



**PURKEYS**

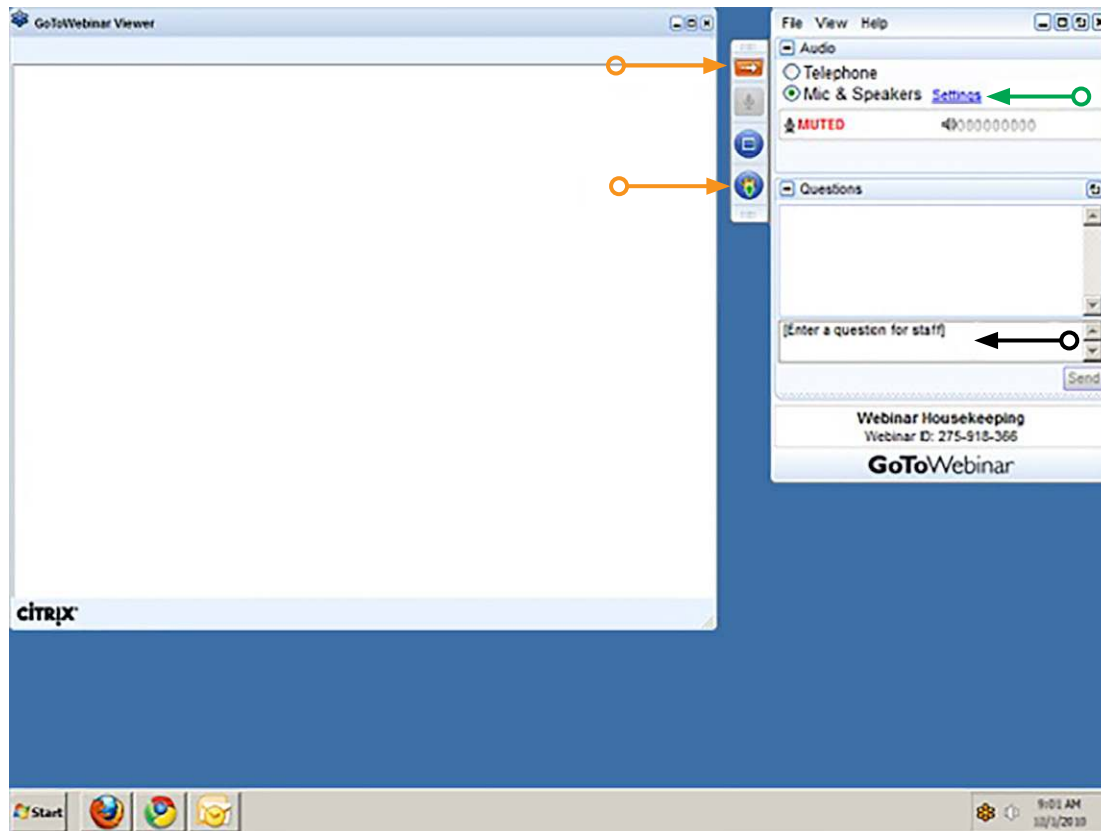
# How to Make Electric Pallet Jack Batteries More Reliable

*WATT Keeps You Trucking*

August 2015

# House Cleaning

**REMINDER:**  
**This Webinar is being Recorded**  
**Please Turn Off Cell Phones**



# About the Presenter



## **Bruce Purkey | Founder & Chief Creative Engineer**

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Bruce has over 40 years' experience servicing fleets' electrical needs. Widely recognized as the authority on electrical issues in the heavy duty trucking industry, Bruce has worked closely with some of the largest fleets in North America.

Several of his inventions have been awarded US patents and earned the Technology & Maintenance Council's Silver Spark Plug award, one of the highest honors awarded to members.

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# Electric Pallet Jacks

## Why to have an electric pallet jack in a trailer?

- It makes loading and unloading more efficient.
- It allows for an expanded driver pool.



# Electric Pallet Jacks

## Common issues with electric pallet jack batteries:

- Extreme depth of discharge
- Must take out of the trailer to charge
- Ties up warehouse space when charging



# Purkeys' TAPS

## The solution:

Purkeys Trailer Auxiliary Power System, or TAPS , can eliminate charging issues and extend an electric pallet jack's battery life.



