

X-PANDR Box Operation

Last Update: July 27, 2022



COMPANY PROPRIETARY

Your X-PANDR™ BOX is an extremely versatile training and educational aid. Multiple combinations of outputs can be selected suitable for use in a classroom or actual field training environment. Operating instructions of the X-PANDR BOX, XP-357™ and X-CAP™ Transmitters are listed below.



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X-PANDR BOX COMPONENTS

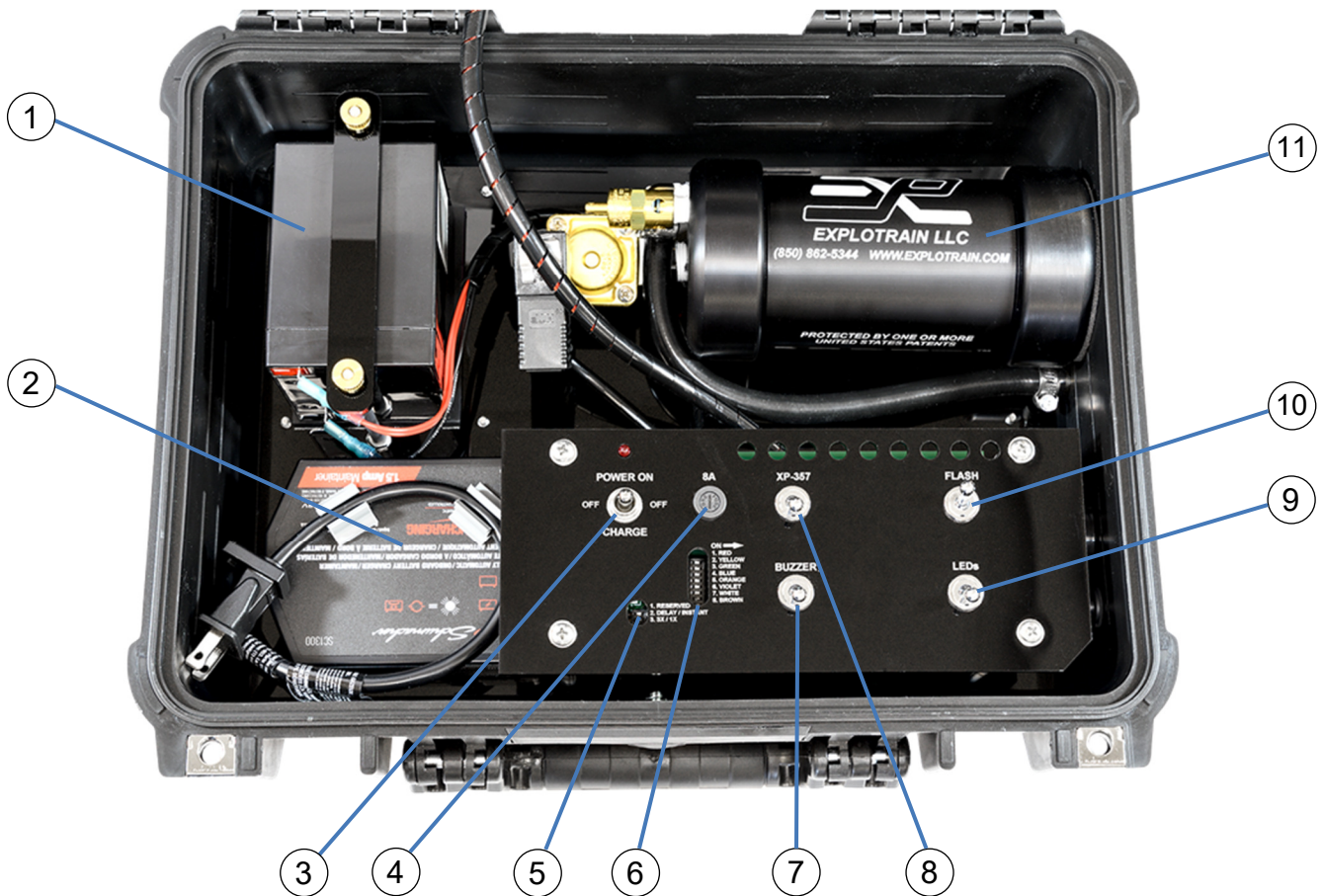


FIGURE 1

- | | |
|---------------------------------|-------------------------|
| 1. Rechargeable Battery | 7. Buzzer Output Switch |
| 2. Battery Charger | 8. XP-357 Output Switch |
| 3. Main Power Switch | 9. LED Output Switch |
| 4. 8A Fuse | 10. FLASH Output Switch |
| 5. Repeat/Delay Mode DIP Switch | 11. XP-357 Device |
| 6. X-CAP Color DIP Switch | |

