



DANGER ! HAZARD !

VERY IMPORTANT!!!!

DO NOT DRILL INTO THE POWERBOX

***HAZARD of ELECTRICAL SHOCK
FROM AC POWER & DC BATTERY POWER
& 125 PSI COMPRESSED AIR TANK***

The bottom area, sides, and upper edge saddle compartments of the POWERBOX are filled with electronics, AC electrical circuitry, a 3 gallon air pressure tank, a high powered battery system and other special components. Any breach of these components could electrocute, cause a fire, cause a chemical spill or even explode, causing injury or even death. Do not drill into or penetrate the POWERBOX in any way. Opening up or penetrating the POWERBOX will void the warranty.

Customer must use the existing mounting holes inside the POWERBOX saddle compartments or the Chest 'L' Brackets for attachment of the POWERBOX to the vehicle.

Installation of this system should be done by a professional. Any POWERBOX system that is not properly installed shall void any warranty and could cause failure of the system, along with physical harm to the user and the vehicle. CIC POWERBOX LLC shall not be held liable for any occurrence of injury or damage to property for an improper installation.

IF YOU ENCOUNTER ANY PROBLEMS DURING INSTALLATION PLEASE CONTACT CIC POWERBOX

620-704-1706



Installation Manual & Operational Test

It is very important that you read this in its entirety.

Your CIC POWERBOX is relatively easy to install. It should only take about 1 hour for installation. We recommend that the POWERBOX be installed by 2 persons, due to its weight and for easier installation.



This manual covers the full sized cross-over saddle style POWERBOX and the new chest style POWERBOX. Both POWERBOXES are designed to be mounted in the back of a regular Pick-up Truck or other vehicles in a similar manner.

The POWERBOX weighs approximately 300 pounds. Please use care in moving and installing your POWERBOX. Any hoist system or lifting system should use the underneath/bottom side of the POWERBOX or underneath the saddle areas of the crossover style POWERBOX as a connecting point for mechanical strength. If lifting either POWERBOX by hand, please use care and proper lifting techniques.



For the Chest style units, only lift from the bottom of the box due to their weight. Do Not lift solely from the side mounted handles or the 'L' mounting brackets.

The crossover POWERBOX should be attached to the vehicle using the supplied J bolts, through the slots provided inside the two saddle compartments on each end of the POWERBOX. For the chest model, bolt directly to the bed through the two side mounted 'L' brackets. The right side 'L' mounting bracket is the negative connection point for the Chest style POWERBOX.



HAZARD - AC ELECTRIC SHOCK, COMPRESSED AIR, CHEMICAL SPILL
Please use caution when using this product as the POWERBOX produces AC electrical power and compressed air power that could cause injury or death if used improperly. Do not drill or cut into your POWERBOX to avoid chemical spill from your battery system.

Installation tools that may be required:

Flat head & Philips screw driver, adjustable wrench, pliers, wire stripper pliers, power drill and set of steel drill bits, drill gun or drill with nut driver sockets (if drill screws are used), digital volt meter, cable ties, jack, lift or hoist for moving box into position.

Please read the helpful operation tips at the end of this document.



Before installation: Please make sure:

- The bed of the truck is empty allowing box installation.
- All POWERBOX control switches in the "OFF" position.
- Lid closed for ease of movement and control.
- Move and handle the POWERBOX with care as to not drop or damage it or pull/ damage the hook-up wires. Do not cut, pinch, or kink the hook-up wires exiting the POWERBOX.

Installation:

Place the POWERBOX in the bed of the pickup long ways, with the exposed wires facing the vehicle cab (front). Look for an opening in front passenger corner of the truck bed, either on the floor or on the cab back side wall. Most vehicles have rubber boot openings in them already to allow for drainage or wire feed throughs. If you cannot find any openings, carefully drill through the bed chassis at an appropriate point to allow feed through of the POWERBOX cables to the vehicle power system. Uncoil the split loomed heavy red marked (battery positive wire) and blue (may be green wire) hook-up wires. The wires exit the right hand side of the POWERBOX, or when installed, the passenger's side of the vehicle. Locate the vehicle battery or vehicle battery power system positive circuit point that you will be making contact with. Run the red and blue wires through the vehicle chassis in a manner to avoid the vehicle gas tank, drive shafts, and the exhaust assembly, while spanning the distance to the battery positive connection point. Please use the protective split loom corrugated plastic protective wire cover sheath throughout length of wire being run. Especially in areas where there could be vibration or any rubbing action which would cause wear to the wires and damage to the insulation causing a short circuit. If desired, foam rubber pads can be placed under the POWERBOX saddle sides. The pads can be stuck to the truck bed or they can be stuck to the bottom side of the POWERBOX saddles. User's choice.