# Purkeys' TAPS

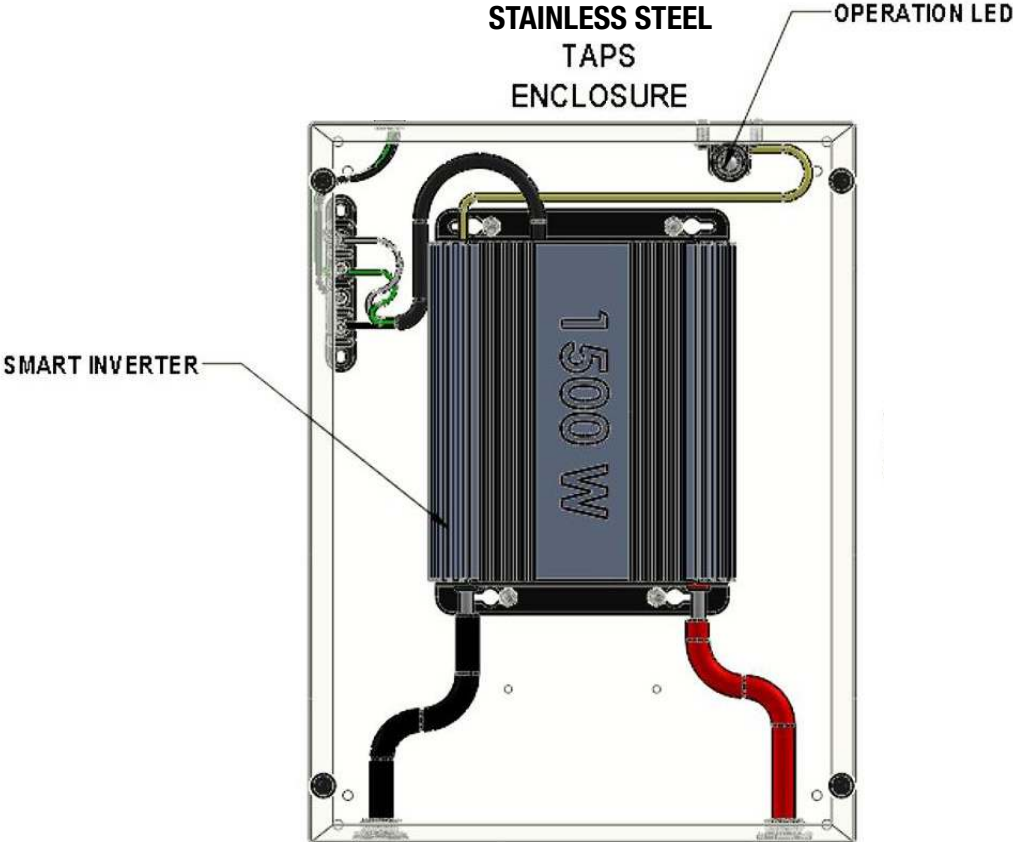
## How the TAPS Works:

- Converts DC power from the tractor to 110v AC power in the trailer
- 110v AC outlet charges electric pallet jacks
- Only charges when the tractor is running
- Keeps the tractor's and trailer's electrical systems balanced