X-PANDR BOX EXTERNAL CONNECTONS

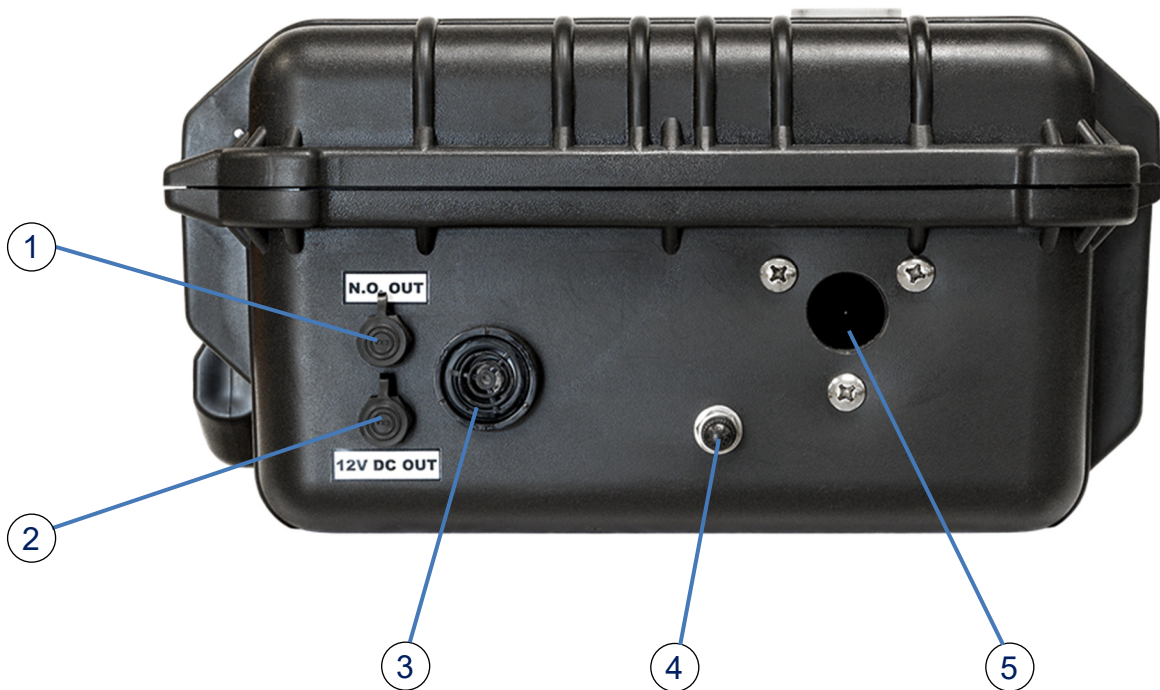


FIGURE 2

- | | |
|------------------------------|------------------------|
| 1. Normally Open Output Plug | 4. Schrader Fill Valve |
| 2. 12VDC Output Plug | 5. XP-357 Exhaust Port |
| 3. Buzzer Output | |

X-PANDR BOX OPERATION

Your **X-PANDR BOX** uses an X-CAP Transmitter to initiate any of several Outputs:

- 12 Volt DC (requires Output Cable)
- Normally Open Contact Closure (requires Output Cable)
- **BUZZER***
- **LEDs** Flash (Top Single LEDs) *
- **FLASH** Bang Simulation (XP-357 and Top LED Arrays)*
- **XP-357** (charge before use, see below)*

* User Selected Outputs

OPERATIONAL STEPS:

1. Ensure 12 Volt Battery is Fully Charged (see Charging Battery section)
2. Turn MAIN POWER Switch to POWER ON position (red LED illuminates)
3. Select desired Repeat and Delay Modes (see below)
4. Select desired Output(s): XP-357, Flash, Buzzer, or LEDs
5. Select desired X-CAP Color(s) (see below)
6. Trigger X-PANDR Box with X-CAP Transmitter (see below)

Setting the Repeat and Delay Modes

Use the three position DIP Switch to set the Repeat and Delay Modes of your X-PANDR Box. Note: The DIP Switch #1 has no function and is Reserved for future use.

