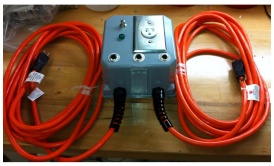

Model Number: Reverse10-20R

Clean Storm Reverse10-20R Power Joiner Step Up Inverter Electric AC Converts Dual 20 amp 115 Volt To allow 230 Volt 3 wire

Manufacturer: Clean Storm

Clean Storm Reverse10-20R Power Joiner / Step-Up 240 Volt Adapter Box
Part Number: Reverse10-20R
The Clean Storm Reverse10-20R is a temporary 240 volt power joiner box designed to combine two separate 115/120 volt circuits on opposite phases to provide 230/240 volt single phase power through a NEMA 10-20R receptacle. This is commonly used when a job site has standard 120 volt outlets available but no dedicated 240 volt outlet nearby.
Key Benefits

- Converts two separate 115/120 volt outlets into usable 230/240 volt single phase power
- Supports equipment up to 20 amps at 230/240 volts when connected to two properly rated 20 amp circuits
- Built with dual 12/3 x 25 ft power cords
- Includes dual 20 amp push-button breakers
- Green phase/voltage indicator light confirms when the correct outlet combination is found
- 6" x 6" x 4" plastic electrical box with rubber feet
- Designed for temporary indoor use when a permanent 240 volt receptacle is not available

Common Applications

- Electric pressure washers
- Vapor steam cleaners
- Wall air conditioners
- Small welders and plasma cutters within amp limits
- Level 2 EV charging equipment within amp limits
- Other 230/240 volt single phase equipment under the rated load

How It Works
Plug each 120 volt cord into a different 120 volt outlet. Press the momentary test button. If the green light turns on, the two outlets are on opposite phases and the box can provide 230/240 volt power. If the green light does not turn on, move one cord to a different outlet and retest.
Not every pair of outlets will work. The two outlets must be on opposite phases. If both outlets are on the same phase, the box will not produce the required 230/240 volt output.
Important Electrical Limits

- If plugged into two 20 amp 120 volt circuits, maximum available output is up to 20 amps at 230/240 volts.
- For continuous use, follow the 80% rule: a 20 amp circuit should normally be

loaded to no more than 16 amps continuously.
• If using two 15 amp 120 volt circuits, available output is limited by the 15 amp circuits.
• Always verify the equipment amp draw before use.

Required Safety Checks Before Use

• Test both wall outlets with a 3-wire receptacle polarity tester before connecting the power joiner.
• Confirm correct voltage before operating equipment.
• Confirm total amp draw with a meter.
• Do not use on GFCI, LDCI, damaged, wet, or outdoor rain-exposed outlets.
• Do not assume equipment is safe to operate just because the plug fits.

Included Features

Model
Clean Storm Reverse10-20R

Output Receptacle
NEMA 10-20R

Input
Two separate 115/120 volt outlets on opposite phases

Output
230/240 volt single phase

Max Rated Output
Up to 20 amps at 230/240 volts when supplied by two proper 20 amp circuits

Box Size
6" x 6" x 4"

Power Cords
Dual 12/3 x 25 ft cords

Protection
Dual 20 amp push breakers

Indicator
Green phase/voltage notification light

Recommended Add-On
Electrical Outlet Receptacle Tester 3 Wire 120 Volt — strongly recommended to verify both wall outlets are correctly wired before use.
Safety Disclaimer
User assumes all responsibility for proper use. It is the user’s responsibility to verify incoming voltage, outgoing voltage, outlet polarity, circuit capacity, equipment amp draw, and correct application before connecting any equipment. Meters are inexpensive; electrical mistakes can be costly and dangerous.
This product is for temporary power use only. For permanent or repeated 240 volt operation, consult a licensed electrician and install the correct dedicated 230/240 volt receptacle and breaker for the equipment being used.
Warranty
Manufacturer 1 year warranty. Optional extended warranty may be available at checkout.