Set the POWERBOX in place in the back of the truck. Normal installation places the POWERBOX directly behind the cab, centered properly and butting up against the bed wall adjacent to the cab of the vehicle. Make sure that you have adequate overlap of the saddles onto the bed sidewalls to insure proper support.





Open the POWERBOX lid. In the saddle compartments on either side, use the "J" bolts to attach to the bed and tighten down. Drill screws can also be used to attach the POWERBOX to the vehicle bed. Attach in a manner to negatively ground the POWERBOX to the bed.

Electrical Hook Up: The POWERBOX has 3 electrical points of contact:

- Positive Red Battery Cable Wire (20 Ft heavy gauge power cable)
- Fuse Box Blue control wire (18 AWG Blue (or green), 20 ft long)
- Negative Ground Cable (4 ft.)



There are two exposed (and coiled) wires that must be connected to the vehicle power system for the proper operation of the POWERBOX. The Positive Red wire and Fuse box blue wire. The Red Battery Cable for hook up to Positive terminal on vehicle battery or at 12 volt + positive battery circuit connection point.

DO NOT HOOK RED POSITIVE BATTERY CABLE TO NEGATIVE TERMINAL.

Using the heavy gauge wire connector included, this positive red wire can be hooked directly to the vehicle battery, or to the positive lead on the vehicle starter motor. Some new vehicles have a secondary battery power connection point 12-24" from the battery itself that allows positive hook up to the battery. The heavy Red cable must be properly connected



to the vehicle battery circuitry as it can provide a great deal of amperage for emergency boost starting of vehicles. A fusible link is also supplied for use at the customer's discretion.



The Blue Control Wire is normally run to the vehicle fuse box and must be attached to a vehicle powered accessory that is only "ON" when the key is in the "ON" position... such as the stereo, cigarette lighter, or any other accessory that is "ON" when the vehicle key is "ON". Some newer vehicles have an accessory slot in the fuse box that provides 12 volt battery power when the key is turned "ON". Please use a volt meter to test the circuitry and verify, prior to hook up.



Install the negative ground connector cable (included) to insure that the POWERBOX is making electrical ground contact with the truck chassis. Mount the cable to the exposed grounding bolt on the side of the box near the exposed wires exiting the POWERBOX or to the mounting L brackets on the Chest style unit and then attach it to the chassis of the vehicle. Your POWERBOX must be grounded in order for it to work properly.





Please make certain that all wires are properly attached and strain relieved. Please consider long term effects of vibration and wear and tear on the wires and make sure that your installation of the wires will not become damaged in the protective insulation sleeve on the wires over time, allowing direct contact of the wires with the chassis of the vehicle. This may cause a direct electrical short and possible arcing or fire.

System Test:

Once the POWERBOX is properly installed, run a complete system check.

Lights On: Open the lid and on the passenger's side of the POWERBOX, turn on switch # 3, the third switch from the left, or the switch adjacent to the Light Bulb icon. This is your master light control switch that turns on both lights. You may leave the lights on if it assists you in your installation. Please note that the lights should be turned off prior to shutting the lid. **The lights will not automatically turn off.**

AC Power: On the passenger's side saddle compartment, please make sure that the retractable electrical cord is plugged into the AC outlet and that the red LED on the top of the extension cord is facing up. Turn "ON" the AC power switch # 1. You now have 110V AC Power at the electrical outlet and in your retractable extension cord. The red LED light on your electrical cord connector will be illuminated if the AC power is "ON".

AIR Power: **It is important to note that the compressed air power system uses AC power from the POWERBOX and you must always have switch # 1 AC power turned "ON" before turning "ON" switch # 2 for compressed Air power. Then it is also important to note that once you turn "ON" switch # 2, you must leave it turned "ON" to allow the system to complete a full air charge cycle of 125 psi and automatically shut off. This will take approximately 80 seconds.** Please do not shut off the air compressor pump in the middle of a cycle. Please let it cycle through to full compression and shut down before turning off switch # 2.

If for any reason the air compressor pump fails to start and run, please turn switch # 2 back to the "OFF" position immediately. To reset, turn all switches "OFF" and drain any air pressure in the on-board 3 gallon air system (2 gallon for Chest model) by pulling on the pop off valve ring mounted on the hose reel assembly. When pressure reads zero, you may restart the process by turning "ON" the AC power switch # 1. Wait 4 seconds and then turn "ON" switch # 2 to start the air power. The pump should then start and provide air pressure to the on board air tank.