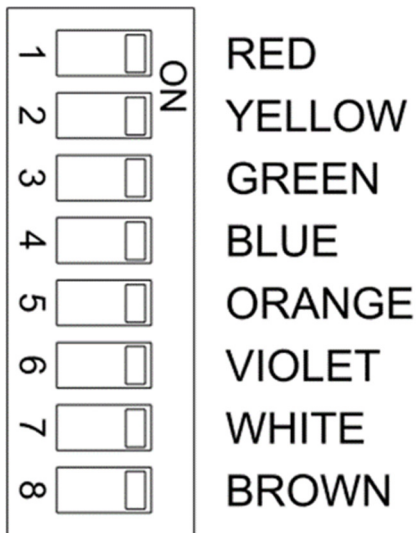


Set the DIP Switch #2 to the right (ON) for an instantaneous response or to the left (OFF) for a randomized 1.5 - 3.0 second delay of selected Output(s). This is typically used for Flash Bang simulation to simulate the fuse delay of a flash bang grenade.

Set the DIP Switch #3 to the right (ON) for a single repetition or to the left (OFF) to repeat selected Outputs three times.

Selecting X-CAP Transmitter

X-CAP Transmitters are available in eight different colors as denoted by the colored lead wires. You may set your X-PANDR Box to receive only certain colors of X-CAPs. Slide the DIP Switch corresponding to the desired color to the right (ON) to receive that color. Default from the factory is all colors turned ON. Refer to the diagram below:



X-CAP Transmitter

The X-CAP Transmitter transmits a signal to the X-CAP Receiver and is intended primarily to be used in training aids simulating explosive devices as a substitute for a blasting cap or detonator in actual circuitry. The X-CAP transmits at less than 1 mW and requires an input of 3.5 to 13 volts DC for a minimum of 8 mSec to function. Higher voltages may be used, but this type of operation can dramatically shorten the life of your transmitter.

Connecting the X-CAP Transmitter

1. Connect the leads of your X-CAP Transmitter to your circuit. X-CAP Transmitters are not polarity sensitive.
2. The X-CAP will transmit when your circuit supplies the voltage signal as described above.

Charging the Battery

1. To recharge the 12-volt battery turn the MAIN POWER Switch to **CHARGE**.
2. Plug the internal Battery Charger into a standard 110-volt outlet.
3. LEDs on the Battery Charger will indicate its status:
 - Red Solid - Charging
 - Red Flashing - Reversed connections or bad battery
 - Green Solid - Fully charged

XP-357 OPERATION

The XP-357 is already hardwired for proper operation in your X-PANDR Box. Simply select the **XP-357** Switch to use the XP-357 as one of the Outputs.

The XP-357 utilizes the rapid release of compressed air or CO2 to create a loud report and tuned shockwave effect.



WARNING: Compressed Air Hazard - Do not point toward any personnel when

1. Fill the XP-357 between 100 and 150 psi via the brass Schrader Fill Valve on the outside of the X-PANDR Box using any standard air attachment. *Fill time should take only a few seconds when using a pressurized source. Fill time from a compressor without a reservoir may take longer depending on the capacity of the compressor.*
2. If the XP-357 is removed from the X-PANDR Box, it will be necessary to connect two wires to the DIN connector terminals where the Violet and Black wires were disconnected when removing the XP-357 from the X-PANDR Box. To trigger the XP-357, apply 9-12 Volts DC to these two wires to open the solenoid valve to fire the XP-357. The valve is not polarity sensitive. *When fired, the XP-357 will immediately release the compressed gas resulting in a loud report and shock wave from the Exhaust Port. The shock wave can be quite forceful at close distances, Use Caution When Used In Close Proximity to Exposed Skin or Tissue.*
3. The XP-357 can immediately be refilled and re-fired using steps 1 and 2 above.



PLEASE NOTE THE FOLLOWING:

The XP-357 may be removed from the X-PANDR Box if desired.

If charged to over 150 psi, the Relief Valve will release and relieve the internal pressure to prevent over pressurizing the XP-357.

Three 1/4-20 threaded bolt holes are provided on the front of the XP-357 for mounting or attachment of an optional FX Attachment or Deflector Plate.

The XP-357 will experience some recoil when fired. Be sure to securely restrain the XP-357 before firing.

The XP-357 can be connected to a continuous compressed gas supply and will automatically recharge once fired.

Several different triggering options and accessories are available from Explotrain.

If dirt or debris enter the Exhaust Port opening, the Piston inside the XP-357 may not seal properly and the XP-357 cannot be charged. Keep the opening area of the XP-357 as free of dirt and debris as possible.

If you have any questions, concerns, or would simply like to talk to us about using your X-PANDR BOX safely and effectively, please contact us at 850 862-5344 or information@explotrain.com