

AS-2000K

* Patent 6,900,603

Wireless Remote Control System for one 12volt dc motor

INSTALLATION PROCEDURE

The receiver box should be located in an area where the on/off switch will be accessible. Mounting the receiver box within cabinetry works well. However, if you are mounting the box within a steel compartment it is recommended that you drill a hole in the steel and let the antenna hang out. Typical range with the wireless key fob is 50-100 feet, depending on where the receiver box is mounted.

All electrical connections that are made to the receiver box should be made with proper connectors. All wiring should be routed in areas that will protect it from road hazards and sharp edges. The receiver box should be installed so that the electrical connections are fully insulated and protected from objects that may come in contact with them causing an electrical short. All connecting wires should be either 10 or 14-gauge stranded copper wire were specified.

BATTERY WIRING

- 1 RED** (Main 12volt +dc power) - Connect a 10-gauge red wire with a **20 to 30-amp automatic reset breaker** to the red wire from the receiver box and the battery positive terminal. *The reset breaker must be installed within 18" of the battery and may be installed in the battery enclosure or compartment, provided this compartment is well ventilated.*
- 2 WHITE** (Ground 12volt -dc) - Connect the white wire from the receiver box directly to the battery negative terminal. If you need to extend the white wire, do so by using a 10-gauge white wire. *Improper grounding will cause malfunctions. Be sure ground is clean.*

MOTOR WIRING

- 3 YELLOW** (Up) - Cut the wires that connect the motor to the existing wall switch (usually red & white wires). *The existing wires that are still connected to the wall switch will be used in steps 5 & 6.* Now connect the red wire from the motor to the yellow wire from the receiver box.
- 4 RED/YELLOW** (Down) - Connect the white wire from the motor to the red/yellow wire from the receiver box.

MANUAL SWITCH WIRING

- 5 ORANGE** (Up)(SPDT)(12volt +dc) - Connect one of the 14-gauge manual switch wires from step 3 to the orange wire from the receiver box. *The manual / internal wall switch must be a normally open momentary type switch. A SPDT (Single Pole Double Throw) switch that is closed/open/closed is recommended. You can also use two SPST (Single Pole Single Throw) switches, but make sure these switches are also normally open momentary switches. The manual switch must be located so that positive 12volt dc power can be run to the switch. This is something that has probably already been done at the manufacturing level.*
- 6 BROWN** (Down)(SPDT)(12volt +dc) - Connect the other 14-gauge manual switch wire from step 3 to the brown wire from the receiver box.

* When testing, if the key fob or manual switch has the application moving in the wrong desired direction, then reverse the connection of the wires coming from the receiver box.

OPERATION

- Turn the on / off switch to the on position, to activate. This switch should be in the off position when the unit is not in use.
- On the Key Fob, depress and hold button 1 to operate the motor in one direction (ex. Up). Depress and hold button 2 to reverse the motors direction (ex. Down).
- The manual switch will function the same as the key fob buttons.
- Care should be taken not to overdrive the application. When the application reaches the end of travel, **release the button or switch**.
- In the event the application would need to be manually cranked, it may be necessary to unplug the motor wires from the receiver box, previously described in steps 3 & 4. This is because, some motors will create excessive drag in the system when manually cranked and by unplugging the motor wires it will make it easier to operate.



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For further assistance, please feel free to contact us.

AS-2000K

Wireless Remote Control System

Red 12 Gauge

Auto

Reset Breaker
(12VDC Positive)

White 12 Gauge

Ground Wire

From Vehicle
(12VDC Negative)

Orange 16 Gauge

Interior Momentary
Rocker Wall Switch

(Up)/(SPDT)
(12VDC Positive)

Brown 16 Gauge

Interior Momentary
Rocker Wall Switch

(Down)/(SPDT)
(12VDC Positive)