Retractable Air Hose Reel: The Retractable Air hose reel can be unreeled up to approximately 25 feet. As the reel is unwound, you will hear a pattern of three distinctive clicking noises. The clicking noises are the brake/catch for the reel. If you stop pulling on the air hose in the middle of the clicks, then release the pressure on the hose allowing it to retract slightly, you will lock the reel into position and the hose will not retract. Do not over extend the reel by unwinding the hose all the way. Please leave a minimum of 1/2 a turn of hose on the reel at all times. To retract the hose reel, pull the hose out more past the clicking sound and then release the pressure and walk the hose back onto the reel as it automatically retracts. As the hose re-spools onto the reel, attempt to get an even wrapping of the hose onto the reel, so that it does not rub any other surface inside the POWERBOX impeding hose retraction.



There is an air pressure gauge, an air pressure regulator, and a pop-off pressure valve attached to the side of the hose reel. Use the pressure gauge to read the pressure in the on board air tank system. Use the controllable dial air pressure regulator to set the air pressure you desire to the hose reel assembly. Normally this dial is set to maximum pressure for proper use, but some tools require regulated pressure for proper operation. Trouble shooting; if your air power tool doesn't seem to have the proper power or the air pressure from the hose reels seems to drop very fast during tool use, please check your air pressure regulator to make sure it is set at the proper setting.



Entertainment Power: Switch # 4 on the full sized POWERBOX is the master control for the entertainment system. A music symbol is used as the icon for the switch. Turn "ON" switch # 4 to power the stereo/TV or entertainment system. If stereo/TV does not operate, please make sure to turn "ON" their individual power "ON" buttons. Please make sure that the antenna is completely retracted prior to closing the lid.

Battery Fuel Gauge/Digital Volt Meter (DVM): This will be switch # 4 on the Chest POWERBOX and switch # 5 on the full sized Cross over POWERBOX. The Fuel Gauge will show the reserve power level of your POWERBOX battery system. The DVM will read a nominal 12.5 volts for a normally charged battery. When the vehicle is started and the engine is running, the DVM should read a higher voltage of approximately 13.2 volts. This will verify that the POWERBOX is hooked up correctly to your vehicle power system and is charging the POWERBOX battery when the vehicle motor is running. For most accurate reading, please make sure all other POWERBOX control switches are in their "OFF" position.





Built-in Charger: The built-in charger serves two purposes. It can provide the user a reading of the POWERBOX battery capacity of reserve power and it can recharge the POWERBOX battery if the vehicle motor is not running. If you have drained your POWERBOX battery system and cannot operate your vehicle motor to recharge the system, you can plug in the built-in charger to a home or garage AC outlet to recharge your POWERBOX battery. When plugged in to a wall outlet and powered "ON", set the charger control buttons to 15 amps (or highest amperage) and AGM or Gel cell. Your charger will give you readings, showing you that the POWERBOX battery is now being charged and it will show the percentage of reserve capacity. The charger should completely recharge the POWERBOX battery overnight or in approximately 10 hours. If your POWERBOX doesn't have a Fuel Gauge/DVM built-in to the switch panel as shown on some units, you can check your POWERBOX internal battery anytime by turning "ON" switch # 1 AC Power on your POWERBOX and then plugging in the male plug end of the built-in charge into the retractable electrical cord reel on the passenger side. After the charger powers "ON", push the charger control buttons to start a charge cycle as previously described. This will allow you to read the voltage of the internal battery and after a few seconds the charger will show the percentage (%) of charge remaining in the battery capacity. Unplug the charger when finished and return plug wires neatly.



Key Locks: Key locks on the latches are individual and both latches must be locked individually to insure security. Insert the key into the slot and turn a quarter turn. Please use white lithium lubricant for gears and latching mechanism as needed.

When you have completed your test or completed your work at the job site with the POWERBOX, turn off all switches, retract all cords and hoses neatly and close the lid.

This concludes the operational test of your new CIC POWERBOX.



Now... wherever you go... you'll go with POWER!!!

***375 E 510 Ave
Weir, KS 66781***

CIC POWERBOX, LLC

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Helpful Operation Tips & Functions: ***PLEASE READ– These are very helpful!***

Your POWERBOX has its own built in high-tech battery for operating the POWERBOX independently from your vehicle battery power system. Under normal operation when you start your vehicle, your POWERBOX will automatically connect to your vehicle recharging system and your vehicle will recharge your POWERBOX system battery as your vehicle motor runs and while you drive.