To use simply plug into different standard 120 volt wall outlets and push the momentary button to test voltage. If the green light turns on, you are good to go. Not all outlet combinations will produce the correct voltage so you have to test before each use or each time you take your box to a new location. If you push the voltage test button and the green light does not turn on, simply re-located one of the power cords to a different location and retest. Every job site location has the ability to provide 230 volts. If you use 15 amp 115 v to 120 volt circuits then you will only be able to operate 15 amp 230 volt equipment. If your pressure washer needs 23 amps @ 230 volts and you are plugged into 20 amp 115 volt outlets, you will need to turn the pressure down to lower the amp draw. Just turn the pressure regulator / unloader knob counter clockwise. The less pressure, the less horse power is needed to turn the electric motor and this will lower the amp draw.

Plastic Box is 6" X 6" X 4"
Dual 12-3 X 25 ft power cords with dual 20 amp push breakers.
Green Light Voltage Notification
Rubber feet on bottom of box or hang on the wall.

Until both 120 volt power cords are connected to a 120 volt electrical source, it is electrically isolated from the electrical circuit of the exposed male plug on the 2nd power cord. This protects the user from accidental shock through the exposed male plug contact.
You must test both wall outlets with a receptacle polarity tester before use!

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Electrical Outlet Receptacle Tester 3 wire 120 volt

“Understanding GFCI Limitations with 240V Power Joiners”
Which Power Joiner Do I Need? (Download Comparison Guide)
Owners Manual

Tips: One customer wrote, "I plugged into different walls, not the same outlet, and it did not work."
Answer: This is incorrect step / understanding.
In order to have the power supply box work, it must be plugged into different phases.
There are two phases of power in every home.
Half of all the outlets are on left phase, and the other half is on right phase.
You must land on one of each phase in order for the power supply to work.
This means if I just randomly select two outlets in a home, I could be plugged into: two left side phases, 2 right side phases, or 1 of left + 1 right (correct use of power supply, depress phase locator button on the power supply box and will illuminate bright green on the phase locator light if you plugged in correctly.)
If you look at the breaker panel (photo to the right) and notice the column of breakers on the left side and then a column on the ride side.
The way a breaker box is wired is the top left breaker is left phase, the 2nd from the top left strait down the left column is right phase, 3rd down is left column is left phase, 4th down is right phase. These breakers alternate phase location all the way down each column.
The top right column of breakers works exactly the same way. You have to land on one left phase and and one right phase to make this item work. It is OK to have landed on a pair of outlets that is left and right side and each is positioned anywhere

in the breaker panel.

Since this power supply box will not work with GFCI or LCI outlets you can also replace a GFCI outlet with a standard wall receptacle.
Optionally, if the two breakers you want to use are on the same phase, simply change the location of one of the two breakers to be in a different position in the column. This is very easy to do and only takes a screw driver (see video link below.)
Go outside and turn off the breaker and turn off the breaker that is labeled as ‘main.’ Go back to the garage and take off the garage panel cover. Grab the breaker you want to relocate and simply switch positions with another breaker either one up or one down in the column. You can change the location of the breaker or change the location of the wire in the breaker (your choice.) This will put the breaker on a different phase. Again, see video below on how to do this.
https://youtu.be/BG9I-PokSdI?si=m06267ZWR54Tiknu
and
https://youtu.be/IzTV9t7bnH8?si=p1lgRxxO5gsEvmub

Once you are on different phases, and press the momentary phase location button on your power supply box, the green light will be bright green telling you, you selected one left and one right phase and you are good to use this power supply box below the required amp draw of the wall outlets you plugged into.

Optional factory installed;
Square D HEPD80 Whole Home Electronics Protective Device, AC Surge Protection, Type 1 SPD, 120/240VAC, 1Phase 3Wire, 80kA

HEPD devices protect and provide surge suppression for important items that are not compatible with plug strips such as electric cars, concrete grinders, concrete compression testing equipment, floor sanders, concrete dust and hepa vacuums, laser and light show equipment, washers, dryers, refrigerators, stoves, heating and air conditioning equipment, and lighting.

Availability: This product was added to our catalog on Wednesday 30 August, 2017