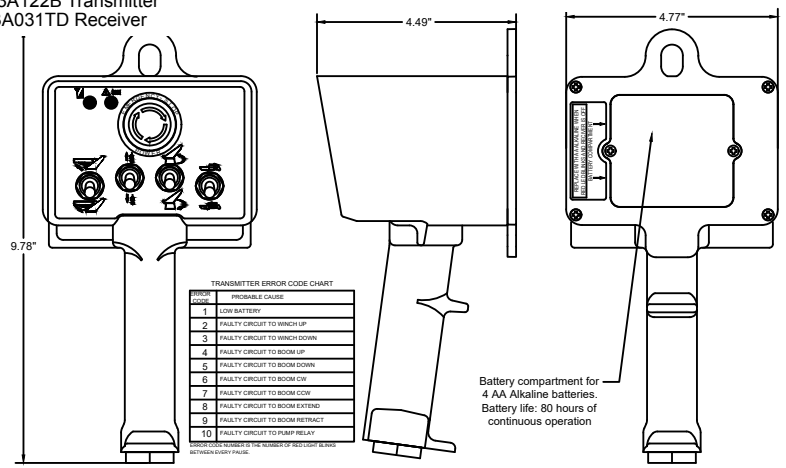
Sales Kit, Mini Crane Guider with VC95 RX

Including:

1 EA - A3A122B Transmitter

1EA - A3A031TD Receiver

TRANSMITTER:



TRANSMITTER ERROR CODE CHART

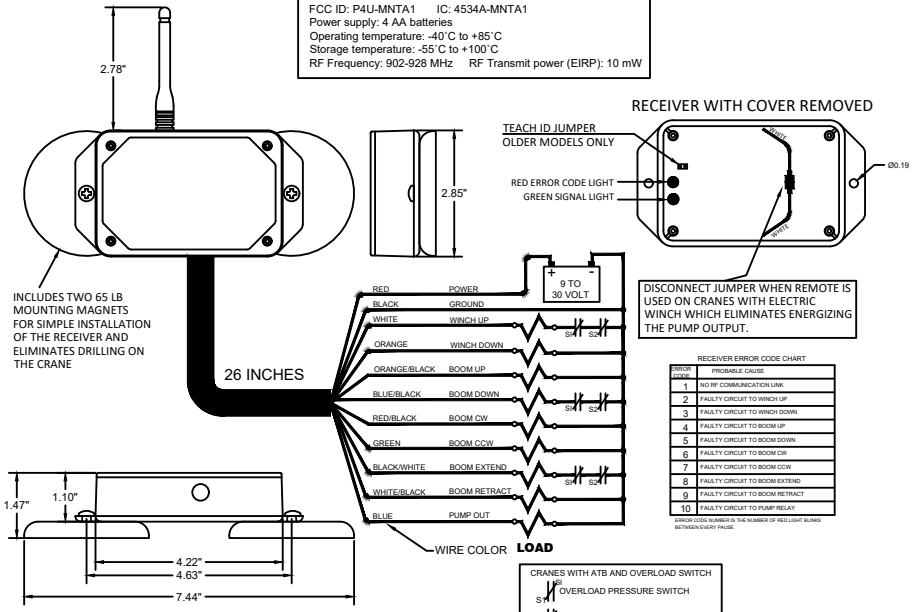
ERROR CODE	PROBABLE CAUSE
1	LOW BATTERY
2	FAULTY CIRCUIT TO WINCH UP
3	FAULTY CIRCUIT TO WINCH DOWN
4	FAULTY CIRCUIT TO BOOM UP
5	FAULTY CIRCUIT TO BOOM DOWN
6	FAULTY CIRCUIT TO BOOM CW
7	FAULTY CIRCUIT TO BOOM CCW
8	FAULTY CIRCUIT TO BOOM EXTEND
9	FAULTY CIRCUIT TO BOOM RETRACT
10	FAULTY CIRCUIT TO PUMP RELAY

ERROR CODE NUMBER IS THE NUMBER OF RED LIGHT BLINKS BETWEEN EVERY PAUSE.

TRANSMITTER SPECIFICATIONS:

FCC ID: P4U-MNTA1 IC: 4534A-MNTA1
Power supply: 4 AA batteries
Operating temperature: -40˚C to +85˚C
Storage temperature: -55˚C to +100˚C
RF Frequency: 902-928 MHz RF Transmit power (EIRP): 10 mW

RECEIVER:



RECEIVER ERROR CODE CHART

ERROR CODE	PROBABLE CAUSE
1	NO RF COMMUNICATION LINK
2	FAULTY CIRCUIT TO WINCH UP
3	FAULTY CIRCUIT TO WINCH DOWN
4	FAULTY CIRCUIT TO BOOM UP
5	FAULTY CIRCUIT TO BOOM DOWN
6	FAULTY CIRCUIT TO BOOM CW
7	FAULTY CIRCUIT TO BOOM CCW
8	FAULTY CIRCUIT TO BOOM EXTEND
9	FAULTY CIRCUIT TO BOOM RETRACT
10	FAULTY CIRCUIT TO PUMP RELAY

ERROR CODE NUMBER IS THE NUMBER OF RED LIGHT BLINKS BETWEEN EVERY PAUSE.