If you have used your POWERBOX for work and have depleted the POWERBOX battery system, you will need to operate your vehicle engine to fully recharge the system. If you are unable to operate your motor or have only driven a short distance at the end of the day, then you can recharge your POWERBOX battery system by simply plugging in the built-in battery charger. Find the black male AC power cord wire located in the saddle compartment on the driver's side of the vehicle. Plug the black wire into any standard home or garage AC Power wall outlet and set the charger to charge at 15 amps or your designated setting, and set the battery type to "gel cell". If the charger cord will not reach, use your 30 foot electrical extension cord. Your system will be easily charged overnight and will be ready for work the next morning.

The AC Power output of the unit is 2,000 watts continuous power with 4,000 watts peak surge power. There are some tools and equipment that pull a drastic amount of in-rush current that can trip the AC power output of the POWERBOX to the "OFF" position. When this occurs there is a moderate beeping alarm that you can hear inside the POWERBOX. To 'reset' the unit, switch # 1 must be turned "OFF" for a few seconds and then switched back "ON" to reinstate AC power. AC powered tools that draw the most power should be turned "ON" first and then other ac powered tools can be switched "ON", until the maximum capacity of the output power is reached. If you deplete the POWERBOX BATTERY SYSTEM and lose AC power, just start your vehicle. You may need to reset your POWERBOX system.

The portable electrical retractable reel extension cord extends and retracts in exactly the same manner as the retractable air hose reel with stop clicks as previously described. The electrical cord reel is removable from the POWERBOX for use on other job site work as required by the user. Just unplug the male plug end of the cord and lift out for field use.

From time to time a bleeder valve or blower type valve will be needed to drain any water condensation from the POWERBOX built-in internal air tank. For best results, drive the vehicle to a location that allows the passenger side of the vehicle to be in a downhill position. Install the bleeder valve into the vertical mounted air coupler near the switch panel. With full pressure in the air tank, direct the valve opening away from the side of the vehicle and turn the bleeder valve knob counter clockwise and allow a good air flow. This will expel any built up water in the system. You should perform this function once, every 60 – 90 days, to ensure little or no moisture in your system. **Note you cannot remove water from your system through the retractable air hose reel.**



Helpful Operation Tips and Functions Continued:

During emergencies like thunder storms, floods, or other circumstances that interrupt AC power to your home, you can use the CIC POWERBOX as your backup generator. Pull your vehicle near your home and Turn "ON" switch number # 1 for AC Power. Pull your 30ft extension cord inside and plug in your refrigerator, TV, a lamp, and even your home phone (if AC powered) to the POWERBOX extension cord. Now you will have light while continuing to watch the weather, track the storm and keep your refrigerator operating normally. If for any reason your POWERBOX AC power kicks out during start up due to high in-rush current, then try plugging in one electrical appliance at a time, starting with the highest power use appliance first. You can also start your vehicle engine to add assist power to the unit, and you will need to run your vehicle engine to recharge the POWERBOX built-in battery system when it has become depleted. Under normal operation, your POWERBOX should run a normal sized refrigerator, a standard sized TV, and a 40 watt light bulb for several hours before needing to be recharged by your vehicle's engine. Your results may vary, depending on your power consumption.

With the system being portable, you can take your vehicle to an area that has no AC electrical power and provide electrical AC current to anyone needing any kind of emergency power. The POWERBOX allows trained individuals to operate items like search lights, communication equipment, metal cutting saws or metal bending jaws for removing injured persons from vehicle accidents and/or structure collapses or you can also power air jacks for lifting vehicles or debris off of injured persons. In the simplest form you can run their refrigerator for a while so that they do not lose their stored food supplies, while recharging their cell phones and computer batteries to help keep them safe.

Do not operate your air compressor system in a manner that requires the motor to run continuously. The pump system should automatically shut down when the system psi reaches 125 psi. If the pump system should be required to operate continuously for more than 10 minutes or in extreme heat conditions, a system failure could occur due to overheating.

Always make sure that when not in use, all the switches on the main control panel are in the "OFF" position. This will ensure that your POWERBOX will be fully charged and ready for operation when the user needs its power functions.

Please take care in operating the CIC POWERBOX. This device creates AC POWER and extreme care should be used to operate any AC powered power tool or device. Please use care in operating all air pressure devices and when airing up tires, large and small.

The signature below confirms that I have read and understood the previous information and that I am aware of the potential hazards of this system.

Customer Signature

375 E 510 Ave
Weir, KS 66781

Date

CIC POWERBOX, LLC

620-704-1706