Red/Yellow 12 Gauge

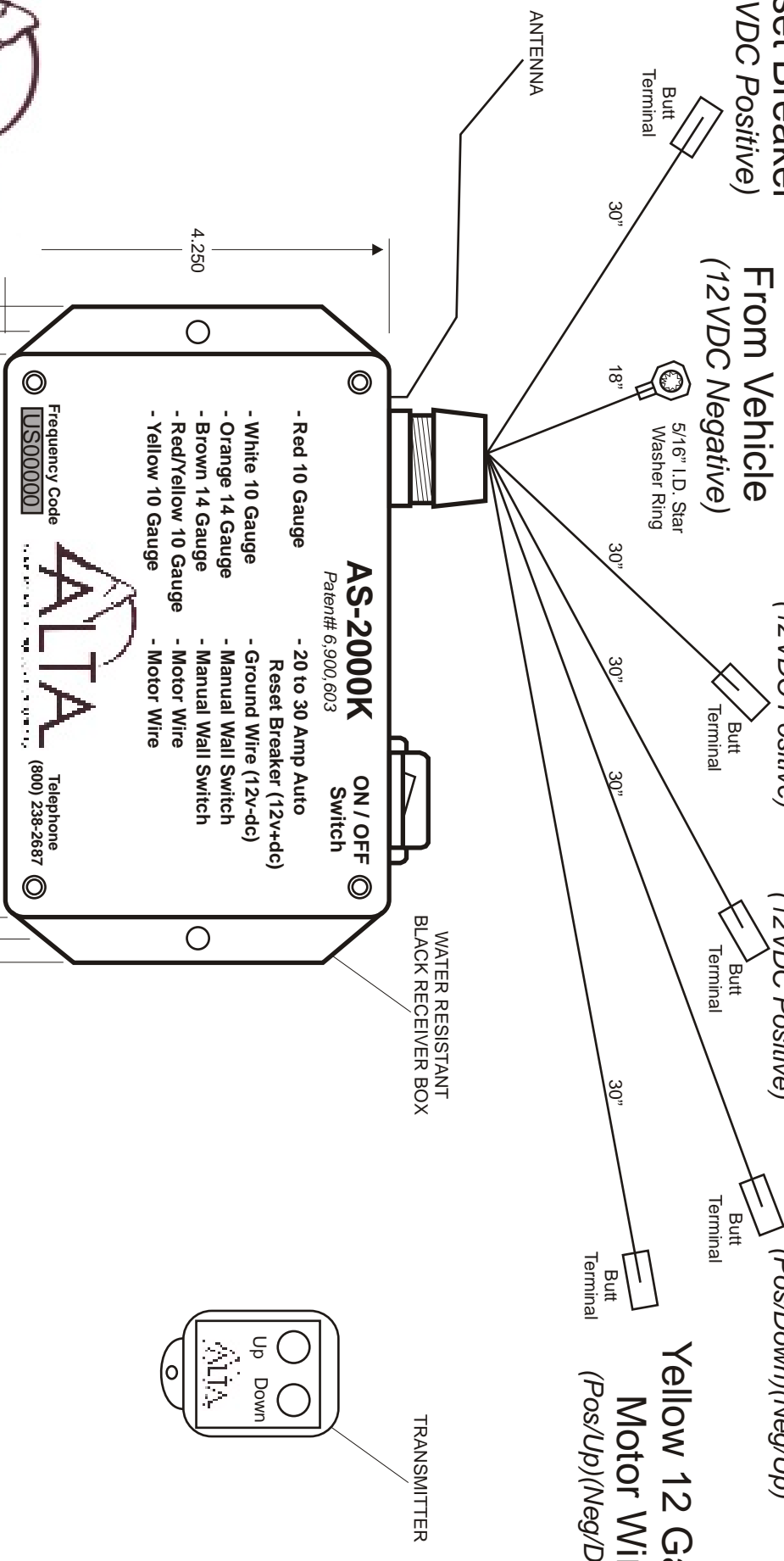
Motor Wire

(Pos/Down)(Neg/Up)

Yellow 12 Gauge

Motor Wire

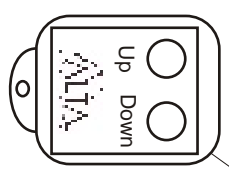
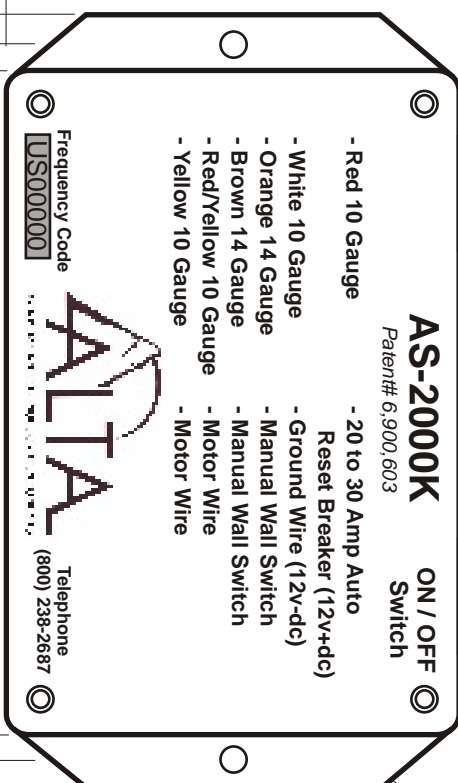
(Pos/Up)(Neg/Down)



WATER RESISTANT
BLACK RECEIVER BOX

TRANSMITTER

- AS-2000K**
Patent# 6,900,603
- Red 10 Gauge
 - White 10 Gauge
 - Orange 14 Gauge
 - Brown 14 Gauge
 - Red/Yellow 10 Gauge
 - Yellow 10 Gauge
 - 20 to 30 Amp Auto Reset Breaker (12v+dc)
 - Ground Wire (12v-dc)
 - Manual Wall Switch
 - Manual Wall Switch
 - Motor Wire
 - Motor Wire



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