**= Opportune  
Charging**

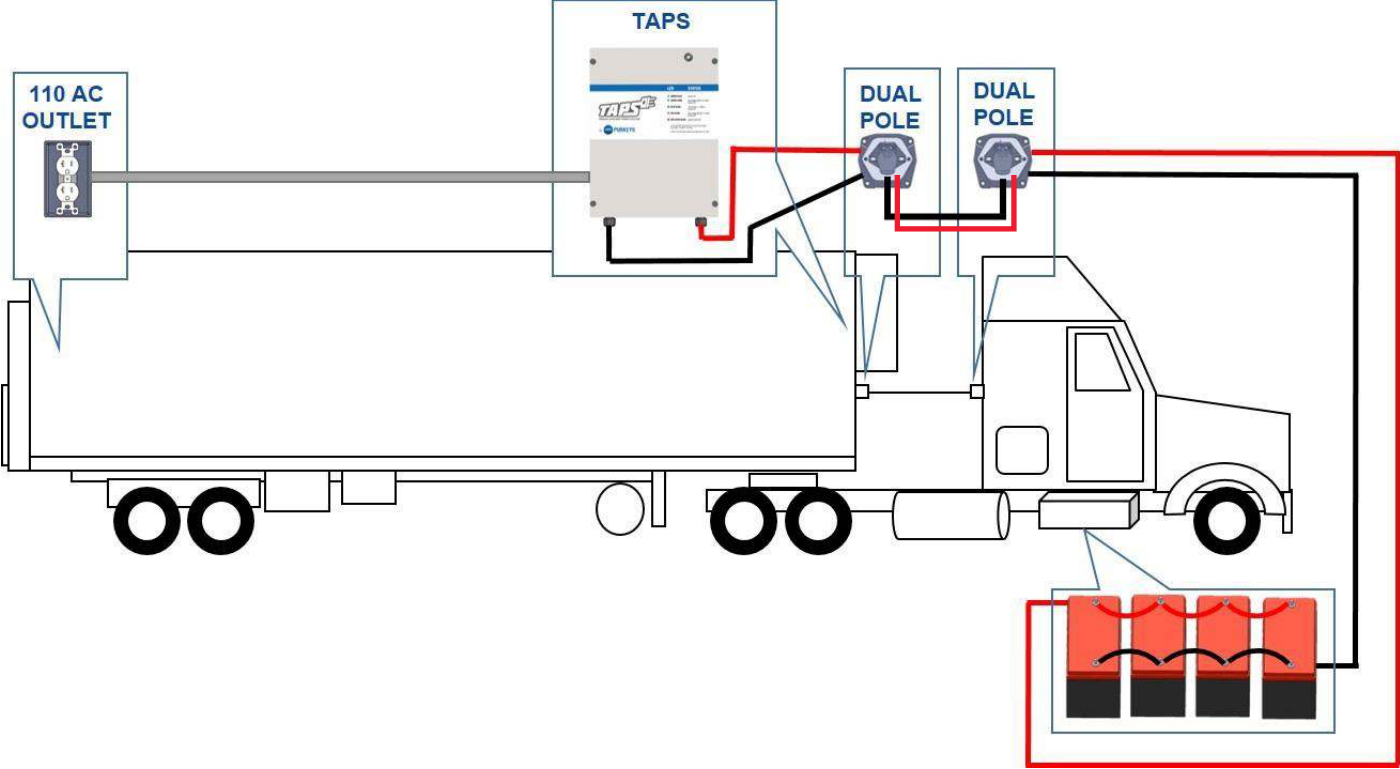
# Purkeys' TAPS





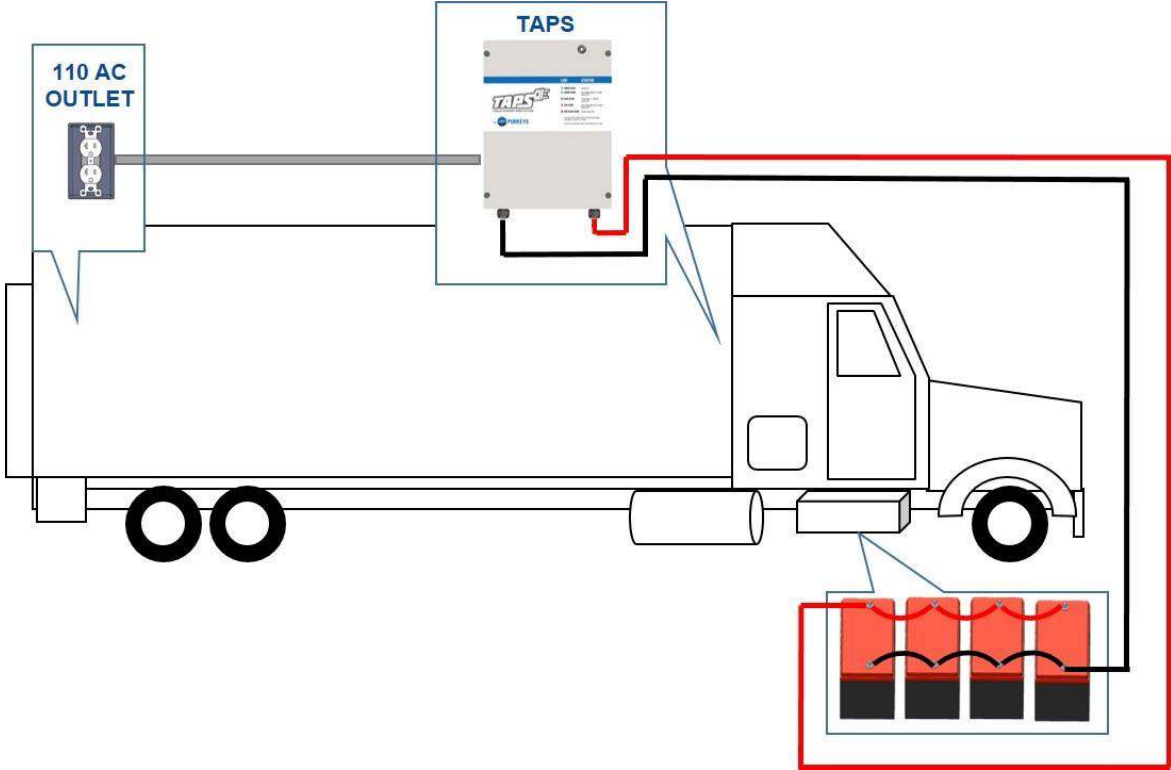
# Purkeys' TAPS

## DUAL POLE CONFIGURATION



# Purkeys' TAPS

## STRAIGHT TRUCK CONFIGURATION



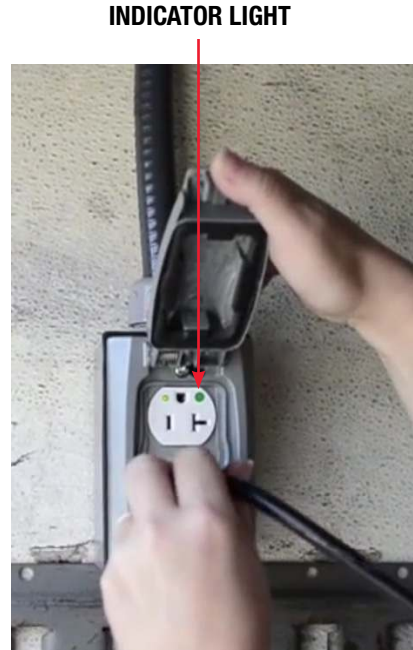
# Purkeys' TAPS

LED STATUS	CONDITION	ACTION NEEDED
Green LED Solid	Input Voltage at the positive and negative post on the inverter is above 13.2 volts. Vehicle battery at a good state of charge	Normal operation, no action required
Green LED Blinking	Input Voltage at the positive and negative post on the inverter is above 12.4 volts. Vehicle battery at a good state of charge	Start the vehicle to raise the voltage above 13.2 volts
Blue LED Blinking	Timing State	Wait one minute
Red LED Blinking	Input Voltage at the positive and negative post on the inverter is below 12.4 volts. Vehicle battery at a low state of charge	Start the vehicle to raise the voltage above 13.2 volts
Red LED Blinking Rapid	The inverter switch is in the off position	Turn the inverter switch to the on position

# Purkeys' TAPS

## TAPS has a plug and play design:

- Mount box
- Route cables to the DC side
- Route the liquid tight AC cables to back of the trailer
- Mount the receptacle



# Purkeys' TAPS

## The advantages

- TAPS provides extra charging opportunities
- Reduces depth of discharge
- Longer run time



# Questions & Answers

# Thank you!

Thank you for attending this  
webinar on How to Make Electric  
Pallet Jack Batteries More Reliable