CRANES WITH ATB AND OVERLOAD SWITCH

S1 OVERLOAD PRESSURE SWITCH

S2 ATB (ANTI TWO BLOCK) SWITCH

RECEIVER SPECIFICATIONS:

FCC ID: P4U-MNTA2 IC: 4534A-MNTA2
Power supply voltage: 9-30 VDC
Operating temperature: -40˚C to +85˚C
Storage temperature: -55˚C to +100˚C
Outputs: 5.0A each, 20A Max, sourcing
RF Frequency: 902-928 MHz

OPERATION

- Power must be applied to the receiver module for the system to work.
- Releasing the E-STOP will turn on the transmitter. Pressing the E-STOP will turn off the transmitter. Pressing the E-STOP will also turn off all outputs as a safety feature. If the transmitter goes out of range for more than 2 seconds, all outputs will turn off as a safety feature.
- To save battery life, the transmitter will turn off when it is idle (no functions are used) for period greater than 15 minutes, irrespective of receiver status. The user must press and release the E-STOP at this point to restore transmitter operation.

INDICATOR LED's

- The transmitter has two indicators, the red BATTERY indicator and the green TRANSMIT indicator. The green TRANSMIT indicator blinks rapidly whenever there is communication between the transmitter and the receiver. It will blink slowly when no functions are used.
- The red BATTERY indicator starts blinking once every second when the battery voltage is low and requires batteries replacement.
- The transmitter & receiver modules can identify problems with the system in the form of an error code. Check the red indicator to diagnose system problems. Then, refer to the ERROR CODE CHART in this manual for explanation of the error codes. The green LED indicator will blink on the receiver during active operation.

TRANSMITTER AND RECEIVER SYNCHRONIZATION

Each radio remote system is designed to operate with a unique radio ID code and RF channel sequence. Each receiver is programmed to respond *only* to the transmitter with the correct ID code/RF channel sequence for which it is set. This feature allows multiple systems to work in close proximity to one another without interference.
In the event that a transmitter becomes damaged and a new one is needed, the receiver can be reprogrammed to respond to the new transmitter. To teach the ID code to the receiver, use the following procedure. ***Please note that if this procedure is interrupted before it has completed, the system may have intermittent operation:**

1. Turn the transmitter and receiver off
2. Press and hold the BOOM RAISE AND BOOM RETRACT switches
3. Release the E-STOP. Wait until the green LED begins blinking
4. Release the switches. Both LEDs should blink at this point
5. Apply power to the receiver. The green LED should go from steady to blinking on the transmitter
   On older model receivers, Place a jumper across the TEACH ID jumper inside the receiver. The green LED will go from blinking to steady. Remove the jumper and store it on one pin
6. Teach complete

SLEEP TIME:

All transmitters have the ability to change the sleep time from the default to user's preference. The transmitter is factory set to turn off (sleep) after 15 minutes. To change the time the transmitter waits before going to sleep, use the following procedure:

1. With the transmitter off, hold BOOM RAISE, WINCH UP, BOOM CCW, BOOM EXTEND, release E-STOP and keep holding the switches for couple of seconds and release.
2. At this point, both lights will blink together slowly.
3. On the transmitter, press one of the following switches to adjust the sleep time:
   - BOOM LOWER = 15 minutes
   - WINCH DOWN = 30 minutes
   - BOOM CW = 60 minutes
   - BOOM RETRACT = 120 minutes
   - BOOM RAISE = Disabled
4. Sleep time programming complete.

CLONING:

WARNING! - This feature can pose a safety hazard for operators if both transmitters are used simultaneously- use with CAUTION!

Occasionally, it is desirable to have more than one transmitter work with a single receiver. This is accomplished by a process called cloning. Cloning allows an additional transmitter (B) to have the same ID code as the original transmitter (A). If this feature is desired, use the following procedure:

1. Make sure both transmitters and the receiver are off
2. On Transmitter A, hold switches BOOM RAISE, BOOM RETRACT, release E-STOP and keep holding switches for couple of seconds and release. Green and red LEDs will blink together at this point
2. On Transmitter B, hold switches BOOM LOWER, WINCH UP, BOOM CCW, BOOM RETRACT, release E-STOP and keep holding switches for couple of seconds and release. Green and red LEDs will blink together at this point
3. Wait for few seconds until the green LED starts to blink for Transmitter A, which indicates Cloning success.
4. Turn both the transmitters off
5. Synchronize one of the transmitters to the receiver using SYNCHRONIZING TRANSMITTER AND RECEIVER instructions above

If the cloning feature has been invoked and is no longer desired, the ID code of one of the transmitters needs to be changed. This will unclone the transmitters.
If this is desired, use the following procedure:

1. Make sure the transmitter is off.
2. Press and hold switches BOOM LOWER, WINCH DOWN, BOOM CW, BOOM RETRACT and release E-STOP and switches after couple of seconds. LEDs will start toggling.
3. Press any switch and release, GREEN LED should be blinking rapidly.
4. ID change Sequence complete.

TITLE: SALES KIT, MINI ON/OFF GUIDER CRANE					
COMPANY/DBA:					
CAD DRAWING DO NOT REVISE MANUALLY					
SCALE: FULL	DRAWN: BG	DATE: 04-29-24	CHECKED:	APPROVED:	DRAWING NO.: 3A-122-1-E-3A